Mamre Road Data Centre Campus
706-752 Mamre Rd Kemps Creek, NSW

Plan Project Management

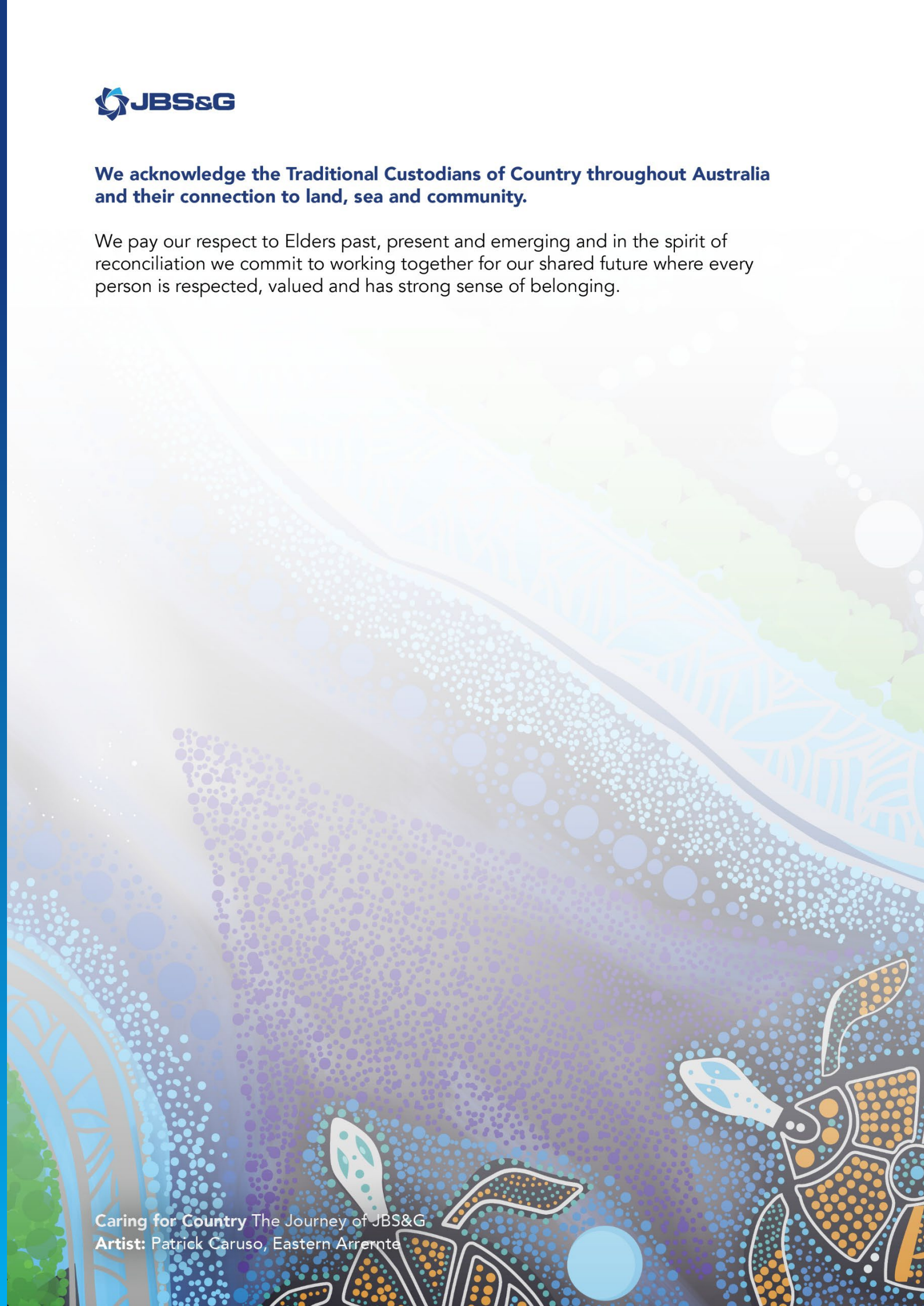
Detailed Site Investigation

70548 | 170,476 (Revision 0)

1 December 2025

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

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



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Abbreviations

Term	Definition
ACM	Asbestos Containing Material
AEC	Area of Environmental Concern
AF/FA	Asbestos Fines/Fibrous Asbestos
AHD	Australian Height Datum
Aliro	Aliro Management Pty Ltd
ASS	Acid Sulfate Soils
AST	Aboveground Storage Tank
AQ	Asbestos Quantification
bgs	Below Ground Surface
BOM	Bureau of Meteorology
BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
COPC	Contaminants of Potential Concern
Council	Penrith City Council
CSM	Conceptual Site Model
CT	Contaminant Threshold
DGI	Data Gap Investigation
DLWC	Department of Land and Water Conservation
DP	Deposited Plan
DPI	Department of Primary Industry
DPIE	Department of Planning, Industry and the Environment
EPA	Environment Protection Authority
ESA	Environmental Site Assessment
GSW	General Solid Waste
ha	Hectare
JBS&G	JBS&G Australia Pty Ltd
LEP	Local Environmental Plan
LOR	Limit of Reporting
LPI	Land and Property Information
NEPC	National Environment Protection Council
NEPM	National Environment Protection Measure
NSW	New South Wales
OCP	Organochlorine Pesticides
OEH	Office of Environment and Heritage
PAH	Polycyclic Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls

PFAS	Per and Polyfluoroalkyl Substances
RAP	Remedial Action Plan
RPD	Relative Percent Difference
SEPP	State Environmental Planning Policy
SSDA	State Significant Development Application
sVOC	Semi Volatile Organic Compounds
TPH	Total Petroleum Hydrocarbons
TRH	Total Recoverable Hydrocarbons
UCL	Upper Confidence Limit
VOC	Volatile Organic Compounds

Executive Summary

JBS&G Australia Pty Ltd (JBS&G) was engaged by Plan Project Management Pty Ltd (the client) to conduct a Detailed Site Investigation (DSI) for a property located at 706-752 Mamre Road, Kemps Creek, NSW (the site). The site covers an area of approximately 52 hectares (ha) and is legally identified as Lot 10 Deposited Plan (DP) 1280592. The site location and layout are shown on **Figure 1** and **Figure 2**, respectively.

The project area for the proposed development, 706-752 Mamre Road, Kemps Creek (Lot 10 DP 1280592), constitutes the main development site with areas across the shared boundaries to the east and south (described below) utilised to facilitate roadworks and bulk earthworks:

- Gibb Group site to the East known as 1-22 Bakers Lane, Kemps Creek (Lot 40 in DP 709347); and
- GPT Group site to the South known as 754 Mamre Road, Kemps Creek (Lot 180 in DP 1290397).

Additionally, power supply lead-in from Sydney-West Substation is proposed as part of the development, which traverses through multiple landholdings.

The site is proposed for development under a State Significant Development Application (SSDA) as a data centre campus comprising:

- Approximately 26 shells across four-storeys data centre buildings (4x four shells and 2x five shells), including six technical office buildings, plus a campus office.
- Incoming and internal electrical substations and associated infrastructure.
- Site preparation, including earthworks, stormwater, sewer, roads, and associated infrastructure.

The site currently comprises undulating rural/pastoral land with a series of man-made surface water dams. A former residential dwelling and associated structures, including concrete pavement, were demolished in February 2025. Previous due diligence environmental investigations (JBS&G 2020[1]) identified potential areas of environmental concern (AECs) and contaminants of potential concern (COPC) associated with current and historic land uses. A DSI is required to assess the potential for contamination at the site and determine if the site is suitable or can be made suitable for proposed commercial/industrial land use.

The Planning Secretary's Environmental Assessment Requirements (SEARs) have been obtained for SSD-92743706, Mamre Road Data Centre Campus. The Table below identifies the SEARs item addressed by this report.

SEARs Compliance Table

SEARs Section	Item request	Item Addressed
Contamination	A site contamination assessment in accordance with the Managing Land Contamination Planning Guidelines: SEPP 55 – Remediation of Land (DUAP, 1998), including: - characterisation of the nature and extent of any contamination on the site and surrounding area - a Detailed Site Investigation (DSI) and a Remedial Action Plan, if the Preliminary Site Investigation indicates contamination is present and a DSI is required.	This report provides a site contamination assessment in accordance with DUAP (1998) and a Detailed Site Investigation.

The investigation including the advancement of 163 soil sampling locations, collection of four sediment samples and five surface water samples and submission of selected samples for laboratory analysis for

[1] *Due Diligence, 706-752 Mamre Road, Kemps Creek* Document 57522-33684 (Rev1). JBS&G Australia Pty Ltd. Dated 23 October 2020. (JBS&G 2020)

selected COPC. Additional sampling was undertaken at 41 soil sampling locations and 5 surface water locations for per- and polyfluoroalkyl substances (PFAS). Areas identified by previous investigations to be potentially impacted with bonded ACM were assessed in accordance with NEPC (2013) and Western Australia Department of Health (WA DOH 2009[2]) guidance. The portion of the site comprising part Lot 180 and part Lot 40 were inaccessible at the time of the investigation.

The results of the investigation indicated that, with the exception of isolated asbestos impacts (discussed below), COPC concentrations were below the adopted human health criteria in soil sampling locations. The zinc concentration exceeding the adopted ecological criteria at one location was considered not to pose an unacceptable risk under the proposed commercial/industrial land uses.

Asbestos impacts to soil (bonded asbestos containing material (ACM) and asbestos fines/fibrous asbestos (AF/FA)) were identified within the residential area (central north) and stockpiled material in the central south. Bonded ACM was identified at 13 sample locations in concentrations exceeding the criterion of 'no visible' ACM in surface soils (0-0.1 m). One sample (RZ10- 0-0.05) contained 0.668% w/w AF/FA, exceeding the human health criterion (0.001 % w/w). Asbestos impacts at the site are considered to pose a potential unacceptable health risk and require remediation and/or management.

Building materials (brick/concrete) were identified at the site surface surrounding up-gradient retention pond embankments (utilised for stabilisation/erosion mitigation). A single ACM conduit was identified co-mingled with brick/concrete at one retention pond location. Noting the consistent composition of materials surrounding the retention ponds, JBS&G consider the potential exists for further ACM inclusions in other areas (noted to contain similar wastes) which will require remediation and/or management. It is noted brick/concrete are generally considered not to represent an unacceptable aesthetic issue under a commercial/industrial land use scenario (pursuant to NEPC 2013).

Anthropogenic wastes considered to pose a potential aesthetic issue were identified to be co-mingled with asbestos impacted materials. Materials considered to pose a potential aesthetic issue may require remediation and/or management.

One sample location advanced underlying a petroleum style drum within the residential area (~200 litre capacity) reported TRH and hydrocarbon impact (staining) exceeding the adopted Management Limits and Ecological Screening Levels (ESLs). The impact was observed to approximately 1 m depth and is anticipated to be generally limited in extent. Hydrocarbon impacts are considered to pose an aesthetic issue which will require remediation and/or management.

Surface water samples contained heavy metals in concentrations exceeding the adopted ecological criteria and PFOS was detected in one water sample exceeding adopted 99% ecological screening criterion. Noting the surface water dams will not form part of the proposed development surface water does not pose a risk to future site receptors. In accordance with the *Protection of the Environment Operations Act 1997* (POEO Act), surface water will require treatment should it require off-site discharge (i.e. to stormwater or the receiving environment). With regard to relevant EPA made or endorsed guidance, surface waters are anticipated to be suitable for irrigation on-site, which may be a preferred option.

In the absence of identified gross or widespread contamination to soil or surface waters, groundwater is considered not to pose a potential risk to site receptors under the proposed commercial/industrial land use.

Site fill materials are provisionally classified as General Solid Waste (GSW) (non-putrescible). Where asbestos is present, materials would be classified as Special Waste (asbestos) in accordance with EPA (2014[3]) guidance.

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

[3] *Waste Classification Guidelines Part 1: Classifying Waste*. NSW EPA 2014 (EPA 2014)

Based on the results of the investigation and subject to the limitations in **Section 12**, JBS&G conclude the site can be made suitable for the proposed land use subject to remediation/management of identified contamination.

JBS&G recommends that a RAP be prepared to describe the required remediation and validation works to ensure the site is suitable for the proposed commercial industrial land use. A small portion of the adjoining land (part Lot 180 DP1290397 to the south and part Lot 40 DP 708347 to the east), parts of future roads, was inaccessible during the investigation, and as such additional data gap / validation assessment will be required in these portions of the site which should be stipulated in the validation plan in the RAP.

Due to the presence of asbestos on-site, is it recommended that an interim AMP be prepared to address identified asbestos impacts considered to pose a potential WHS risk, until such time as the impacts are removed.

1. Introduction

1.1 Background

JBS&G Australia Pty Ltd (JBS&G) was engaged by Plan Project Management Pty Ltd (the client) to conduct a Detailed Site Investigation (DSI) for a property located at 706-752 Mamre Road, Kemps Creek, NSW (the site). The site covers an area of approximately 55 hectares (ha) and is legally identified as Lot 10 Deposited Plan (DP) 1280592. The site location and layout are shown on **Figure 1** and **Figure 2**, respectively.

The project area for the proposed development, 706-752 Mamre Road, Kemps Creek (Lot 10 DP 1280592), constitutes the main development site with areas across the shared boundaries to the east and south (described below) utilised to facilitate roadworks and bulk earthworks:

- Gibb Group site to the East known as 1-22 Bakers Lane, Kemps Creek (part Lot 40 in DP 709347); and
- GPT Group site to the South known as 754 Mamre Road, Kemps Creek (part Lot 180 in DP 1290397).

Additionally, power supply lead-in from Sydney-West Substation is proposed as part of the development, which traverses through multiple landholdings.

The site is proposed for development under a State Significant Development Application (SSDA) as a data centre campus comprising:

- Approximately 26 shells across four-storeys data centre buildings (4x four shells and 2x five shells), including six technical office buildings, plus a campus office.
- Incoming and internal electrical substations and associated infrastructure.
- Site preparation, including earthworks, stormwater, sewer, roads, and associated infrastructure.

The site currently comprises undulating rural/pastoral land with a series of man-made surface water dams. A former residential dwelling and associated structures, including concrete pavement, were demolished in February 2025. Previous due diligence environmental investigations (JBS&G 2020[4]) identified potential areas of environmental concern (AECs) and contaminants of potential concern (COPC) associated with current and historic land uses. A DSI is required to assess the potential for contamination at the site and determine if the site is suitable or can be made suitable for proposed commercial/industrial land use.

The Planning Secretary's Environmental Assessment Requirements (SEARs) have been obtained for SSD-92743706, Mamre Road Data Centre Campus. **Table 1.1** identifies the SEARs item addressed by this report.

Table 1.1 SEARs Compliance Table

SEARs Section	Item request	Item Addressed
Contamination	A site contamination assessment in accordance with the Managing Land Contamination Planning Guidelines: SEPP 55 – Remediation of Land (DUAP, 1998), including: - characterisation of the nature and extent of any contamination on the site and surrounding area - a Detailed Site Investigation (DSI) and a Remedial Action Plan, if the Preliminary Site Investigation indicates contamination is present and a DSI is required.	This report provides a site contamination assessment in accordance with DUAP (1998) and a Detailed Site Investigation.

[4] *Due Diligence, 706-752 Mamre Road, Kemps Creek* Document 57522-33684 (Rev1). JBS&G Australia Pty Ltd. Dated 23 October 2020. (JBS&G 2020)

The investigation was developed in accordance with guidelines made or approved by the NSW Environment Protection Authority (EPA) and relevant Australian Standards, and with consideration to the planning-related requirements of Chapter 4, *Remediation of Land of State Environmental Planning Policy (Resilience and Hazards) 2021* (SEPP R&H).

1.2 Objectives

The objectives of the DSI are to assess the suitability of the site for the proposed commercial/industrial land use or provide recommendations that will enable the site to made suitable for the proposed use.

1.3 Scope of Works

To achieve the objectives of the investigation, the scope of works comprised:

- A review of previous investigations made available by the client;
- A review of available site history and background information to identify potential areas of environmental concern (AECs) and associated contaminants of potential concern (COPCs) including:
    - Records of publicly available information held by NSW EPA, where readily available;
    - Records of publicly available information regarding heritage, where readily available; and
    - Licensed groundwater bores data present within a 1 km radius of the site available online from NSW Office of Water.
- Review of the environmental setting including topography, geology and hydrogeology of the site and surrounding areas;
- Review of historic aerial photographs and land title records;
- Development and documentation of a Conceptual Site Model (CSM) based on available information;
- Development of the sampling, analytical and quality plan (SAQP) and associated data quality objectives (DQOs) in accordance with relevant EPA guidelines;
- A detailed inspection of accessible areas of the site to confirm the desktop findings and identify the presence of additional AECs;
- Advancement of 163 soil sampling locations across accessible areas of the site to target identified AECs and provide broad site coverage to assess for general COPCs;
- Collection of four sediment samples and five surface water samples at the site to target identified AECs;
- Collection of soil samples from thirty-three grid-based locations and eight targeted locations for assessment of per- and polyfluoroalkyl substances (PFAS) and collection of five surface water samples for PFAS;
- Laboratory analysis of selected soil, sediment and surface water samples for COPC to provide adequate characterisation;
- Comparison of collected data against EPA published and/or relevant endorsed criteria to facilitate an assessment of land use suitability; and
- Collation of a representative site data set and preparation of this DSI, in general accordance with the requirements of EPA and NEPC (2013) guidelines presenting the outcomes of the assessment and associated conclusions.

1.4 Proposed Development

As noted in **Section 1.1**, site is proposed for development under a State Significant Development Application (SSDA) as a data centre campus comprising:

- Approximately 26 four-storey data centre buildings including six technical office buildings, plus a campus office.
- Incoming and internal electrical substations and associated infrastructure.
- Site preparation, including earthworks, stormwater, sewer, roads, and associated infrastructure.

2. Site Condition and Surrounding Environment

2.1 Site Identification

The location of the site and surrounds is shown in **Figure 1.** The current layout is shown in **Figure 2.** Site details are summarised in **Table 2.1** and discussed in detail in the following section.

Table 2.1 Summary Site Details

Site Legal Identifier (as shown on Figure 2)	Lot 10 DP 1280592
Site Address	706-752 Mamre Road, Kemps Creek NSW, 1-22 Bakers Lane, Kemps Creek (part Lot 40 in DP 709347), 754 Mamre Road, Kemps Creek (part Lot 180 in DP 1290397)
Site Area	Approximately 52 ha
Approximate Relative Level (RL) m Australian Height Datum (AHD)	86 m AHD – south-eastern site extent 44 m AHD – south-western site extent
Local Government Authority	Penrith City Council
Approximate Coordinates, Centre of Site (GDA 94, MGA 56)	295190 mE 6253990 mN
Current Zoning	IN1 General Industrial, with a portion in the west along Mamre Road zoned SP2 Infrastructure
Previous Land Uses	Agricultural and rural/residential and pastoral land
Current Land Uses	Livestock (cattle) grazing
Proposed Land Uses	Commercial/Industrial

2.2 Site Description

As part of the DSI, detailed site inspection was undertaken by one of JBS&G's trained and experienced environmental consultants on 16 November 2020 and 25 August 2025. The site configuration and potential areas of concern are discussed below. A photographic log is presented in **Appendix A**.

At the time of the detailed site inspection in 2020, most of the site comprised vacant agricultural/pastoral land. A dilapidated residence and associated former structures, including concrete footings/water storage tanks were present within the central northern site extent (the 'residential area') occupying approximately 1,500 m^2. An open manmade bore/sump was observed within the centre of a former concrete pad footing within a former maintenance/workshop area. Previous investigations identified a hydrocarbon sheen within this bore. At the time of inspection, no hydrocarbon sheen was observed, noting the standing water level was significantly higher than observations made during previous investigations (JBS&G 2020). There is the potential that the hydrocarbon sheen previously observed in this well may have comprised a microbial sheen.

The former residence was noted to be constructed of asbestos fibre cement sheet, wood, brick and corrugate iron construction and in a state of disrepair, with missing panels fissures and fragments of fibre cement sheeting on the ground surface in areas. Given the number and distribution of observed surface fragments of fibre cement sheeting, the ground surface (average of 0.2 m in depth) within this portion of the site was considered to be impacted with asbestos containing material (ACM) to varying degrees. Bonded

ACM fragments were also observed atop concrete footings and in adjacent surface soils around the former maintenance/workshop area and associated with fly-tipped wastes underlying dense vegetation further north. It is understood the structures and pavement were demolished and removed the site in February 2025, however, asbestos impacted soils remains on-site.

Building and demolition material, general anthropogenic waste including rubbish, tyres and agricultural materials (fencing, concrete culverts, steel drums, fencing, bathtubs) were observed across the broader residential area. A single stockpile containing concrete/asphalt was present adjacent to the accessway fronting Bakers Lane. No odours or significant staining, fertilisers, paint, degreasers, fuel and lubricants were identified within or near site structures. Minor staining and residual semi-solid hydrocarbon impact was observed underlying a single petroleum style drum which had evidence of leaks/spills to adjacent soils. A septic tank of unknown volume was partially buried 10 m to the southwest of the residence.

At the time of the August 2025 inspection and sampling the site buildings had been demolished and the building and other above ground materials observed in 2020 had been removed from site. There were little signs of ground disturbance and, therefore, it was assumed that soils in the area impacted by ACM fragments had not been removed.

An elongated stockpile of building demolition waste (bricks, tiles, concrete, asphalt) with a series of smaller stockpiles of fill soils (adjacent), with an estimated volume of 850 m^3 was observed near a large dam at the central southern area of the site (**Figure 3b**). Isolated fragments of ACM were observed in some of the stockpiled fill material. The material may have been imported onto the site or may be associated with former site structures (demolished buildings) and was likely placed to aid in redirection of water during periods of heavy rainfall. The balance of the site comprised pastoral land. In several locations concrete culverts provided access across site drainage lines. Some isolated anthropogenic waste (bathtub, truck differential, fencing) was identified scattered across the site.

Four large dams and seven smaller dams were observed on-site (shown on **Figure 2**) with a series of interconnected ephemeral drainage lines traversing the site. All dams appeared to have been cut into natural silty clay material with the overburden used as embankments. The height of these dams ranged from 0.3 m above ground level to 3.8 m above ground level covering approximately 12,000 m^2. In addition, an embankment of reworked natural materials was observed to the north of the residential area, likely associated with establishment of levelled surfaces in vicinity of the residential property.

Demolition materials (bricks and concrete) had been used to retain the stability of the dam walls in some places with suspected asbestos pipe found at a dam in the central portion of the site.

2.3 Surrounding Land Use

The current land uses of adjacent properties at the time of investigations are summarised below.

- The site is bound to the north by Bakers Lane, beyond which Little Smarties Early Learning Centre (childcare centre), Emmaus Catholic College and Trinity Catholic Primary School (kindergarten to Year 12) and Emmaus Retirement Village surrounded by pastoral and bushland. Two Sydney Water pipelines run west to east 0.7 km to the north, beyond which lies a large recent commercial/industrial development;
- The site is bound to the east by rural residential and pastoral land, following which runs Aldington Road;
- The site is bound to the south by former rural land currently being redeveloped for a commercial/industrial (warehousing) use, and other rural residential and pastoral land; and

- To the west[5] the site is bound by Mamre Road, with former rural land recently redeveloped for commercial/industrial (warehousing) landuse. The newly constructed Fire and Rescue NSW Emergency Services Academy is situated 0.9 km north-east of the site.

2.4 Topography

Review of topographic information obtained from the Spatial Information Exchange Viewer (LPI 2018[6]) regional topographic map indicated that the site lies at an elevation ranging from approximately 86 m Australian Height Datum (AHD) in the southeast of the site to 44 m AHD in the southwestern portion.

At the time of inspection, the site topography was noted to undulate, with several significant topographical features and steep slopes. The eastern portion of the site was generally noted to fall toward the north-west, with the remainder of the site generally falling to the west/south-west from a ridgeline present in the central portion of the site.

2.5 Geology and Soils

Reference to the 1:100,000 Penrith geological map (Clarke N.R. and Jones D.C. 1991[7]), indicates that the study area is predominantly underlain by Bringelly Shale which forms the upper formation of the Wianamatta Group. Bringelly Shales are characterised by the presence of shales, carbonaceous clays, laminite and coal. Other units which may be encountered across the study area include Quaternary fluvial sand, silt and clay (around existing and old creeks and waterways), surficial topsoil and residual clays (derived from weathering of shale bedrock).

Reference to the eSPADE NSW Soil and Land Information database (OEH 2019[8]) indicates that the site is underlain by both the Luddenham Soil Landscape (eastern half) and the Blacktown Soil Landscape (western half). Details of the soil landscapes are summarised in **Table 2.2.**

Table 2.2 Soil Landscapes within the Investigation Area

Soil Landscape	Geology	Landscape Type	Position	Vegetation	Soil Material	Limitations
Luddenham (lu)	Wianamatta Group Ashfield Shale and Bringelly Shale.	Erosional	Undulating to rolling hills	Cleared Eucalypt woodland, tall open forest (dry schlerophyll)	Shallow dark podzolic soils on crests, moderately deep red podzolic soils on upper slopes, yellow podzolic and prairie soils on lower slopes and	Water erosion hazard, localised steep slopes, localised mass movement hazard, localised surface movement potential, moderately reactive, localised impermeable highly plastic subsoil

[5] It is noted that at the time of this report revision land to the west had been developed for commercial / industrial uses.
[6] *'Spatial Information Exchange Viewer'*, NSW Land and Property Information, Accessed 22 October 2020, https://maps.six.nsw.gov.au/
[7] Clark N.R. and Jones D.C., 1991, Penrith 1:100 000 Geological Sheet 9030, 1st edition. Geological Survey of New South Wales, Sydney
[8] 'eSPADE NSW Soil and Land Information', NSW Office of Environment and Heritage, Accessed 22 October 2019, http://www.environment.nsw.gov.au/eSpade2Webapp

Soil Landscape	Geology	Landscape Type	Position	Vegetation	Soil Material	Limitations
					drainage lines	
Blacktown (bt)	Wianamatta Group shales	Residual	Gently undulating rises and slopes	Cleared Eucalypt woodland, tall open forest (dry schlerophyll)	Red and brown podzols on crests, yellow podzols on lower slopes and drainage lines	Moderately reactive highly plastic subsoil, localised seasonal waterlogging and water erosion hazard, localised surface movement potential

2.6 Hydrology

A review of Nearmap indicated that the closest off-site surface water body is South Creek, located approximately 1 km west of the site. South Creek traverses north-west before discharging into the Hawkesbury River located approximately 26 km to the north of the site.

The nearest on-site surface water receptors are a series of retention ponds (farm dams) which are distributed across the site and interconnected via a series of ephemeral drainage lines. As the site is predominately surfaced with grass cover, it is anticipated surface water generated during periods of rainfall is likely to infiltrate the ground surface at a rate reflective of the silty clay soil permeability. In periods of heavy or prolonged rainfall, excess water is likely to result in overland flow and traverse via a series of ephemeral drainage lines and subsequently to a series of retention ponds and/or re-directed either towards South Creek (western portion of the site), or north-west (eastern portion of the site), following the topographic gradient.

2.7 Hydrogeology

Licensed groundwater bore information was obtained from the Water NSW groundwater mapping portal (Water NSW 2020[9]). A review of the licensed bore information indicated that there are seven groundwater wells within 1.5 km radius of the site all situated within the newly developed commercial/industrial area to the north. Groundwater bore locations in relation to site are provided in **Appendix C**.

Table 2.3: Groundwater Monitoring Bores

Bore ID	Distance from Site	Use	Standing Water Level	Well Depth	Reported Lithology
GW110029	1.24 km north	Monitoring Bore	-	0.75 m below ground surface (bgs)	Topsoil to 0.20 m bgs; Silty Clay to 0.50 m bgs; Clay to 0.75 m bgs
GW110030	1.01 km north	Monitoring Bore	-	0.75 m bgs	Topsoil to 0.20 m bgs; Silty Clay to 0.60 m bgs; Clay to 0.75 m bgs

[9] Water NSW, 2019. Groundwater Monitoring Overview Map. https://realtimedata.waternsw.com.au/. Accessed 22 October 2020.

Bore ID	Distance from Site	Use	Standing Water Level	Well Depth	Reported Lithology
GW110031	0.90 km north	Monitoring Bore	-	0.75 m bgs	Topsoil to 0.20 m bgs; Silty Clay to 0.40 m bgs; Clay to 0.75 m bgs
GW101083	1.22 km north	Test Bore	9.12 m bgs	78.00 m bgs	Lithology data not reported
GW101084	1.27 km north	Test Bore	-	50.00 m bgs	Lithology data not reported
GW10187	1.43 km north	Test Bore	-	90.30 m bgs	Lithology data not reported
GW10188	1.44 km north	Test Bore		60.20 m bgs	Lithology data not reported

Perched (saline) groundwater may be present within localised (shallow) filled areas and generally within the soils in the lower landscape above shale bedrock. Saline groundwater is also anticipated at relatively shallow depths in the lower landscape portions of the site, hosted by fracturing / jointing of the Wianamatta Shales, albeit limited in extent. Given the site is underlain by low permeability clays and shales, the potential for groundwater movement is likely to be low.

The potential for drinking water use and stock watering would be limited due to the saline nature of groundwater.

2.8 Acid Sulfate Soils

Acid sulfate soils (ASS) are generally associated with low-lying coastal areas, including estuarine flood plains, rivers and creeks. The location and elevation of the site (> 60 m AHD) are such that the likelihood of ASS within the study area is low.

With consideration to the geological, soil/rock physical characteristics and classification, topography and development, management of potential ASS is not considered necessary.

2.9 Meteorology

A review of average climatic data for the nearest Bureau of Meteorology monitoring location (Badgerys Creek AWS[10]) indicates the Site is located within the following meteorological setting:

- Average maximum temperatures range from 17.5°C in July to 30.3°C in January;
- Average minimum temperatures range from 4.1°C in July to 17.3°C in January;
- The average annual rainfall is approximately 658 mm with rainfall greater than 1 mm occurring on an average of 67 days per year; and
- Monthly rainfall varies form 24.8 mm in July to 108.8 mm in February with the wettest periods occurring on average between the months of January to March.

[10] http://www.bom.gov.au/climate/averages/tables/cw_067108.shtml, Commonwealth of Australia, 2018 Bureau of Meteorology,
Product IDCJCM0028 prepared on 22 October 2020 and accessed by JBS&G on 22 October 2020.

2.10 Salinity

The site is shown on the Salinity Potential Map for Western Sydney (DIPNR 2002[11]) to lie within an area of moderate salinity potential, with high salinity potential in the vicinity of creek and drainage lines.

Areas of moderate salinity generally consist of areas susceptible to saline affectation if disturbed particularly if saline groundwater / seepage is intercepted and / or if areas of water logging can occur.

Areas of high saline risk generally occur lower in the landscape, or at permeability contrasts, where saline groundwater may come near to the ground surface or where seepage causes waterlogged conditions, thereby concentrating salt in soils. Typically scattered saline indicator vegetation occurs in these areas.

However, during the site inspection there was no indication of saline soils at the ground surface. There was no evidence of salt scarring identified around the dams or other areas of surface water pooled at the site.

11 Department of Infrastructure, Planning and Natural Resources. *Salinity Potential in Western Sydney 2002* (DIPNR 2002)

3. Site History

3.1 Aerial Photographs

Historical aerial photographs dated 1955, 1965,1978, 1986, 1991, 2005, 2012 and 2019 were obtained from the Land and Property Information Division of the Department of Finances and Services in addition to recent aerial imagery (2025) from NearMap. Imagery is presented in **Appendix D**. Relevant information from the aerial imagery review is summarised in **Table 3.1**.

Table 3.1 Summary of Historical Aerial Imagery Review

Year	Summary of Observations
1955	• The site appeared to comprise part of a larger cleared allotment utilized for pastoral land uses. A small residential style building and associated structures (sheds – AEC 1) was apparent within the central northern site extent. Two dams were present on site one in the north-eastern portion and one in the western portion of site. An ephemeral drainage line dissected the north-east of the site and worked agricultural ground was present to the south-west. • The surrounding land use comprised cleared paddocks utilized for pastoral land uses. With Mamre Road adjacent the western boundary.
1965	• The site appeared similar to the previous aerial photograph with the notable exception of eight additional small surface water dams located throughout the property. An earthen track (Bakers Lane) was apparent along the northern boundary. Trees and gardens had been established around the residential dwelling and the agricultural paddocks in the south-eastern portion of site had returned to grass. • A residential dwelling and associated sheds had been constructed in the Lot directly south. To the north adjacent the residential dwelling were farm buildings. The surrounding land use comprised cleared paddocks utilized for pastoral land uses
1978	• The site appears similar to the previous aerial photograph, with the exception of the creation of a large dam in the north-eastern corner and a dirt track running between two of the smaller dams in the central northern portion of the site. • Bakers Lane appeared to have been created by improvement from a farm lane to a gravel road. It is assumed cut and fill earthworks associated with the levelling of the road resulted in the creation of the large dam to the north-east of site and the cut reworked natural cutting and filling to the north of the dwelling (AEC 6). The surrounding land use remained unchanged and comprised cleared paddocks utilized for pastoral land uses
1986	• The site appears similar to the previous aerial photograph, with the exception of the creation of an additional two dams in the south-western portion of the site (reworked natural embankments AEC 6). A drainage line has been cut between the two dams (AEC7). A total of eleven dams are on site, three large and nine smaller ones. A portion of the site to the east appeared to have been tilled for agricultural use.

Year	Summary of Observations
	• Bakers Lane to the north of the site had undergone further improvements, three dwellings had been constructed on the western side of Mamre Road, and a residential dwelling built on the Lot directly south along the southern boundary of the site, the surrounding land use remained unchanged and comprised cleared paddocks utilized for pastoral land uses.
1991	• No changes appeared to have occurred on site with the exception of another drainage line (AEC 7) having been created in the south-western portion of site. • Construction of two of the school campuses had occurred to the north across Bakers Lane. A circuit potentially associated with horse training appeared to have been constructed to the north-west. Market garden activities appear to have begun 200 m to the south.
2005	• No changes appeared to have occurred on site with the exception of the importation of demo waste in the southern central portion of site (AEC 3) adjacent one of the large dams. • Construction of the last of the school campuses had occurred to the north across Bakers Lane. The race circuit to the north-west appeared to have become derelict. Market garden activities appear to have begun on the Lot immediately south of the site.
2012	• No changes appeared to have occurred on site. • The surrounding land use remained unchanged with the exception of a large gravel area associated with vehicle parking and material storage has been laid west of the residence in the Lot directly to the south.
2019	• No changes appeared to have occurred on site. • The surrounding land use remained unchanged with the exception of two large gravel pads associated with vehicle parking having been laid in the western portion of the Lot directly to the south.
2025	• Site buildings have been demolished and are no longer visible. • Mamre Road appears to have been widened. Land to the west and northwest of Mamre Road has been developed for commercial/industrial landuse. Land adjoining the southern boundary is subject to civil works for potential development for commercial/industrial purposes, with warehouses having been constructed on land further to the south.

3.2 EPA Records

A search of the NSW EPA database was undertaken on 8 September 2025 (**Appendix E**) for the site and immediate surroundings. The search consisted of the:

- NSW EPA Protection of the Environment Act public register of licence, applications and notices (maintained under Section 308 of the *Protection of the Environment Operations Act 1997* (POEO Act));

- NSW EPA contaminated land public register of record of notices (under Section 58 of the *Contaminated Land Management Act 1997* (CLM Act)); and
- NSW contaminated sites notified to the EPA (under Section 60 of the CLM Act).

The search identified that, for the site, there were:

- No prevention, clean up or prohibition notices;
- No transfer, variation, suspension, surrender or revocation of an environmental protection licence; and
- No notices issued under section 58 of the CLM Act.

A search was also undertaken through the EPAs PFAS register of contaminated sites and is included in **Appendix C**. The search identified that there are no sites in the immediate area notified to the EPA with regards to PFAS contamination.

The nearest property included on the EPA PFAS investigation program is the Kemps Creek NSW Rural Fire Service (RFS) depot on Liverpool City Council land at 245 Devonshire Road, approximately 5 km south southeast of the site. No details were available regarding sampling locations/results; however, it is possible surface water samples were collected from Kemps Creek or waterways in connection with Kemps Creek, close to the RFS site. Kemps Creek flows north-northwest to the east of the site. Noting the site is situated at a regional high point and site surface waters are not directly connected to downgradient flow from Kemps Creek, the Kemps Creek RFS is not considered to be a potential source of PFAS contamination migration to the site.

3.3 Council Planning Certificate

Copies of the Section 10.7 Planning Certificate 2 and 5 were obtained for Lot 1 in DP 104958 from Penrith City Council and are included as **Appendix F**, dated 17 November 2020. It is noted that Lot 1 in DP 104958 is now known as Lot 10 DP 1280592, however, the information in the Planning Certificates remain relevant to the new Lot and DP. The planning certificates outlined the following information pertaining to Lot 1 DP 104958:

- Most of the land is zoned IN1 – General Industrial, with a small area along Mamre Road zoned SP2 Infrastructure;
- The land has not been identified as comprising soils classified as Class 1 or Class 2 ASS;
- The land is affected by road widening or road realignment;
- The land has not been certified as biodiversity certified land;
- The land has not been affected by a policy adopted by any other public authority and notified to the Council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the Council, that restricts development of land because of likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulfate soils or any other risk (other than flooding);
- Some of the land is identified as bushfire prone land according to Council records;
- Development on the site for industrial or commercial purposes is subject to flood related development controls;
- The land has not been identified on the Loose-Fill Asbestos Insulation Register as containing loose-fill asbestos ceiling insulation;
- The land is not declared to be significantly contaminated land within the meaning of CLM Act; and

- The land is not subject to a management order, a voluntary management proposal, ongoing maintenance order or a site audit statement and is not considered to be significantly contaminated to warrant regulation under the CLM Act.

3.4 Heritage Searches

A search of both the Australian Heritage Trust database and the NSW Heritage Inventory identified no items of Australian or NSW historical significance sharing boundaries with or in close proximity to the site. Detailed search results for the site and surrounding areas are included in **Appendix G**.

3.5 SafeWork NSW Records

A search of the records held by SafeWork NSW was not obtained as part of this investigation. Given the site history, dangerous goods are unlikely to have been stored at the site. Several empty petroleum drums were noted within the residential area during the 2020 site inspection but were not observed in the 2025 site inspection. No significant evidence of chemical/petroleum storage was identified during the site inspections as outlined in **Section 2.2**.

3.6 Historical Land Title Records

Historical land title records were obtained by JBS&G for review and are provided in **Appendix H**. A summary of the historical title documentation records for the site is provided below (**Table 3.2**).

Table 3.2 Summary of Historical Title Search Results

Year	Schedule of Registered Proprietors
Lot 250 DP 752038	
18/06/1913	Samuel Charles Baker (Farmer)
04/12/1956	Doris Muriel Clark (Married Woman) Olive May Hoyer (Married Woman) (Tenants in Common)
04/12/1956	Henry Charles Hoyer (Farmer) Olive May Hoyer (Married Woman)
25/05/1966	Olive May Hoyer (Widow)
25/08/1972	Werona Pastoral Co Pty Limited
10/12/2002	Sam Camilleri Elizabeth Camilleri Adcom Holdings Pty Ltd Michael Camilleri Rosemary Cassar Joseph Camilleri
8/7/2024	#ISPT Pty Limited

# denotes current registered owners

3.7 Integrity Assessment and Summary of Site History

The information obtained from the historical sources reviewed has been found to be in general agreement. It is therefore considered that the information provided in this historical assessment has an acceptable level of accuracy.

4. Previous Investigations

4.1 Combined Preliminary Environmental Site Assessment and Salinity Assessment (PSM 2010)

Pells Sullivan Meynink (PSM 2010[12]) were engaged to undertake a salinity assessment and a Preliminary Environmental Site Assessment (ESA) at the site to assist with the feasibility of subdividing and redeveloping the site into a series of industrial allotments.

The salinity assessment undertaken by PSM included a site walk over survey and review of historic aerial photographs and included the advancement of 20 test pit locations, three boreholes and installation of piezometers. A program of soil and groundwater sampling and analysis was undertaken to target potential salinity concerns. The investigation reported the following:

- The site is underlain by residual stiff to very stiff clays which overlie weathered shales;
- Site soils were generally classifiable as non-saline, with saline soils at depth. No special consideration to saline soils at the site was considered warranted under the proposed development;
- Soils above the groundwater are non-aggressive, soils below the groundwater are non-aggressive to mild; and
- Groundwater was encountered at one borehole (BH3) at a depth of 6.8 m bgs. Groundwater at the site is saline in nature.

As part of the investigation, PSM engaged Urban Environmental Services Pty Ltd (UES) to undertake a Preliminary ESA for the site (UES 2010[13]). The investigation included a site inspection, review of the site environmental setting, including geology, hydrology, hydrogeology, review of site history including historic land title records and aerial photographs and a review of readily available reports/records including records held by the EPA under the CLM Act. It is noted no detailed description of site conditions was presented by UES at the time of reporting, other than noting the site comprised rural land.

Based on the findings of the investigation, UES (2010) concluded that the site had a history of farming and pastoral use, did not have a history of potentially contaminating activities, and no further contamination investigation was considered warranted.

JBS&G consider agriculture and farming (even light use) to be potentially contaminating land use activities which may require further investigation, consistent with SEPP (R&H) Planning Guidelines (DUAP 1998[14]).

4.2 Due Diligence, 706-752 Mamre Road, Kemps Creek (JBS&G 2020)

JBS&G completed a due diligence contamination assessment report at the site. The investigations included a review of available site history and background information and a review of the sites environmental setting.

The investigation included a detailed site inspection and development of a preliminary CSM which identified potential AECs including:

- Existing and former site structures;
- Former machinery/maintenance areas;

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12 *Preliminary Environmental Site Assessment (PSEA) and Salinity Assessment, corner of Bakers Lane and Mamre Road, Erskine Park NSW*. Pells Sullivan Meynink Pty Ltd, Doc Ref: PSM1743.R1 Rev2 dated August 2010 (PSM 2010)

13 *Phase 1 Environmental Site Assessment, Lot 1 DP 104958, Bakers Lane Erskine Park, NSW.* Urban Environmental Services Pty Ltd, Doc Ref: UES 033:R01 dated 24 June 2010 (UES 2010)

14 Managing Land Contamination Planning Guidelines SEPP 55 – Remediation of Land, Department of Urban Affairs and Planning, Environment Protection Authority (DUAP 1988)

- Building and demolition materials;
- General anthropogenic waste;
- Site sewerage infrastructure (septic tank);
- Reworked natural filling; and
- Ephemeral drainage lines.

The detailed site investigation identified suspected ACM fragments surrounding the residential structures and maintenance area. A manmade bore within the maintenance area was identified to contain a hydrocarbon sheen. The CSM identified a low to moderate potential for migration of contamination from the site, noting ephemeral drainage lines discharge from the site. It was anticipated that should contamination exist, the vertical migration of contamination would be greatly reduced by the sites underlying, impermeable silty clays.

The following key findings were presented by JBS&G (2020):

- Most of the site area comprises land which has historically been undeveloped and/or utilised for agricultural purposes including grazing;
- The site is proposed to be acquired and redeveloped for commercial / industrial land use;
- No EPA notices pertaining to the site were identified;
- No notified and/or protected historical buildings were identified at the site;
- Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), planning instrument prevails over SEPP R&H, meaning any future remediation works will require development consent;
- Fragments of suspected ACM were identified around the derelict residential dwelling and demolished sheds, the inferred extent occupies an area of approximately 1,150 m^2 by 0.2 m depth (230 m^3);
- Hydrocarbon sheen was observed on water in an open bore situated in the middle of a concrete pad of a former work area. The bore may have been used for disposal of liquid wastes and suggest the potential for groundwater to be impacted, to a localised extent, from historical use.
- Demolition and building waste was noted at several locations in dam embankments, including suspected ACM pipes at one location;
- Fragments of bonded ACM were identified in stockpiled soil adjacent to building and demolition material in the central south of the site. As a conservative measure, it is considered all stockpiled material in this area, estimated to be 350 m^3, is impacted with ACM;
- In some areas, anthropogenic materials (rubbish and agricultural materials including fencing, concrete culverts, steel) were present at quantities that may pose an aesthetic issue under a commercial/industrial land use. Identified materials were typical of the low-risk historical land uses that occurred at the site and are anticipated to be addressed through normal waste management practices;
- A septic tank of unknown volume was identified to the south of the derelict residential dwelling;
- Most dam embankments comprised reworked natural (silty clay) to heights of up to 3.8 m and were not identified to pose a likely contamination risk at the site; and
- Ephemeral drainage lines are present across the site linking dams and capturing rainwater from the slopes. Due to the potential for historical farming operations across the site there is potential for accumulation of contaminants in drainage lines and dams over time.

JBS&G (2020) noted that additional site characterisation activities may be required by the relevant Planning Authority prior to submission of a Development Application (DA) for the site. A DSI including targeted soil, sediment and groundwater sampling as well as a Remedial Action Plan (RAP) may also be required to be submitted with the DA.

A hazardous materials survey and report will be required for the demolition of the residence and site structures and a salinity assessment may be required.

5. Conceptual Site Model

5.1 Areas of Environmental Concern

Based on the site history review and observations made during the detailed site inspection, AECs and associated COPCs have been identified and are presented in **Table 5.1**.

Table 5.1 AECs and associated COPC

AECs	COPCs
1. Former rural residential and agricultural area comprising existing/former site structures and maintenance/workshop	Heavy metals, total recoverable hydrocarbons (TRH)/benzene, toluene, ethylbenzene, xylene (BTEX), semi/volatile organic compounds (S/VOCs), polychlorinated biphenyls (PCBs), organochlorine pesticides (OCPs), polycyclic aromatic hydrocarbons (PAHs), per- and polyfluoroalkyl substances (PFAS) asbestos and aesthetic issues
2. Fill of unknown origin	Heavy metals, TRH/BTEX, PCBs, OCPs, PAHs, asbestos and aesthetic issues
3. Septic tank and system	Biological (E. Coli, Faecal Coliforms, Salmonella)
4. General anthropogenic waste/building materials (bricks, concrete culverts, metal fencing, discarded equipment)	Heavy metals, asbestos and aesthetic issues
5. Reworked natural filling (embankments)	Heavy metals, PAHs, PCBs, OCP, organophosphorus pesticides (OPP),
6. Pastoral agricultural land (entire site)	Heavy metals, OCP, OPP
7. Made surface water retention ponds and ephemeral drainage lines	Heavy metals, PAHs, ammonia, nitrate, nitrite, TRH, S/VOC

5.2 Potentially Contaminated Media

Potentially contaminated media present at the assessment area include:

- Sediments;
- Fill materials;
- Natural soils/bedrock; and
- Surface water.

In the event that impacts to soil are identified that have the potential to impact groundwater, then groundwater may need to be considered as a potentially impacted medium and groundwater investigation may be required.

Table 5.2 below provides a breakdown of potentially contaminated media with identified AECs presented in **Table 5.1**.

Table 5.2: Potentially Contaminated Media

AEC	Potentially Contaminated Media	Comment
AEC 1: Former rural residential and agricultural area	Fill material/natural soils	Fill material present on site is potentially contaminated and site historical activities have potentially contaminated natural soils as a results of historical agricultural land uses (maintenance/workshop) including spills/leaks of chemical/petroleum and vehicle/plant use and potential presence of hazardous building materials within existing and former site structures.
	Groundwater	There is the potential for the leaching of contaminants vertically from fill/soils into groundwater and/or migration of potentially contamination to groundwater.
AEC 2: Fill of unknown origin	Fill material	Potentially contaminated fill material of unknown origin has been imported to site.
	Natural Soils	Natural soils underlie fill materials and may potentially be impacted by the downward migration of contaminants through fill, particularly in open areas where infiltration is possible and/or where seepage water may pass through fill.
	Surface water/ groundwater	There is the potential for migration of contamination to surface waters and for leaching of contaminants vertically from fill into groundwater.
AEC 3: Septic tank system	Fill material/natural soils	Potential remains for fill material and/or underlying natural material to be impacted by septic/sewerage infrastructure, with any potential impacts limited to existing infrastructure by low permeability natural underlying clays.
AEC 4: General anthropogenic and building and demolition materials	Fill material/natural soils/surface waters/groundwater	Potential for contamination in fill material resultant from waste material and building/demolition material storage sporadically distributed across the site and used around dam embankments for stabilisation. There may be potential for the migration of contaminates through fill to the underlying natural soils or via leaching and migration to site surface waters groundwater.
AEC 5: Reworked natural filling (embankments)	Fill material/natural soils/surface water/ groundwater	Potential for contamination in reworked natural fill materials associated with historic agricultural land uses. From reworked natural fill material there may be potential for the migration of contaminants either through fill to the underlying natural soils or via leaching and migration to site surface waters groundwater.
AEC 6: Pastoral agricultural land	Fill material/natural soils	Potential for historic light agricultural uses to have involved application of fertilisers/chemicals to have impacted soils.
	Surface water	Potential for contamination in surface waters resultant from historical/current agricultural land uses at the site and surrounding properties.
	Sediment	Potential for accumulation of contaminants within retention ponds, particularly those that are highly sorbed and/or readily transported hydrologically.

AEC	Potentially Contaminated Media	Comment
	Groundwater	There is the potential for the migration of contaminants vertically from surface water/sediment leaching into groundwater.
AEC 7: Accumulated surface waters and ephemeral drainage lines	Sediment/fill material /natural soil	Potential for contamination in surface water to have impacted underlying sediments/fill materials and natural soils within man-made dams and/or ephemeral drainage lines.
	Surface water	Potential for contamination in surface waters resultant from historical/current agricultural land uses at the site and surrounding properties.
	Groundwater	There is the potential for the migration of potentially contaminated surface waters vertically from retention ponds into groundwater.

5.3 Potential for Migration

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

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

The potential contaminants identified as part of the site history review were generally in either a solid form (e.g. heavy metals, asbestos, etc.) and liquid form (e.g. fuel, lubricants, pesticides, etc.).

As most of the site is predominately grass covered, the potential for windblown dust migration of contamination from the site is generally low, however, there may be a moderate potential for windblown dust where exposed soils are present in areas of high traffic areas/eroding dam embankments. The potential for contamination migration via surface water movement, infiltration of water and subsequent migration through the soil/fill profile is considered low given the absence of impervious pavements and the reported geology/anticipated underlying fill conditions.

Given the nature of the underlying soils/fill, potential migration of contamination via groundwater movement is considered to be low in areas of natural impermeable residual clays. It is noted that shallow groundwater is likely to be perched, limited in extent and limited in mobility. A moderate potential for migration of contamination exists for soluble compounds and/or those which are readily transported by surface waters via a series of interconnected ephemeral drainage lines at the site.

5.4 Potential Exposure Pathways

Based on the COPCs identified in various media as discussed above, the exposure pathways for the site include:

- Potential inhalation of airborne asbestos fibres and/or heavy metal impacted, or pesticide impacted dust particles migrating from exposed areas of soil on site (i.e. wind-blown); and/or
- Potential dermal and oral contact to impacted soils present at shallow depths; and/or

- Potential oral and dermal contact to surface waters and sediments within current/former retention ponds accessible by future site users and/or during future excavation/redevelopment; and/or
- Potential contaminant uptake by potential ecological receptors.

5.5 Receptors

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

- Future site users/visitors who may potentially be exposed to contaminants of concern through direct contact with impacted soils / sediments and surface waters/ groundwater and sediments and/or inhalation of dusts/fibres associated with impacted soils; and/or
- Excavation/construction/maintenance workers conducting activities at the site, who may potentially be exposed to contaminants of concern through direct contact with impacted soils/surface water/groundwater present within excavations and/or inhalation of dusts/fibres associated with impacted soils;
- Flora species established on the site or other potential ecological receptors in landscaped areas;
- Downgradient ecological receptors including the freshwater South Creek; and
- Existing and/or future users/occupants of adjoining rural residential properties and educational facilities should contamination be identified to be migrating from the site.

5.6 Preferential Pathways

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

Man-made preferential pathways are likely to be generally restricted to the central north-west of the site, within the residential area, generally associated with fill materials and/or established infrastructure. Fill materials are anticipated to have a high permeability. Sub-surface services are also likely to be present in this area. Preferential pathways can be created by the generally higher permeability backfill used to re-instate these trenches.

Preferential pathways also exist in the form of manmade and natural ephemeral drainage lines which interconnect a series of manmade surface water dams, which are considered to act potential migration pathway for soluble constituents or readily suspended particulates. These ephemeral drainage lines are also important in the assessing potential on-site migration of off-site sources of COPC from adjoining neighbouring upgradient properties.

6. Sampling and Analysis Plan

6.1 Data Quality Objectives

Data quality objectives (DQOs) were developed for the investigation, as discussed in the following sections.

The desktop assessment (JBS&G 2020) identified a range of AECs and associated COPCs associated with historic land uses at the site. The investigation identified the presence of bonded ACM within the residential area (central north-east) and stockpiled fill material in the central south of the site. Further the investigation identified the potential for contamination to site fill, natural materials, sediments and ground/surface waters at the site.

It is noted that a small portion of the site to the south and east (part Lot 180 DP1290397 and part Lot 40 DP 708347, respectively), which will form part of future road developments, were inaccessible during the investigation.

6.1.1 State the Problem

Based on review of the desktop assessment (**Section 4**), a detailed investigation was required to be undertaken to sufficiently characterise site soil, sediment and surface water in accordance with relevant EPA made or endorsed guidelines (**Section 7**) and ensure the sampling density as specified in EPA (2022[15]) and NEPC (2013) are achieved.

Since asbestos had been identified in surface soils within the residential area (central north) and stockpiled material in the central south of the site, and current guidelines (NEPC 2013) specify risk-based health criteria under the different beneficial land use scenarios, further assessment was required in accordance with Western Australia Department of Health (WA DOH 2009[16]) to examine the extent of asbestos impact and any remedial/management actions that may be needed to make the site suitable for the proposed commercial/industrial land use without ongoing management.

Information of known and potential site contamination conditions inferred from the desktop assessment, review of previous investigations (**Section 4**) and observations made during the site inspection resulted in the development of the CSM presented in **Section 5**, and the respective data forms the basis of this DSI.

6.1.2 Identify the Decision

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017[17]), the following decisions must be made:

- Are there any unacceptable risks to likely future on-site receptors from site media?
- Are there any impacts of chemical mixtures?
- Are there any aesthetic issues at the site?
- Is there any evidence of, or potential for, migration of contaminants from the site?
- Is a site management strategy required?
- Are there any data gaps on site?

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15 Note: At the time of investigation NSW EPA 1995 Sampling Design Guidelines were in force. These were updated in August 2022 following completion of the investigation as outlined herein. The sampling program remains consistent with current guidance outlined in NSW EPA *Contaminated Land Guidelines, Sampling design part 1 - application* (EPA 2022).

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

17 *Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd edition)*, NSW Environmental Protection Authority, October 2017 (EPA 2017)

6.1.3 Identify Inputs to the Decision

Inputs identified to provide sufficient data to make the decisions nominated above include:

- Desktop review of readily available records including those held by the NSW EPA, department of Environment and Heritage and site setting including a review of site geology, hydrology, hydrogeology etc;
- Desktop review of the available historic contamination assessment reports to identify areas of potential concern and collation of relevant information to be utilised the DSI report outlined herein;
- Detailed site inspection/walkover;
- Observations and interpretation of fill and natural material through intrusive investigation and screening of site soils;
- Observations, field screening and interpretation of surface/groundwater;
- Soil, sediment and surface/groundwater sampling and analysis across the site to provide adequate characterisation data of site media;
- Development of appropriate assessment criteria for evaluation of soil, sediment and surface/groundwater impacts;
- Field parameters measured utilising calibrated equipment during the intrusive investigation;
- Laboratory analysis of selected samples of potentially contaminated media for contaminants of concern; and
- Confirmation that data generated by sample analysis are of an acceptable quality to allow reliable comparison to assessment criteria by review of quality assurance / quality control (QA/QC) as per the data quality indicators established in Section 6.1.6.

Specifically, sufficient data needs to be collected from each of the identified potentially impacted media in the identified AECs for the associated COPCs (**Table 6.1**).

6.1.4 Define the Study Boundaries

The lateral study boundaries are limited to the site as shown on **Figure 2.** The vertical extent of the investigation was to a maximum depth of 1.5 m, 0.5 m into natural materials.

Seasonality was not assessed as part of this investigation. Data is therefore representative of the timing and duration of the current investigation in which site inspection and sampling occurred.

6.1.5 Develop a Decision Rule

Analytical data for potentially contaminated media was assessed against NSW EPA endorsed criteria as identified in **Section 7**.

Statistical analysis of the soil data set was undertaken, if required, in accordance with relevant guidance documents. The following statistical criteria were adopted:

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

The decision rules adopted to answer the decisions identified in **Section 6.1.2** are summarised in **Table 6.1**.

Table 6.1 Summary of Decision Rules

Decisions Required to be Made	Decision Rule
1. Are there any unacceptable risks to on-site future receptors from soils/sediments or groundwater/surface water?	Analytical data was compared against EPA endorsed criteria. The criteria in **Section 7.2** were adopted with respect to soil/sediment and groundwater/surface water. If the statistical criteria were satisfied, the answer to the decision was **No**. If the criteria were not satisfied, the answer to the decision was **Yes**.
2. Are there any chemical mixtures?	Were there more than one group of contaminants present which increase the risk of harm? If there is, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
3. Are there any aesthetic issues?	If there were any ACM fragments on the ground surface, any unacceptable odours or soil discolouration, or excessive extraneous/foreign/waste materials, the answer to the decision was **Yes**. Otherwise, the answer to the decision was **No**.
4. Is there any evidence of, or potential for, migration of contaminants from the site?	Based on assessment results, was there any evidence of, or the potential for, migration of unacceptable contaminant concentrations to migrate from the site? If yes, the answer to the decisions was **Yes**. Otherwise, the answer to the decision was **No**.
6. Is a site management strategy required?	Is the answer to any of the above decisions Yes? If **Yes**, a site management strategy is required. If **No**, a site management strategy is not required.
6. Are there any data gaps?	Were there any data gaps identified that require further investigation. If **Yes**, further investigation is required. If **No**, no further investigation is required.

6.1.6 Specific Limits on Decision Errors

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

Specific limits for this project have been adopted in accordance with the appropriate guidance from the NSW EPA and NEPC (2013) and appropriate indicators of data quality (DQIs) established for the project as discussed below in relation to precision, accuracy, representativeness, comparability, completeness and sensitivity (PARCCS parameters). The acceptable limit on decision error is 95 % compliance with DQIs.

The DQIs and data assessment criteria are summarised in **Table 6.2**.

- **Precision** - measures the reproducibility of measurements under a given set of conditions. The precision of the laboratory data and sampling techniques is assessed by calculating the Relative Percent Difference (RPD) of duplicate samples.
- **Accuracy** - measures the bias in a measurement system. The accuracy of the laboratory data that are generated during this study is a measure of the closeness of the analytical results obtained by a

method to the 'true' value. Accuracy is assessed by reference to the analytical results of laboratory control samples, laboratory spikes and analyses against reference standards.

- **Representativeness** – expresses the degree which sample data accurately and precisely represent a characteristic of a population or an environmental condition. Representativeness is achieved by collecting samples on a representative basis across the site, and by using an adequate number of sample locations to characterise the site to the required accuracy.
- **Comparability** - expresses the confidence with which one data set can be compared with another. This is achieved by 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 determined by there being sufficient valid data generated during the study.
- **Sensitivity** – expresses the appropriateness of the chosen laboratory methods, including the limits of reporting, in producing reliable data in relation to the adopted site assessment criteria.

Table 6.2 Data Quality Indicators

Data Quality Indicators	Frequency	Data Quality Criteria
Precision		
Split duplicates (intra laboratory)	1/20 samples[1]	<50% RPD[1]
Blind duplicates (inter laboratory)	1/20 samples[1]	<50% RPD[1]
Laboratory Duplicates	1/20 samples	<50% RPD[1]
Accuracy		
Surrogate spikes	All organic samples	70-130%
Laboratory control samples	1 per lab batch	70-130%
Matrix spikes	1 per lab batch	70-130%
Representativeness		
Sampling appropriate for media and analytes	All samples	-[2]
Samples extracted and analysed within holding times.	-	Soil: organics (14 days), inorganics (6 months)
Laboratory Blanks	1 per lab batch	< LOR
Trip spike	1 per lab batch	70-130% recovery
Storage blank	1 per lab batch	<LOR
Rinsate sample	1 per sampling event when non-disposable sampling equipment used	<LOR
Comparability		
Standard operating procedures for sample collection & handling	All samples	All samples
Standard analytical methods used for all analyses	All samples	National Association of Testing Authorities (NATA) accreditation
Consistent field conditions, sampling staff and laboratory analysis	All samples	All samples[2]

Data Quality Indicators	Frequency	Data Quality Criteria
Limits of reporting appropriate and consistent	All samples	All samples[2]
Completeness		
Sample description and COCs completed and appropriate	All samples	All samples[2]
Appropriate documentation	All samples	All samples[2]
Satisfactory frequency and result for QC samples		95% compliance
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted Site assessment criteria	All samples	LOR<= Site assessment criteria

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

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

6.2 Optimise the Design of Obtaining Data

Various strategies for developing a statistically based sampling plan are identified in EPA (2022), including judgemental, random, systematic and stratified sampling patterns. For an area of greater than 5 ha, EPA (2022) recommends a stratified approach by dividing sites into smaller areas.

Based on the desktop review and findings of previous investigations (**Section 4**), areas of low, moderate and high risk were identified. As such, a sampling approach was undertaken to ensure appropriate sampling densities were achieved within accessible areas, with higher densities adopted in areas of greater risk as outlined in **Table 6.3** below.

Table 6.3 Sampling Density Risk Score

Location	Risk	Area	Adopted Sampling Density
Pastoral agricultural land	Low	~50 ha	2 Samples / hectare 100 sample locations
Disturbed soils which comprise predominately reworked natural material	Moderate	12 000 m^2	1 x EPA (2022) 22 Sample Locations
Residential area and stockpiled fill material identified to contain bonded ACM	High	Residential Area: 1 500 m^2 Stockpiled Material: 830 m^2	2 x EPA (2022) 36 Sample Locations

It is noted the sampling density employed during the investigation was greater than the density required by EPA (2022). Based upon the objectives of the investigation and the available site use information, the density of the investigation undertaken is considered appropriate.

The site had been used for low intensity agricultural purposes, therefore, there was the potential for PFAS to be present on the site, therefore, a limited soil sampling program was included in intrusive investigations.

6.2.1 Soil/Sediment Sampling Methodology

The adopted soil sampling methodologies for the assessment outlined herein were completed via mechanical and manual advancement of soil sampling locations using an excavator or hand auger and the collection of soil samples, conducted in general accordance with the requirements of NEPC (2013) and other relevant EPA made or endorsed guidelines. A shovel was used to obtain grab samples of near surface soils for PFAS analysis.

To assess for COPC identified in **Table 5.1**, discrete 500 mL bag samples and 250 mL jar samples of soil were collected at regular intervals based on the encountered strata at each sample location. Soil samples for PFAS analysis were collected in appropriate laboratory supplied containers. Discrete soil samples were collected as grab samples and taken directly from the hand excavator bucket to avoid the loss of volatile compounds and immediately transferred to laboratory supplied sample jars. A new pair of nitrile gloves was worn for each sample. The sample containers were then transferred to a chilled esky for sample preservation prior to and during shipment to the testing laboratory. A chain-of-custody form was completed and forwarded with the samples to the testing laboratory. Based upon field observations, samples were analysed in accordance with the analytical schedule detailed in **Table 6.4.**

Not all samples collected were analysed. Specific samples were chosen for analysis based on the findings of the previous investigations, desktop review, field observations and to provide detailed and broad site contamination characterisation.

For QA/QC purposes, as part of investigations (**Section 4**) field duplicates and triplicates were planned at a rate of 1/20 primary samples or 1/10 samples for PFAS. Rinsate samples were obtained from non-disposable sampling equipment and trip spike and trip blank samples accompanied sampling events where appropriate/required. Standard industry methods were implemented by suitably qualified, trained and experienced consultants. It is noted not all QA/QC samples were utilised, however the methodology allowed for collection of data able to be relied upon for the investigation objectives.

During the collection of soil samples, features such as seepage, discolouration, staining, odours and other indicators of contamination were noted. A calibrated Photo Ionisation Detector (PID) was utilised to screen for volatile organic compounds (VOCs) within the sampled material.

6.2.2 Surface Water Sampling

Surface water samples were obtained using an extendable pole with collector attachment and/or a disposable bailer. At each location, measurement of field parameters including pH, salinity, redox potential, dissolved oxygen and temperature was completed following stabilisation (1 to 5 minutes) using a multi-parameter probe/meter and a flow cell. Calibration records are provided in **Appendix I**. Grab samples were collected in appropriate laboratory supplied containers for PFAS analysis. During the sampling of surface water at each location, features such as discolouration, sheen and odours or other indicators of contamination were reported on field forms. Collected samples were transferred to appropriate containers and transported to the laboratory as per the methodologies outlined for soil samples above.

Samples were analysed in accordance with the laboratory schedule (refer to **Table 6.4**). Sample locations are shown on **Figure 4**.

6.2.3 Groundwater Sampling

During the investigation, three existing groundwater monitoring wells (MW01 to MW03) were identified at the site. The wells were positioned up and down gradient of the residential area, and observed to target the former maintenance/workshop. Wells were dipped using an oil/water interface probe to gauge standing water levels. All wells were observed to be installed between 2.5 m and 8.9 m bgs and were dry at the time of the assessment. As such, no sampling or analysis of groundwater was undertaken as part of the current investigation.

6.2.4 Duplicate and Triplicate Sample Preparation

Investigations by JBS&G involved the collection of samples from selected locations using standard operating procedures including equipment decontamination and replication, whereby sufficient media was collected to provide a primary, blind (intra-laboratory) duplicate and split (inter-laboratory) duplicate (triplicate) samples.

The collected soil samples were collected with minimal disturbance to reduce the potential for loss of volatiles and placed into appropriate sample containers.

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

6.2.5 Decontamination

Prior to the commencement of sampling activities, non-disposable sampling equipment (hand tools/auger/excavator bucket) was cleaned with a water/detergent spray followed by rinsing with potable water. The equipment was then inspected to ensure that no soil, oil, debris or other contaminants were apparent on the equipment prior to the commencement of works. Decontamination records are provided in **Appendix I.**

Sampling equipment was subsequently decontaminated using the above process between each sampling location.

6.2.6 Laboratory Analysis

JBS&G contracted Eurofins Environment Testing (Eurofins) as the primary laboratory and Envirolab Services (Envirolab) and Australian Laboratory Services (ALS) as the secondary laboratories for the required chemical analyses. Eurofins, Envirolab and ALS were NATA accredited for the required analyses. In addition, the laboratories were required to meet JBS&G's internal QA/QC requirements.

The following **Table 6.4** summarises the analysis schedule as completed as part of the current investigation, which forms part of the DSI outlined herein.

Table 6.4 Analytical Schedule

Sample Type	No. of Sampling Locations	Analyses
Soil/Sediment	164 Locations (soil) 41 additional soil locations for PFAS 4 Locations (sediment)	Heavy Metals (As, Cd, Cr, Cu, Hg, Ni, Pb, Zn) – 64 samples PAH – 61 samples TRH)/BTEX – 41 samples OCP – 21 samples OPP – 3 samples PCB – 19 samples Asbestos (500 mL) – 63 samples PFAS – 41 samples pH/cation exchange capacity (CEC)/% clay – 3 samples Australian Standard Leachate Procedure (ASLP) – 5 samples Toxicity Characteristic Leachate Procedure (TCLP) – 5 samples
Surface Water	5 Locations	Heavy Metals - 5 Samples PAHs (low levels) - 5 samples Ammonia/Nitrite/Nitrate - 5 samples pH/total suspended solids (TSS) - 5 Samples TRH/SVOC/VOC – 1 sample PFAS – 5 samples

A rinsate sample was obtained from non-disposable sampling equipment throughout the sampling activities and submitted for analysis at the completion of the sampling event.

7. Assessment Criteria

The following outlines the criteria adopted as part of the current assessment and as relevant to the evaluation of the site data set (inclusive of data as presented in historic investigations outlined in **Section 4**.

7.1 Regulatory Guidelines

The following guidelines are applicable to the site:

- National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended 2013, National Environment Protection Council, 2013 (NEPC 2013);
- Waste Classification Guidelines, NSW EPA, 2014 (EPA 2014);
- Contaminated Sites: Sampling Design Guidelines, NSW EPA, 2022 (EPA 2022);
- Contaminated Sites: Guidelines for Consultants Reporting on Contaminated Sites, NSW EPA, 2020 (EPA 2020);
- Contaminated Land Management: Guidelines for the NSW Site Auditor Scheme (3rd edition), NSW EPA, October 2017 (EPA 2017);
- PFAS National Environmental Management Plan 3.0, National Chemicals Working Group of the Heads of EPA Australia and New Zealand (PFAS NEMP, HEPA 2025);
- Guidelines for the Assessment Remediation and Management of Asbestos-Contaminated Sites in Western Australia, May 2009. Western Australia Department of Health (DOH), (DOH 2009);
- Australia and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018); and
- *Guidelines for Managing Risks in Recreational Water.* National Health and Medical Research Council, Canberra (NHMRC 2008).

7.2 Assessment Criteria Selection

7.2.1 Soil and Sediment Assessment Criteria

The proposed development and ongoing use of the site is equivalent to a NEPC (2013) land use scenario of commercial/industrial (Health Investigation Level (HIL) D). Concentrations of contaminants in soil were compared against Health Investigation Levels/Health Screening Levels (HILs/HSLs), and Ecological Investigation Levels/Ecological Screening Levels (EILs/ESLs), as outlined below:

- HILs: HIL D – Commercial/Industrial;
- HSLs: HSL D – Commercial/Industrial (Clay - fine textured soils);
- EILs and ESLs: Commercial/Industrial (aged soils);
- Management Levels for Commercial/Industrial (Clay - fine textured soils) (NEPC 2013); and
- Aesthetic considerations as per NEPC (2013).

Where there are no NSW EPA endorsed thresholds for individual contaminants of concern the laboratory LOR was adopted as an initial screening value for the purposes of this assessment.

Results of sediment laboratory analysis have been compared against soil criteria, noting that surface water dams will be emptied as part of site redevelopment and sediments at the base of dams will dried and effectively comprise soils.

In addition to NEPC (2013) HSLs for asbestos in soil, the assessment has considered a criterion of an absence of visible asbestos to achieve the objectives of the investigation.

Aesthetics were also considered in the assessment of site suitability consistent with EPA (2017) and NEPC (2013).

Table 7.1 below details derived soil EILs as per NEPC (2013) guidance. Note, pH and CEC are calculated averages based on reported values (**Table A, Appendix B**). This is considered appropriate given fill material and natural generally comprised silty clays. All EIL values are in mg/kg unless otherwise specified.

Table 7.1 Derivation of Soil EILs

Physical Parameters	
pH (pH units)5	**CEC (meq/100g)5**
7.3	26
Investigation Levels	
Contaminant	**EIL - Commercial and Industrial Land Use (mg/kg)**
Chromium (III)	680[1]
Copper	340
Nickel	550
Zinc	1400

[1] Based on a conservative assumption of 10% clay content.

7.2.2 Groundwater and Surface Water Assessment Criteria

Groundwater and surface water analytical data evaluated as part of the site wide investigation has been compared against the following groundwater criteria:

- Criteria for the 95% protection in freshwater ecosystems presented in ANZG (2018);
- Groundwater Investigation Level (GIL) for fresh water as presented in NEPC (2013);
- Groundwater Health Screening Levels, HSL D (vapour intrusion for clay 2-<4m) for specified VOCs;
- Groundwater Health Screening Levels, HSL D (vapour intrusion for clay 4-<8m) for specified VOCs;
- Criteria for recreational water (factor of 10 times applied) as presented in NHMRC (as amended Oct 2017); and
- Ecological criteria provided in PFAS NEMP (HEPA 2025).
- Groundwater investigation levels (GILs) for drinking water, as presented in NEPC (2013), and drinking water guidelines provided in the PFAS NEMP (HEPA 2025) were not considered applicable as part of this investigation due to the presence of saline groundwater in the area and the availability of reticulated potable water in the area.

8. Quality Assurance/Quality Control

The results of the quality assurance and quality control (QA/QC) assessment are provided in **Appendix J**.

In summary, based on the results of the QA/QC assessment the field sampling and handling procedures across the site produced QA/QC results which indicate that the soil data collected as part of the intrusive investigation is of an acceptable quality for the current investigation objectives.

The NATA certified laboratory reports indicate that the project laboratories were achieving levels of performance within its recommended control limits during the period when the samples from this program were analysed.

Based on the results of the field and laboratory QA/QC program, the soil data is of an acceptable quality upon which to draw conclusions regarding the environmental condition of the site.

9. Results

9.1 Soil Results

Soil sampling results collected as part of the investigation are summarised in the following sections. Sample locations are shown on **Figure 4**, field logs are provided in **Appendix K**.

Soil analytical results are summarised in **Tables A**, **B** and **C** in **Appendix B** and detailed laboratory certificates of analysis are included in **Appendix L.** Details pertaining to the analysis are summarised in the following sections.

9.1.1 Field Observations

Fill materials with notable foreign inclusions were generally restricted to two areas of the site, as summarised below. Photographs of encountered lithologies are provided in **Appendix A**.

Residential Area – Area of Former Buildings (Adjacent Central Western Portion along Northern Boundary)

- Grey brown, gravelly clay with varied inclusions of igneous road base gravel, large rock boulders, scrap metal, building waste (brick/concrete) at most sample locations to a depth of between 0.1 m and 0.3 m bgs; and
- Light brown homogenous sand at TP131A restricted to a small stockpile (<5 m^3).

Stockpile Material (Central South)

- Heterogeneous brown/grey sandy/silty clay with inclusions of sandstone, igneous gravel, large (0.5-1 m) fragments of concrete, bitumen, asphalt, scrap metal, plastic conduits, building waste (timber, tile, terracotta) and bonded ACM (**Photograph 7**).

Anthropogenic waste was observed at the site surface within the residential area in 2020 (**Photograph 16**), and isolated other locations across the site (**Figure 3a** and **Figure 3b**). One location (TP130) underlying an abandoned ~200 L metal drum reported visible hydrocarbon/staining (in the form of a tacky, semi-solid black substance) extending into underlying natural material to a depth of 1 m bgs (**Photographs 13** and **15**) was observed in the 2020 site inspection. No odours or elevated PID readings were noted during the investigation.

Reworked natural fill material identified at the site surrounding a series of retention ponds and to the north of the residential area was observed to be free from indicators of contamination and/or anthropogenic materials and predominately comprised a red-brown silty clay with varied inclusions of small shale/ironstone gravel (**Photograph 19**). Building waste (brick and concrete) was observed at the site surface at several upgradient dam embankments (stabilisation). ACM conduit fragments were observed at one location (**Photograph 17**).

Natural material underlying fill and/or reworked natural soils comprised a firm red brown and yellow silty clay. Some locations (typically near alluvial channels) reported residual clays with trace fine sand and small gravels.

9.1.2 Heavy Metals

Heavy metal concentrations were reported below the adopted human health-based criteria.

With the exception of 1900 mg/kg zinc in sample RZ07 0-0.1, exceeding the adopted EIL of 1400 mg/kg, heavy metal concentrations were below ecological criteria. The zinc concentration at RZ07 is considered to be associated with galvanised metal associated with former structures or stored materials.

JBS&G note established vegetation including several large eucalypt trees in vicinity of RZ07 were visibly healthy and noting the proposed land use (commercial/industrial), the zinc at RZ07 is considered unlikely to represent a risk to future ecological receptors at the site.

9.1.3 PAHs

Concentrations of PAHs were reported below the adopted health-based and ecological criteria.

9.1.4 TRH/BTEX

All concentrations of TRH/BTEX were reported below the laboratory LOR for all samples submitted for analysis.

It is noted the laboratory LORs were raised for sample TP130 0.2-0.3, with: a LOR for TRH C_6-C_{10} of <2500 mg/kg, exceeding the adopted management limit of 1000 mg/kg; a LOR of TRH C_{16}-C_{34} of <5000 mg/kg equivalent to the adopted management limit and exceeding the adopted ESL (2500 mg/kg); and a LOR of TRH F2 (C_{10}-C_{16} less naphthalene) of <2500 mg/kg, exceeding the ESL of 170 mg/kg. A representative sample of overlying a tacky, semi-solid black substance was submitted for laboratory analysis which identified the absence of coal tar in the material.

All other samples submitted for analysis reported concentrations of TRH below the adopted site criteria.

9.1.5 OCPs/OPPs/PCBs

All concentrations of OCPs/OPPs/PCBs were reported below the laboratory LOR for all samples submitted for analysis.

9.1.6 Asbestos

Bonded (non-friable) ACM fragments and friable (AF/FA) asbestos were observed or detected by laboratory analysis, as summarised below.

Bonded ACM was identified surrounding the residential structures and atop/adjacent to concrete footings associated with a former maintenance/workshop area within the central north of the site. It is noted that site buildings had been demolished and removed by 2025. Bonded ACM was identified in surface soils and generally encountered to depths of between 0.05 and 0.3 m bgs. A stockpile of building and demolition material adjacent to the site entrance from Bakers Lane (within the residential area) also reported the presence of bonded ACM (TP128). Fragments of bonded ACM were also identified within stockpiles of fill material noted to contain building rubble/waste material in the central south of the site (**Figures 5** and **6**).

A total of 23 soil samples (10 L) were collected within the residential area and 16 samples (10 L) collected from stockpiled material (central south) and assessed for asbestos via asbestos field quantification during the JBS&G 2020 investigation. The sampling density was greater than the number of sampling locations recommended by DOH (2009), as per the methodology outlined in **Section 6.2.1.**

Bonded asbestos was identified within 10L AQ samples in a total of 13 sampling locations. Bonded ACM was reported at eight sample locations within the residential zone (RZ03, RZ05, RZ07, RZ08, RZ09, RZ10, RZ13 and TP128) and at five sample locations in stockpiled fill material in the central south of the site (TP105, TP105A, TP106A, TP108A and TP109) as shown on **Figure 5**. Bonded ACM was noted to be below the % w/w criterion for commercial/industrial land use at all sample locations (refer to **Table A, Appendix B**), however, observed asbestos did not meet the criterion of no visible asbestos in surface (0-0.1 m) soil. The locations where asbestos has been identified are shown on **Figure 5**.

A total of 63 soil samples collected from within the residential area, stockpiled material in the central south and from materials across the site (i.e. reworked retention pond embankments) were submitted for laboratory analysis as part of this investigation. One sample (RZ10 0-0.05) reported AF/FA at a concentration of 0.067 % w/w exceeding the adopted human health criterion (0.001 % w/w). One sample reported trace

AF/FA below the LOR and adopted HSL criterion (0.001 % w/w) at sample location RZ14A 0-0.1 at a concentration of 0.0004 % w/w.

9.1.7 PFAS

Forty-one primary soil samples were submitted for laboratory soil analysis and review of results of analysis indicated that concentrations were all below commercial/industrial health-based and ecological direct exposure criteria.

In addition, eleven samples distributed across the site were also analysed for trace PFAS for comparison for soil data against ecological indirect exposure criteria. All PFAS concentrations in these samples were below the adopted criteria. Based on the results of trace PFAS analysis for the selected samples and noting the site has historically been sued for the same purpose, namely livestock grazing, the trace PFAS analysis results for the selected samples are considered representative of PFAS in soil across the site and do not pose a potential risk to ecological receptors through indirect exposure (bioaccumulation).

9.1.8 Soil Leachate Results

Soil leachate results for TCLP and ASLP tests are presented in **Table C** (**Appendix B**) to aid assessment for waste classification and COPC migration risk respectively. Detailed laboratory certificates are provided in **Appendix L**.

TCLP

TCLP on selected samples was completed to aid preliminary waste classification. It is noted lead, nickel and chromium in soil were reported in concentrations exceeding of the EPA (2014) Contaminant Threshold (CT) 1 values at several sample locations in fill material within the residential area and stockpiled material in the central south.

TCLP results for fill samples analysed for metals indicated site fill materials are provisionally classified as general solid waste (GSW) non-putrescible, noting where co-mingled with asbestos will require classification as Special Waste as per EPA (2014) guidance. Notwithstanding, formal classification will be required in accordance with EPA (2014) prior to disposal of any material from the site.

It is anticipated natural soils underlying fill materials (excluding areas of hydrocarbon impacts at TP130) could be classifiable as VENM, as per the definition provided in the POEO Act.

ASLP

ASLP analysis was conducted on fill samples which generally reported the highest heavy metal concentrations and/or were representative of encountered fill conditions, to assess potential COPC leaching by surface water infiltration. Reported leachable heavy metal concentrations were generally low with moderate leachability of zinc (3.2 mg/L) reported at sample RZ05 0-0.1 in fill material adjacent to the former maintenance/workshop area.

Leachable concentrations of copper, lead, nickel and zinc were noted to generally exceed the adopted groundwater ecological criteria for 95% species protection (ANZG 2018, **Table C** (**Appendix A**)), noting ASLP testing provides a very conservative estimate of the potential for leachate generation within the environment.

Noting the low concentrations of heavy metals in soil, the risk of leaching significant concentrations of heavy metals to the sub surface and/or groundwater is not considered likely. The underlying natural materials (comprising silty clays) would significantly reduce the potential for vertical migration of heavy metals through the underlying natural profile.

9.2 Surface Water/Groundwater Results

Surface water sampling results collected as part of the investigation are presented in **Tables D** and **E** (**Appendix B**) and summarised in the following sections. Sample locations are shown on **Figure 4**. Four samples (SW01 to SW04) were collected from retention ponds across the site with one sample (SW05) collected from a standing water within a manmade bore associated with the former maintenance/workshop area. Detailed laboratory certificates are provided in **Appendix L**.

Results of analysis are summarised in the following sections.

9.2.1 Field Observations – Surface Water/Groundwater

Three existing wells were observed at the site and an oil/water interface probe was used to determine the presence of water in the wells. All three wells were noted to be dry at the time of the investigation. As such, no groundwater samples were collected as part of the investigation.

During the collection of surface waters, field parameters were obtained using a calibrated water quality meter via grab samples and/or taken directly from the water body. Calibration records are provided in **Appendix I**. A summary of reported field measurements following stabilisation of field parameters is provided in **Table 9.1** below.

Table 9.1 Surface Water Parameters

Well ID	DO (mg/L)	Salinity (ppm)	pH	Redox (mV)	Temperature (°C)
SW01	9.49	0.07	7.74	195.0	34.2
SW02	8.34	0.19	8.04	167.0	32.5
SW03	9.80	0.07	9.40	32.0	29.7
SW04	8.60	0.08	8.58	200.2	29.0
SW05	8.02	0.13	8.16	189.2	27.7

Surface waters were generally observed to be clear to slightly turbid (brown) with the exception of water at location SW01 which was noted to be highly turbid. Slight organic odours were noted at SW01. Based on the field parameters surface waters were generally fresh with low levels of dissolved salts. The reported pH is considered within the typical range for freshwater ponds, where diurnal fluctuations and increased carbon dioxide update by vegetation/algae during daytime (as a result of increased photosynthesis) can slightly increase pH levels. It is noted retention ponds were observed to contain peripheral flora and aquatic species of plants, including algae.

JBS&G note previous investigations (JBS&G 2020) reported a hydrocarbon sheen in settled water within a manmade bore within the former maintenance/workshop area. Observations made during the investigation outlined herein did not identify the presence of a sheen, or any other indicators of hydrocarbon contamination.

9.2.2 Laboratory Measured Physiochemical Parameters

The laboratory reported water pH between 7.1 (SW02) and 9.2 (SW03), generally consistent with field observations (**Section 9.2.1**) and considered reflective of conditions typically found in freshwater ponds. TSS were reported between 35 mg/L (SW01) and 7.4 mg/L (SW03), consistent with turbidity levels observed during the investigation.

9.2.3 Heavy Metals

Heavy metal concentrations were reported below the adopted recreational/health criteria at all sample locations. Some heavy metals concentrations were reported above the adopted site ecological criteria for 95 % species protection (ANZG 2018) at all sample locations (**Table D**, **Appendix B**).

Heavy metals within surface waters in concentrations exceeding the adopted ecological criteria are considered reflective of the underlying geology (comprising Bringelly Shale) and the surrounding urban/agricultural environmental setting and some of the surrounding areas currently undergoing extensive civil works for commercial/industrial development.

9.2.4 PAHs

All concentrations of PAHs were reported below the laboratory LOR for all samples submitted for analysis.

9.2.5 TRH/BTEX

All concentrations of TRH/BTEX were reported below the laboratory LOR for all samples submitted for analysis.

9.2.6 SVOC/VOC

All concentrations of SVOC/VOC were reported below the laboratory LOR for all samples submitted for analysis.

9.2.7 PFAS

Water samples were collected from five surface water dams on the site and analysed for PFAS with results of analysis summarised in **Table E**. Review of results of analysis indicated that with the exception of 0.02 µg/L of PFOS in W05, which exceeded the criterion for 99% species protection, but was approximately an order of magnitude below the criterion for 95% species protection.

W05 was collected from the surface water dam in the northeastern extent of the site, which has historically been used for livestock grazing consistent with the rest of the site. However, it is noted that the dam in the northeastern extent of the site receives water from off-site properties noting there were three residential dwellings (recently demolished) formerly located in upgradient locations from this dam. Noting the absence of PFAS detections in other surface water dams on the site, it is inferred that the PFOS in surface water sample W05 is derived from off-site sources on adjoining properties.

9.2.8 Ammonia

Concentrations of ammonia were reported above the laboratory LOR but below the adopted site criteria at all sample locations.

9.2.9 Nitrate/Nitrite

Concentrations of nitrate/nitrite were reported below the adopted site criteria for all samples submitted for analysis.

10. Site Characterisation

Based on the decision-making process for assessing urban redevelopment sites detailed in EPA (2017) and discussed in **Section 6.1.5**, the decisions required to be made are discussed below.

10.1 Are there any unacceptable risks to future site users from soil/groundwater/surface water?

Soil

The current investigation included the advancement of 163 soil sampling locations for general COPCs and the inspection of site materials as part the assessment. And additional 41 locations were samples for PFAS in near surface soils. With the exception of two areas (as discussed below) most advanced locations encountered reworked natural materials and natural soils at the site surface (0-0.1 m bgs). In general, foreign inclusions were typically not observed across the site and the materials were noted to have been only slightly disturbed as a result of light agricultural land uses (i.e. livestock or minor augmentation to form drainage lines). Undisturbed natural materials were encountered underlying these materials at all sample locations.

It is noted building and demolition materials (generally brick/concrete with ACM conduits observed at one location) had been applied to the upgradient banks of several surface water dams (refer to **Figure 3a**). Based on the observations made during the investigation, and advancement of test pits through the building rubble, this material was generally restricted to the site surface (i.e. did not extent into the soil profile). Whilst bonded ACM was observed at only one location, it is considered likely that bonded ACM is present within the building rubble where it has been applied to the site surface at other locations.

Bonded ACM was observed in surface soils surrounding the former residential structure (since demolished), scattered atop and adjacent to concrete footings of the former maintenance/workshop area in the central north of the site. During sampling and field screening, bonded ACM was identified within 10 L AQ samples at eight locations within the residential area. Bonded ACM was generally observed to a depth of between 0.05 and 0.03 m bgs, with an average depth of fill 0.2 m bgs across the area. A small stockpile of building/demolition rubble in the easternmost portion of the residential area (fronting Bakers Lane) was also identified to contain bonded ACM (TP128). Friable asbestos was reported in exceedance of the adopted health criterion at one sample location (RZ10 0-0.05) and below criterion at RZ14A (0-0.1m).

An elongated embankment of stockpiled material within the central south of the site was noted to contain anthropogenic waste (large concrete, scrap metal, building waste etc) and fragments of bonded ACM. The stockpiled was noted to have an average height of 1 m and covered an area of approximately 850 m^2.

Based on visual observations and the analytical results, fill material containing asbestos (bonded and friable) and anthropogenic waste in fill and at the site surface was considered to be mostly constrained to two areas, the extents of which are outlined on **Figure 5**. It is estimated there is approximately 300 m^3 of material impacted with bonded asbestos and <5 m^3 of material impacted with friable asbestos within the residential area. It is estimated there is approximately 850 m^3 of material impacted with bonded ACM within stockpiled material in the central south.

Asbestos concentrations at one location (RZ10) exceeded the commercial/industrial landuse criteria and requires remediation and management. Asbestos at the remaining locations where asbestos was identified did not meet the criterion of no visible asbestos for surface soils (0-0.1 m) and require remediation/management.

One location (TP130) advanced underlying a petroleum drum within the residential zone identified hydrocarbon impact (visual staining) to a depth of approximately 1 m bgs. Representative samples submitted for laboratory analysis did not report the presence of coal tar or TRH or other petroleum-related COPC above the laboratory LOR, however some LORs in this location were raised above adopted ESLs and Management

Limits and as such are considered to exceed adopted site criteria. Based on field observations it is anticipated the impact may be limited in extent (1 m depth over an area of approximately 4 m^2).

Leachable concentrations of heavy metals and PAHs in site fill material were reported to be generally low and not considered to pose an unacceptable risk to site receptors or groundwater under the proposed commercial/industrial land use (**Section 9.1.4**).

It is noted historic investigations identified potential hydrocarbon sheen within a maintenance bore within the residential zone. It is noted historic land uses were unlikely to have involved the storage/use of large volumes of chemicals and/or hydrocarbons and, as such, there is unlikely to be the potential for significant contamination underlying the bore. The potential for the vertical movement of contamination would also be mitigated by the underlying low permeability silty clays. As such, should contamination be present underlying the bore it will be limited in nature and extent, and unlikely to have material implications to the proposed redevelopment or suitability of the site for commercial/industrial land use.

No sampling/analysis was conducted in vicinity/underlying current sewerage infrastructure (septic tank). Validation that no contamination has occurred to adjacent/underlying soils may be required following removal of the infrastructure.

Sediment

As noted in **Section 7**, as part of site redevelopment, surface water dams will be drained and sediments in dams dried for potential on-site re-use, subject to geotechnical suitability. Therefore, sediments have been assessed against applicable soil criteria for commercial/industrial use and no potential contamination issues were identified on dam sediments.

Surface Water and Groundwater

As discussed in **Section 9.2.1**, three existing groundwater monitoring wells (MW01 to MW03) were observed to be dry at the time of inspection (to a maximum depth of 8.94 m below top of casing (btoc)). The wells were observed to have been installed up and down gradient of the residential area, with two wells appearing to target groundwater downgradient of the former maintenance/workshop area. The installed monitoring wells were varied in depth between approximately 2.5 m and 8.9 m btoc, and all three wells were dry at the time of the investigation. It is noted the residential area is situated atop a topographical high point, where groundwater is anticipated to be encountered at depths greater than 10 m bgs.

In the absence of gross contamination identified to soil or surface waters, JBS&G consider it likely that concentrations of COPC in groundwater would be reflective of the sites urban/agricultural setting and the underlying geology. Groundwater is anticipated to be saline in nature and in the absence of complete source receptor pathways or beneficial re-use opportunities, groundwater is not considered to present a risk at the site under the proposed commercial/industrial land use.

Concentrations of COPC in surface waters at the site did not exceed the adopted human health (recreational) criteria (NEPC 2013). Some heavy metal concentrations were noted to exceed the adopted ecological criteria for 95 % species protection. Concentrations of heavy metals in surface waters exceeding the adopted ecological criteria are considered reflective of the underlying geology (Bringelly Shale) and the surrounding urban/agricultural environmental setting. Surface water conditions were reported to be consistent at all sampled locations (up and down gradient) indicative of regional background conditions. As such, the reported heavy metal concentrations are unlikely to pose a significant risk to the downgradient ecological receptors of South Creek. Similarly, PFOS in one surface water sample (W05) exceeded the 99% species protection, however, the PFOS impact is inferred to be from an upgradient off-site source.

With consideration to the heavy metal concentrations in surface water and PFOS in one water sample, and in accordance with the POEO Act, treatment of surface water would be required prior to discharge of waters to either stormwater or the receiving environment (i.e. South Creek) under an appropriate dewatering licence and/or wastewater trade agreement (WWTA). However, comparison of the data to relevant criteria for irrigation (ANZECC 2000) indicates that dewatering of the dams via irrigation on-site may be a viable option.

No evidence of a sheen or hydrocarbon contamination was observed within the manmade bore (former maintenance/workshop area) as part of the investigation (**Section 9.2.1**). It is noted standing water levels within the bore were notably higher than previous observations, indicating the likely accumulation of rainwater within the bore. No concentrations of TRH/BTEX of volatile compounds were reported above the LOR for sample SW05 collected from the manmade bore within the former maintenance/workshop area as part of the current investigation. Based on the results of analysis for the water sample collected from this bore, it is possible hydrocarbons have broken down/dissipated over time or the previously observed sheen may have been a microbial sheen rather than petroleum hydrocarbon based.

10.2 Are there any chemical mixtures?

There were no potential chemical mixtures identified during the investigation that may pose an unacceptable contamination issue with respect to the proposed commercial/industrial development.

10.3 Are there any aesthetic issues?

Site inspection in 2020 did not identify the presence of odorous soils. One location (TP130) identified staining/hydrocarbon impact underlying a disused petroleum style drum to a depth of approximately 1 m bgs. Stained soil at this location is considered to represent an aesthetic issue.

Based on this assessment, asbestos containing materials at the site surface in the residential area (associated with deterioration of the former site structures, and in stockpiled material in the central south of the site are considered to represent an unacceptable aesthetic issue. Further, anthropogenic waste (large concrete, asphalt, scrap metal, bath tubs, tyres, machinery, metal fencing, etc.) identified within soil in the residential area and stockpiled material in the central south (co-mingled with asbestos) and at the surface of the site across the residential area and at isolated areas elsewhere on-site are considered to potentially represent an aesthetic issue (in accordance with NEPC (2013)), which may require remediation and/or management.

10.4 Is there any evidence of, or potential for, migration of contaminants from the site?

The potential for migration of contaminants across most of the site was considered to be low, based on the following:

- COPC were generally identified to be in solid form (asbestos and heavy metals);
- The absence of identified contaminant impacts in subsurface soil below fill material;
- Migration through subsurface groundwater infiltration is considered to be greatly reduced by the underlying natural silty clays and substantially limited under a proposed commercial/industrial land use, anticipated to comprise hardstand pavements across most of the site;
- The migration of ACM and/or fibrous asbestos is unlikely where identified within *in-situ* fill material (in the absence of ground disturbance); and
- The absence of significant contaminant impacts in surface water.

10.5 Is a site management strategy required?

Based on the findings of this investigation, it is considered the site can be made suitable for the intended commercial/industrial use subject to the preparation of a RAP to address the identified impacts without ongoing management. Alternatively, the site can be made suitable subject to capping and containing asbestos impacted materials that exceed the commercial/industrial landuse criteria

10.6 Are there any data gaps?

JBS&G consider data gaps exist surrounding existing sewerage infrastructure and underlying the manmade bore within the maintenance/workshop area, which was historically identified to potentially contain hydrocarbon impacted water. It is noted that should impact be present underlying existing infrastructure/manmade bore, contamination is likely to be limited in extent and unlikely to have significant implications to the proposed redevelopment or suitability of the site for commercial/industrial land use.

It is anticipated these data gaps can be addressed during future remedial works (following removal of infrastructure) and will form part of the site validation to ensure the site is suitable for its proposed commercial/industrial land uses, in accordance with the R&H SEPP requirements.

11. Conclusions and Recommendations

The following summaries the findings of the investigation, based on the scope of work and subject to the limitations in **Section 12**:

- Most of the site area comprises land which has historically been undeveloped and/or utilised for agricultural purposes including grazing;
- The investigation included advancement of 164 soil sampling locations for general COPCs, with a further 41 locations assessed for PFAS. With the exception of asbestos impacts, COPCs concentrations were below the adopted health criteria in sample submitted for laboratory analysis.
- A zinc concentration exceeding the adopted ecological criterion in soil at one location is considered not to pose an unacceptable risk to site receptors;
- One sample (TP130 0.2-0.3) which reported TRH concentrations exceeding the adopted ESL and Management Limits and noted to be impacted with hydrocarbon/staining was considered to pose an aesthetic issue which will require remediation/management;
- Asbestos impacts in soil were noted in two areas at the site, the residential area (central north) and within stockpiled fill material in the central south. Bonded ACM was noted at the site surface in both areas, exceeding the criterion of no visible asbestos in surface soils, and require remediation/management;
- Asbestos quantification reported bonded ACM in 10 L samples at eight locations within the residential zone and five locations in stockpiled fill material in the central south. The following is noted;
    - Approximately 300 m^3 of bonded ACM impacted fill was identified within the residential area;
    - Approximately 850 m^3 of stockpiled fill material in the central south;
    - One location (RZ10 0-0.05) contained AF/FA and bonded ACM at concentrations exceeding the adopted health-based criteria (approximately <5 m^3);
- Brick/concrete rubble was identified atop surface soils at embankments of several surface water dams. An ACM conduit was identified at one location. Noting the consistent composition, brick/concrete rubble, all locations are considered to potentially contain bonded ACM fragments, which will require remediation/management;
- Scattered anthropogenic waste was identified within in-situ soil within the residential zone and stockpiled material in the central south (co-mingled with asbestos) and identified at the site surface at isolated locations across the site. It is estimated there is approximately 220 m^3 of waste which will require remediation/management;
- Surface water samples contained heavy metals in concentrations exceeding the adopted ecological criteria and PFOS was detected in one water sample exceeding adopted 99% ecological screening criterion. Noting the surface water dams will not form part of the proposed development surface water does not pose a risk to future site receptors;
- Groundwater was not encountered within the three existing groundwater monitoring wells at the site. In the absence of identified significant soil or surface water contamination, groundwater assessment is not warranted;
- A septic tank of unknown volume was identified to the south of the former residential dwelling, which, along with soils underlying the manmade bore, will require additional investigation to assess for the potential for contamination. It is anticipated that if contamination exists underlying/surrounding infrastructure/manmade bore, it will likely be limited in extent.

Based on the results of the investigation and subject to the limitations in **Section 12**, JBS&G concludes the site can be made suitable for the proposed commercial/industrial land use subject to remediation/management of identified contamination.

JBS&G recommends that a RAP be prepared to describe the required remediation and validation works to ensure the site is suitable for the proposed commercial industrial land use. A small portion of the adjoining land (part Lot 180 DP1290397 to the south and part Lot 40 DP 708347 to the east), parts of future roads, was inaccessible during the investigation, and as such additional data gap / validation assessment will be required in these portions of the site which should be stipulated in the validation plan in the RAP.

Due to the presence of asbestos on-site, is it recommended that an interim AMP be prepared to address identified asbestos impacts considered to pose a potential WHS risk, until such time as the impacts are removed.

12. Limitations

This report has been prepared for use by the client who has commissioned the works in accordance with the project brief only, and has been based in part on information obtained from the client and other parties. The report has been prepared specifically for the client for the purposes of the commission, and no warranties, express or implied, are offered to any third parties and no liability will be accepted for use or interpretation of this report by any third party.

The advice herein relates only to this project and all results conclusions and recommendations made should be reviewed by a competent person with experience in environmental investigations, before being used for any other purpose. This report should not be amended in any way without prior approval by JBS&G, or reproduced other than in full including all attachments as originally provided to the client by JBS&G.

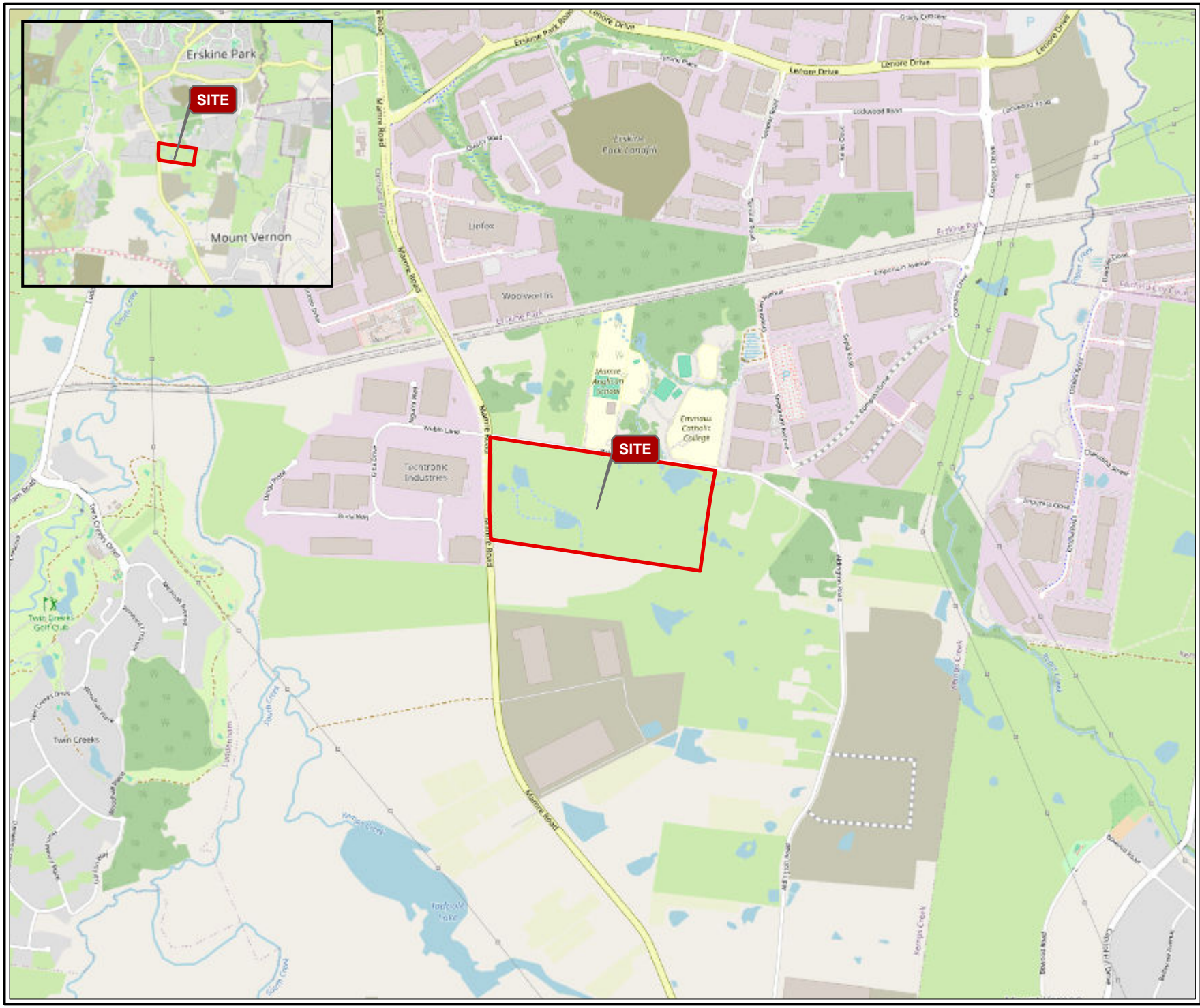
Sampling and chemical analysis of environmental media is based on appropriate guidance documents made and approved by the relevant regulatory authorities. Conclusions arising from the review and assessment of environmental data are based on the sampling and analysis considered appropriate based on the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

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

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

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

Figures



Legend

Approximate Site Boundary

JBS&G

Job No: 70548	
Client: Plan Project Management Pty Ltd	
Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM
Scale 1:25,000	

0 230 460

metres

Coord. Sys. GDA2020 MGA Zone 56

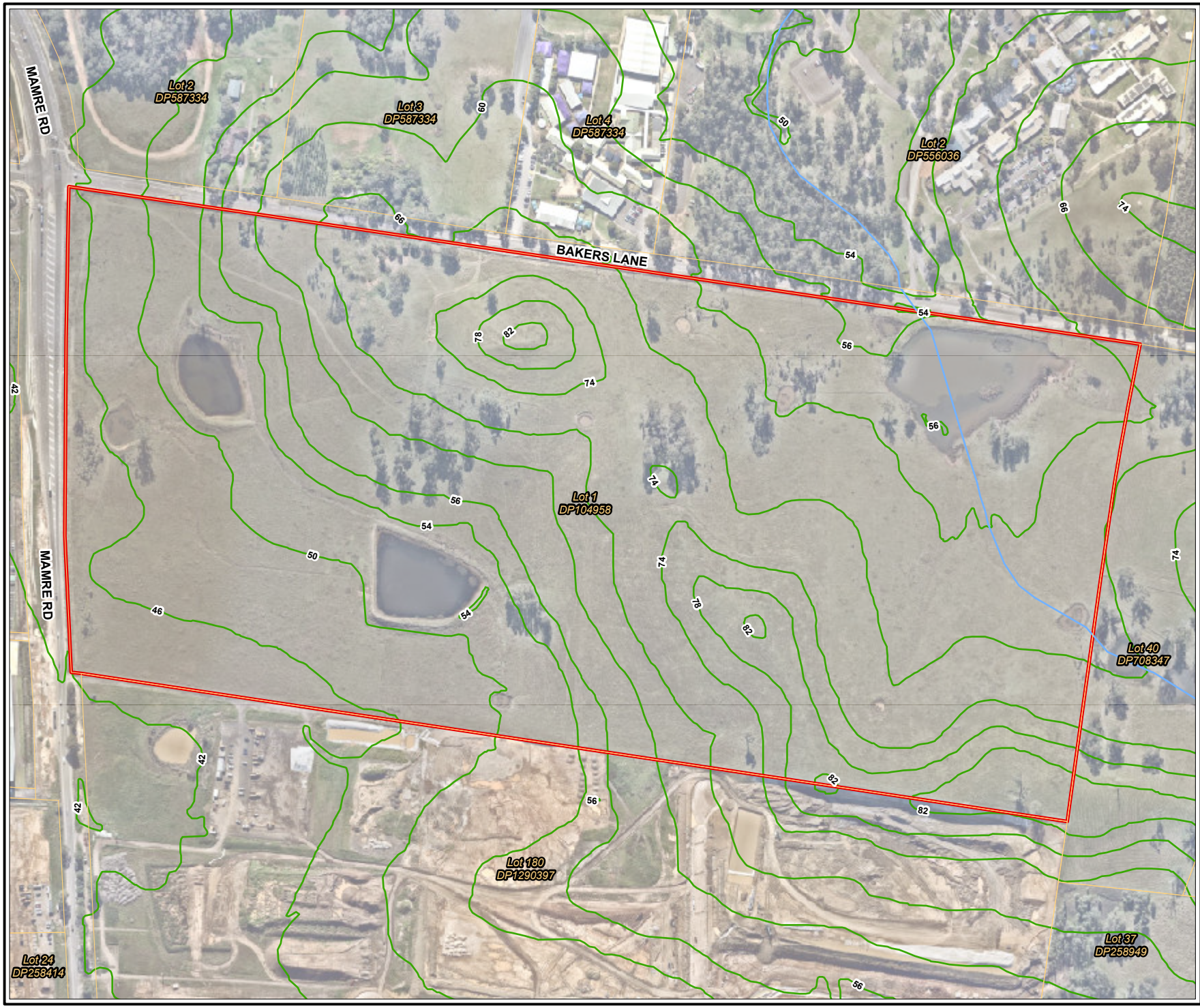
Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

SITE LOCATION

FIGURE 1

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA

Reference: © OpenStreetMap (and) contributors, CC-BY-SA



Legend

- Approximate Site Boundary
- NSW Cadastre

NSW Spatial Collaboration Portal

- 10m Elevation Contours (m AHD)
- Hydro Line

JBS&G

Job No: 70548	
Client: Plan Project Management Pty Ltd	
Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM
Scale 1:5,255	

0 40 80

metres

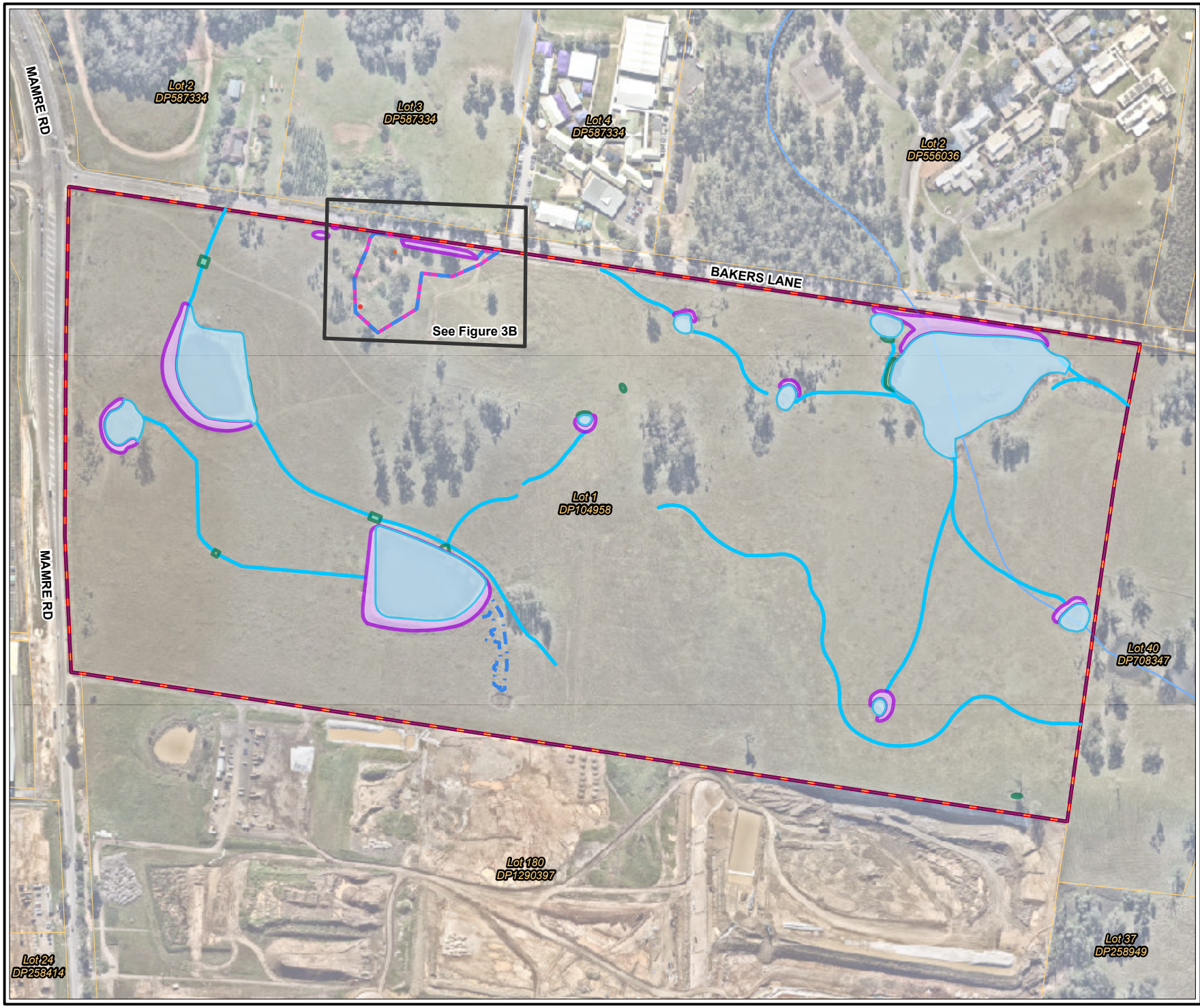
Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

SITE LAYOUT

FIGURE 2

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)
NSW Collaboration Portal - https://portal.spatial.nsw.gov.au/client/services?id=f1b1b26b23ab4574a561f890edd3bd7e



Legend

- Approximate Site Boundary
- NSW Cadastre

Areas of Environmental Concern

- AEC 1: Former rural residential and agricultural area comprising existing/f
- AEC 2: Fill of Unknown Origin
- AEC 3: Septic Tank
- AEC 4: General anthropogenic waste/ building materials (bricks, concrete cul
- AEC 5: Reworked natural filling (embankments)
- AEC 6: Pastoral agricultural land (entire site)
- AEC 7: Made surface water retention ponds and ephemeral drainage lines
- Man Made Bore / Sump

JBS&G

Job No: 70548	
Client: Plan Project Management Pty Ltd	
Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:5,255

0 40 80

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

SITE FEATURES AND AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3A

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)

Legend

- Approximate Site Boundary
- NSW Cadastre

Areas of Environmental Concern

- AEC 1: Former rural residential and agricultural area comprising existing/f
- AEC 2: Fill of Unknown Origin
- AEC 3: Septic Tank
- AEC 5: Reworked natural filling (embankments)
- AEC 6: Pastoral agricultural land (entire site)
- Man Made Bore / Sump

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:900

0 8.5 17

metres

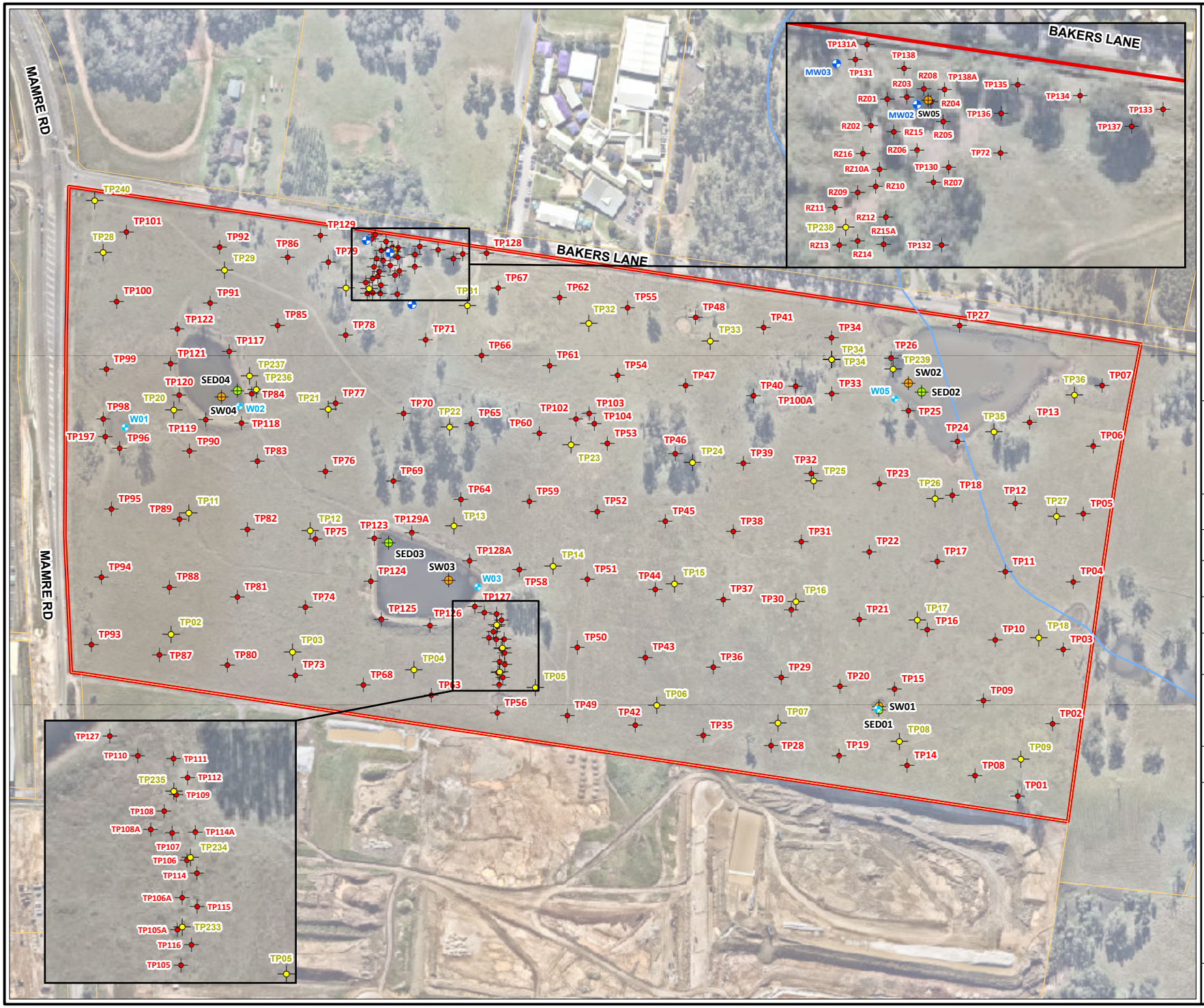
Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

SITE FEATURES AND AREAS OF ENVIRONMENTAL CONCERN

FIGURE 3B

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)



Legend

- Approximate Site Boundary
- NSW Cadastre

Sample Locations (JBS&G 2020)

- Existing Groundwater Monitoring Well (JBS&G 2020)
- Sediment (JBS&G 2020)
- Surface Water (JBS&G 2020)
- Test Pit (JBS&G 2020)

Sample Locations (JBS&G 2025)

- Surface Water Samples (JBS&G 2025)
- Test Pit (JBS&G 2025)

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:5,255

0 40 80

metres

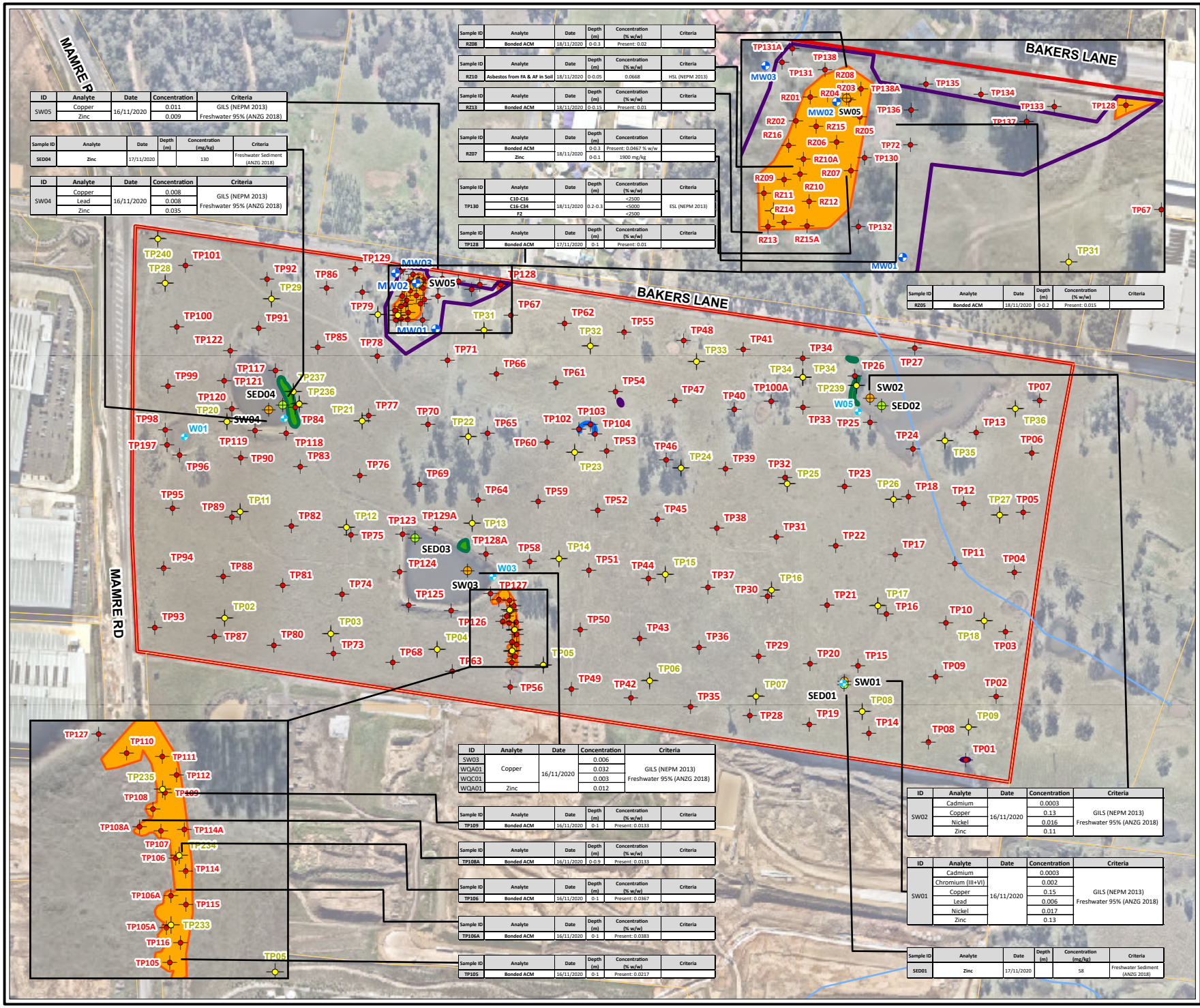
Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

SAMPLE LOCATIONS

FIGURE 4

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)



Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
RZ08	Bonded ACM	18/11/2020	0-0.3	Present: 0.02	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
RZ10	Asbestos from FA & AF in Soil	18/11/2020	0-0.05	0.0668	HSL (NEPM 2013)

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
RZ13	Bonded ACM	18/11/2020	0-0.15	Present: 0.01	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
RZ07	Bonded ACM	18/11/2020	0-0.3	Present: 0.0467 % w/w	
	Zinc		0-0.1	1900 mg/kg	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP130	C10-C16	18/11/2020	0.2-0.3	<2500	ESL (NEPM 2013)
	C16-C34			<5000	
	F2			<2500	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP128	Bonded ACM	17/11/2020	0-1	Present: 0.01	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
RZ05	Bonded ACM	18/11/2020	0-0.2	Present: 0.015	

ID	Analyte	Date	Concentration	Criteria
SW05	Copper	16/11/2020	0.011	GILS (NEPM 2013) Freshwater 95% (ANZG 2018)
	Zinc		0.009	

Sample ID	Analyte	Date	Depth (m)	Concentration (mg/kg)	Criteria
SED04	Zinc	17/11/2020		130	Freshwater Sediment (ANZG 2018)

ID	Analyte	Date	Concentration	Criteria
SW04	Copper	16/11/2020	0.008	GILS (NEPM 2013) Freshwater 95% (ANZG 2018)
	Lead		0.008	
	Zinc		0.035	

ID	Analyte	Date	Concentration	Criteria
SW03	Copper	16/11/2020	0.006	GILS (NEPM 2013) Freshwater 95% (ANZG 2018)
WQA01			0.032	
WQC01			0.003	
WQA01	Zinc		0.012	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP109	Bonded ACM	16/11/2020	0-1	Present: 0.0133	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP108A	Bonded ACM	16/11/2020	0-0.9	Present: 0.0133	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP106	Bonded ACM	16/11/2020	0-1	Present: 0.0367	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP106A	Bonded ACM	16/11/2020	0-1	Present: 0.0383	

Sample ID	Analyte	Date	Depth (m)	Concentration (% w/w)	Criteria
TP105	Bonded ACM	16/11/2020	0-1	Present: 0.0217	

ID	Analyte	Date	Concentration	Criteria
SW02	Cadmium	16/11/2020	0.0003	GILS (NEPM 2013) Freshwater 95% (ANZG 2018)
	Copper		0.13	
	Nickel		0.016	
	Zinc		0.11	

ID	Analyte	Date	Concentration	Criteria
SW01	Cadmium	16/11/2020	0.0003	GILS (NEPM 2013) Freshwater 95% (ANZG 2018)
	Chromium (III+VI)		0.002	
	Copper		0.15	
	Lead		0.006	
	Nickel		0.017	
	Zinc		0.13	

Sample ID	Analyte	Date	Depth (m)	Concentration (mg/kg)	Criteria
SED01	Zinc	17/11/2020		58	Freshwater Sediment (ANZG 2018)

Legend

- Approximate Site Boundary
- NSW Cadastre

Contamination Extents

- Anthopogenic Waste
- Building and Demolition Waste (concrete/brick)
- Building and Demolition Waste with ACM
- Friable Asbestos in Soil
- Bonded ACM in Soil

Sample Locations (JBS&G 2020)

- Existing Groundwater Monitoring Well
- Sediment
- Surface Water
- Test Pit

Sample Locations (JBS&G 2025)

- Surface Water Samples (JBS&G 2025)
- Test Pit (JBS&G 2025)

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: R01 Rev A | Date 10/09/2025

Drawn By: JL | Checked By: JDM

Scale 1:6,000

0 50 100

metres

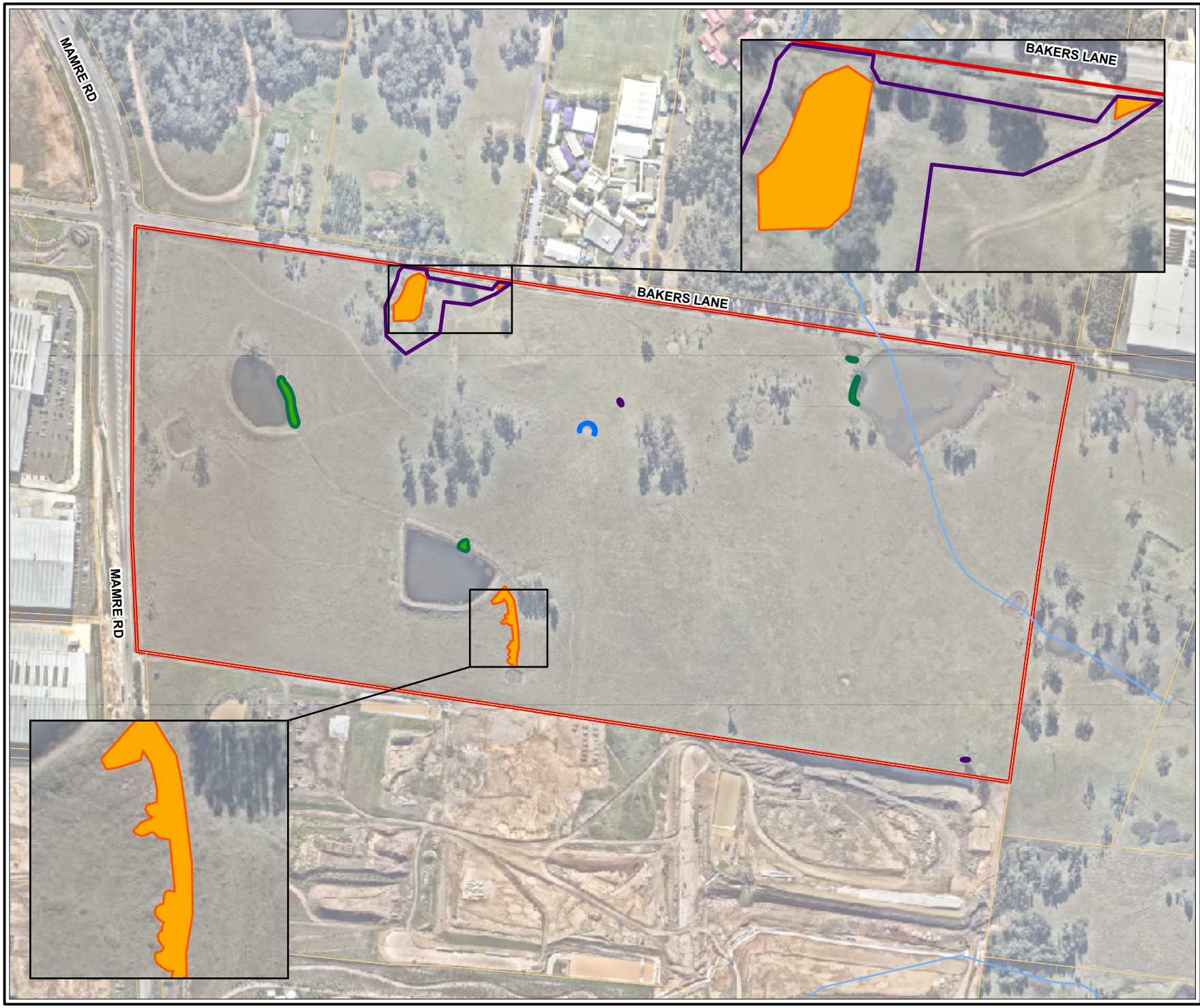
Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

EXCEEDANCES AND INFERRED CONTAMINATION EXTENTS

FIGURE 5

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)



Legend

- Approximate Site Boundary
- NSW Cadastre

Contamination Extents

- Anthopogenic Waste
- Building and Demolition Waste (concrete/brick)
- Building and Demolition Waste with ACM
- Friable Asbestos in Soil
- Bonded ACM in Soil

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: R01 Rev A	Date 10/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:6,000

0 50 100

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

AREAS OF ASBESTOS IMPACT

FIGURE 6

File Name: 70548_Lot1MamreRoadKempsCreeks_R01RevA
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)

Appendix A Photographic Log

PHOTOGRAPH 1: EASTERN PORTION OF THE RESIDENTIAL DWELLING – NOVEMBER 2020, SINCE DEMOLISHED

PHOTOGRAPH 2: INTERIOR OF THE WATER TANK NORTH-EAST OF THE RESIDENTIAL PROPERTY WITH GENERAL WASTE NOVEMBER 2020 , SINCE DEMOLISHED

PHOTOGRAPH 3: ASBESTOS QUANTIFICATION OF SOIL WITHIN THE RESIDENTIAL AREA

PHOTOGRAPH 4: BUILDING DEBRIS AND BONDED ACM IN VICINITY OF RZ10 , SINCE DEMOLISHED

JBS&G

Job No: 70548	
Client: Plan Project Management	
Version: R01	Date: 8/9/2025
Drawn By: JDM	Checked By: JDM
Not to Scale	
Coord. Sys n/a	
706-752 Mamre Road, KEMPS CREEK, NSW	

APPENDIX A

PHOTOGRAPH 5: ACM FRAGMENT OBSERVED IN STOCKPILED MATERIAL IN THE CENTRAL SOUTH

PHOTOGRAPH 6: STOCKPILE IN THE CENTRAL SOUTH OF THE SITE

PHOTOGRAPH 7: STOCKPILE IN THE CENTRAL SOUTH CONTAINING GROSS ANTHROPOGENIC INCLUSIONS

PHOTOGRAPH 8: TEST PIT INTO SOUTHERN STOCKPILE SHOWING DEPTH TO NATURAL APPROX. 1M BGS

JBS&G

Job No: 70548

Client: Plan Project Management

Version: R01	Date: 8/9/2025
Drawn By: JDM	Checked By: JDM

Not to Scale

Coord. Sys n/a

706-752 Mamre Road,
KEMPS CREEK, NSW

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PHOTOGRAPH 9: HAND AUGER INTO NATURAL IN THE SOUTH EASTERN QUADRANT

PHOTOGRAPH 10: NATURAL SAMPLE FROM HAND AUGER IN THE SOUTH EASTERN QUADRANT

PHOTOGRAPH 11: SOIL EXCAVATED IN THE NORTH WESTERN QUADRANT

PHOTOGRAPH 12: TEST PIT ALONG THE DAM WALL IN THE SOUTH WESTERN QUADRANT

JBS&G

Job No: 70548	
Client: Plan Project Management	
Version: R01	Date: 8/9/2025
Drawn By: JDM	Checked By: JDM
Not to Scale	
Coord. Sys n/a	

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PHOTOGRAPH 13: ABANDONED PETROLEUM DRUM NORTH-EAST OF THE RESIDENTIAL PROPERTY – NOVEMBER 2020

PHOTOGRAPH 14: OVERGROWN VEGETATION IN THE CENTRE OF THE PROPERTY – NOVEMBER 2020

PHOTOGRAPH 15: PETROLEUM LEACHING THROUGH SOIL BENEATH A DRUM (TP130) – NOVEMBER 2020

PHOTOGRAPH 16: GENERAL DEBRIS AND WASTE WITHIN THE RESIDENTIAL AREA – NOVEMBER 2020

JBS&G

Job No: 70548

Client: Plan Project Management

Version: R01	Date: 8/9/2025
Drawn By: JDM	Checked By: JDM

Not to Scale

Coord. Sys n/a

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PHOTOGRAPH 17: DAM IN THE CENTRE OF THE PROPERTY WITH BRICK USED AS STABILISATION (ACM IDENTIFIED) – NOVEMBER 2020

PHOTOGRAPH 18: NATURAL REWORKED MATERIAL EXCAVATED FROM A RETENTION POND EMBANKMENT

PHOTOGRAPH 19: TEST PIT IN DAM WALL IN THE WEST OF THE SITE

PHOTOGRAPH 20: NATURAL EARTH EXCAVATED NORTH OF DAM IN THE SOUTH WESTERN QUADRANT

JBS&G

Job No: 70548

Client: Plan Project Management

Version: R01 | Date: 8/9/2025

Drawn By: JDM | Checked By: JDM

Not to Scale

Coord. Sys n/a

706-752 Mamre Road,
KEMPS CREEK, NSW

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Appendix B Analytical Tables

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Metals & Metalloids								TRHs (NEPC 2013)							BTEXN							
			Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			2	0.4	5	5	5	0.1	5	5	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil			3000	900	3600	240000	1500	730	6000	400000															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																									
0-1m																310	NL	4	NL	NL			NL	NL	NL
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind			160		680	340	1800		550	1400														370	370
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil													2500	6600		215	170	95	135	185			95		
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil											800	1000	5000	10000											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																									
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																							
SED01	17/11/2020	757742	14	<0.4	32	32	20	<0.1	19	58	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SED02	17/11/2020	757742	8.8	<0.4	25	26	15	<0.1	15	36	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
SED03	17/11/2020	757742	15	<0.4	23	23	23	<0.1	11	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED04	17/11/2020	757742	38	<0.4	31	55	39	<0.1	26	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRUM1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ01_0-0.05	18/11/2020	757712	16	<0.4	20	45	15	<0.1	13	69	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ02_0-0.1	18/11/2020	757712	16	<0.4	21	30	30	<0.1	14	130	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ02_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0.3-0.4	18/11/2020	757712	19	<0.4	26	47	15	<0.1	9.2	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0-0.1	18/11/2020	757712	12	<0.4	22	30	14	<0.1	12	54	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ03_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.1	18/11/2020	757712	3.1	<0.4	130	35	21	<0.1	100	170	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ04_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.1	18/11/2020	757712	2.9	0.5	88	47	56	<0.1	110	980	<20	<50	270	<100	270	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ05_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.1	18/11/2020	757712	6.5	0.7	95	40	73	<0.1	88	680	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ06_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.1	18/11/2020	757712	14	2.4	33	58	200	<0.1	27	1900	<20	<50	130	<100	130	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ07_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.1	18/11/2020	757712	2.1	<0.4	25	12	13	<0.1	27	50	<20	<50	190	<100	190	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ08_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.1	18/11/2020	757712	9.2	0.8	32	41	120	0.1	22	610	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ09_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10_0-0.05	18/11/2020	757712	7.7	<0.4	19	42	96	<0.1	12	170	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ10A_0-0.1	18/11/2020	757712	9.1	<0.4	27	31	32	<0.1	22	69	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ10A_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ12_0-0.1	18/11/2020	757712	6.6	0.4	70	36	100	<0.1	65	260	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ13_0-0.15	18/11/2020	757712	8.2	0.4	20	35	110	<0.1	15	220	<20	<250	<500	<500	<500	<20	<250	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ14_0-0.1	18/11/2020	757712	10	0.7	44	35	180	<0.1	22	400	<20	<50	280	<100	280	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ14A_0-0.1	18/11/2020	757712	7.4	<0.4	19	34	48	0.2	13	170	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ15_0-0.1	18/11/2020	757712	7.8	<0.4	19	26	24	<0.1	11	81	<20	<50	100	<100	100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ15_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.1	18/11/2020	757712	2.3	<0.4	37	16	7.5	<0.1	46	58	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
RZ16_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02_0-0.1	17/11/2020	757742	12	<0.4	30	31	15	<0.1	25	68	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP07_0-0.1	17/11/2020	757742	11	<0.4	25	18	24	<0.1	14	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18_0-0.1	19/11/2020	758326	10	<0.4	28	21	25	<0.1	14	52	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25_0.5-0.6	17/11/2020	757742	11	<0.4	33	30	25	<0.1	21	46	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP26_0-0.1	17/11/2020	757742	13	<0.4	39	21	29	<0.1	16	33	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36_0-0.1	19/11/2020	758326	12	<0.4	21	32	25	<0.1	26	73	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Metals & Metalloids								TRHs (NEPC 2013)							BTEXN							
			Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			2	0.4	5	5	5	0.1	5	5	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil			3000	900	3600	240000	1500	730	6000	400000															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																									
0-1m																310	NL	4	NL	NL			NL	NL	NL
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind			160		680	340	1800		550	1400														370	370
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil													2500	6600		215	170	95	135	185			95			
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil											800	1000	5000	10000											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																									
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																							
TP39_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42_0-0.1	18/11/2020	757712	14	<0.4	19	19	28	<0.1	15	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP47_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP48_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP52_0-0.1	18/11/2020	757712	7.4	<0.4	16	22	22	<0.1	15	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP61_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP63_0-0.1	18/11/2020	757712	12	<0.4	17	19	23	<0.1	12	47	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP65_0-0.1	17/11/2020	757742	20	<0.4	21	33	28	<0.1	23	72	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP69_0.3-0.4	17/11/2020	757742	9.5	<0.4	22	28	18	<0.1	11	46	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP76_0.3-0.4	17/11/2020	757742	17	<0.4	28	32	18	<0.1	13	65	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP82_0-0.1	17/11/2020	757742	13	<0.4	33	15	24	<0.1	7.7	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP88_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP90_0-0.1	17/11/2020	757742	9.2	<0.4	22	22	13	<0.1	8.3	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA05	17/11/2020	256165	<4	<0.4	9	10	7	<0.1	3	13	-	-	-	-	-	-	-	-	-	-	-	-	<0.1	-	
QC05	17/11/2020	757742	13	<0.4	27	24	16	<0.1	8.9	29	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP92_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP98_0.5-0.6	17/11/2020	757742	15	<0.4	25	17	23	<0.1	14	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105_0.6-0.7	16/11/2020	757742	15	<0.4	29	35	230	0.2	24	220	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP105_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0.2-0.3	16/11/2020	757742	7.8	<0.4	16	14	86	<0.1	11	110	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP106_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106A_0.6-0.7	16/11/2020	757742	13	<0.4	26	24	150	0.1	22	170	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP106A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_0.2-0.3	16/11/2020	757742	3.8	<0.4	8.9	8	35	<0.1	<5	23	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP107_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_1.4-1.5	16/11/2020	757742	11	<0.4	24	25	12	<0.1	9.7	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108_0.6-0.7	16/11/2020	757742	7.8	<0.4	20	22	27	<0.1	13	42	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP108_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108A_0.2-0.3	16/11/2020	757742	26	<0.4	38	50	260	0.4	23	230	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP109_0.2-0.3	16/11/2020	757742	14	0.9	30	41	130	<0.1	26	120	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP109_0.6-0.7	16/11/2020	757742	14	<0.4	23	20	30	<0.1	9.8	36	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
QA04	16/11/2020	256165	6	<0.4	11	10	14	<0.1	5	16	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	<0.1	-
QC04	16/11/2020	757742	12	0.7	22	17	22	<0.1	8.4	36	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP109_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0.6-0.7	16/11/2020	757742	15	<0.4	35	37	68	<0.1	29	78	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP110_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_1.4-1.5	16/11/2020	757742	11	<0.4	27	36	19	<0.1	12	31	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP111_0.2-0.3	16/11/2020	757742	8.5	<0.4	27	20	29	<0.1	16	95	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP111_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.2-0.3	16/11/2020	757742	<2	<0.4	5.3	<5	12	<0.1	<5	8.4	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP112_0.6-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Metals & Metalloids								TRHs (NEPC 2013)							BTEXN							
			Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			2	0.4	5	5	5	0.1	5	5	20	50	100	100	100	20	50	0.1	0.1	0.1	0.1	0.2	0.3	0.1	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil			3000	900	3600	240000	1500	730	6000	400000															
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																									
0-1m																310	NL	4	NL	NL			NL	NL	NL
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind			160		680	340	1800		550	1400														370	370
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil													2500	6600		215	170	95	135	185			95			
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil											800	1000	5000	10000											
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																									
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																							
TP114_0.2-0.3	16/11/2020	757742	6.1	<0.4	15	22	18	<0.1	19	130	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP114_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0.2-0.3	16/11/2020	757742	4.3	<0.4	8	8.6	20	<0.1	<5	48	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
QA02	16/11/2020	256165	<4	<0.4	5	7	15	<0.1	2	36	<25	<50	<100	<100	<50	<25	<50	<0.2	<0.5	<1	<1	<2	<3	<0.1	-
QC02	16/11/2020	757742	22	<0.4	32	9	24	<0.1	<5	53	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP115_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0.5-0.6	16/11/2020	757742	3.6	<0.4	21	24	26	<0.1	32	49	<20	<50	240	<100	240	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP116_0.9-1.0	16/11/2020	757742	8.4	<0.4	24	22	21	<0.1	20	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0-0.1	16/11/2020	757742	18	<0.4	27	26	34	<0.1	14	53	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP120_0-0.1	16/11/2020	757742	15	<0.4	23	16	25	<0.1	11	37	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP121_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP122_0-0.1	16/11/2020	757742	10	<0.4	21	11	18	<0.1	6.3	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP124_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP126_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-1.0	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128A_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.2-0.3	18/11/2020	757712	6	<0.4	18	24	18	<0.1	19	58	<20	<2500	<5000	<5000	<5000	<20	<2500	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP130_0.7-0.8	18/11/2020	757712	10	<0.4	19	29	11	<0.1	10	48	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP131_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138_0-0.2	18/11/2020	757712	11	<0.4	22	38	52	<0.1	18	430	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138A_0-0.4	18/11/2020	757712	6.8	<0.4	53	27	18	<0.1	50	62	<20	<50	<100	<100	<100	<20	<50	<0.1	<0.1	<0.1	<0.1	<0.2	<0.3	-	<0.5
TP197_0-0.1	17/11/2020	757742	15	<0.4	26	22	27	<0.1	13	42	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			PAH																		
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								40													4000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																					
0-1m																		NL			
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																		370			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil							1.4														
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																					
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																			
SED01	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SED02	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SED03	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
SED04	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
DRUM1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ01_0-0.05	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ02_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ02_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0.3-0.4	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ03_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ03_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ04_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ05_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ06_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ07_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ08_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ09_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10_0-0.05	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ10A_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ10A_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ12_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ13_0-0.15	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ14_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ14A_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ15_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ15_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
RZ16_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP07_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP18_0-0.1	19/11/2020	758326	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP21_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25_0.5-0.6	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP26_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP27_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36_0-0.1	19/11/2020	758326	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			PAH																		
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								40													4000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																					
0-1m																		NL			
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																		370			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil							1.4														
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																					
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																			
TP39_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP42_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP47_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP48_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP52_0-0.1	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP61_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP63_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP65_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP69_0.3-0.4	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP76_0.3-0.4	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP82_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP88_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP90_0-0.1	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA05	17/11/2020	256165	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.05
QC05	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP92_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP98_0.5-0.6	17/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP105_0.6-0.7	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP105_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP106_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106A_0.6-0.7	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP106A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP107_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_1.4-1.5	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP108_0.6-0.7	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP108_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108A_0.2-0.3	16/11/2020	757742	<0.5	<0.5	0.6	0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	0.5	0.8	3.1
TP109_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP109_0.6-0.7	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA04	16/11/2020	256165	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.05
QC04	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP109_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0.6-0.7	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP110_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_1.4-1.5	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP111_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP111_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP112_0.6-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			PAH																		
			Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ calc (Half)	Benzo(b+j)fluoranthene	Benzo(b+j+k)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil								40													4000
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																					
0-1m																		NL			
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																		370			
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil							1.4														
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																					
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																					
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																			
TP114_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	0.8
TP114_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0.2-0.3	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA02	16/11/2020	256165	<0.1	<0.1	<0.1	<0.1	<0.05	<0.5	-	<0.2	<0.1	-	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.05
QC02	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP115_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0.5-0.6	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP116_0.9-1.0	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP116_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0-0.1	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP120_0-0.1	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP121_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP122_0-0.1	16/11/2020	757742	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP124_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP126_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-1.0	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128A_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.2-0.3	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP130_0.7-0.8	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP131_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138_0-0.2	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP138A_0-0.4	18/11/2020	757712	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	-	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
TP197_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organochlorine Pesticides																								
			4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										45	530					3600				100			50		2500	160
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																										
0-1m																										
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind														640												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																										
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																									
SED01	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
SED02	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
SED03	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED04	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRUM1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ01_0-0.05	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ02_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ02_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0.3-0.4	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10_0-0.05	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10A_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10A_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ12_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ13_0-0.15	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ14_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ14A_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ15_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ15_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP07_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11_0-0.1	19/11/2020	758326	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP18_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP36_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organochlorine Pesticides																							
			4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										45	530					3600				100			50		2500	160
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																										
0-1m																										
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind														640												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																										
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																								
TP39_0-0.1	19/11/2020	758326	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP42_0-0.1	18/11/2020	757712	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP47_0-0.1	19/11/2020	758326	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP48_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP52_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP61_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP63_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP65_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP69_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP76_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP82_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP88_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP90_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
QA05	17/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP92_0-0.1	17/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP98_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106A_0.6-0.7	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP106A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_0.2-0.3	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP107_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108A_0.2-0.3	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP109_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP109_0.6-0.7	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
QA04	16/11/2020	256165	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	<0.1	<0.1	<0.1	-
QC04	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP109_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.6-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organochlorine Pesticides																								
			4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	Aldrin + Dieldrin	Chlordane	Chlordane (cis)	Chlordane (trans)	DDT	DDD	DDT+DDE+DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EQL			0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.1	0.1	0.1	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.2	0.1
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										45	530					3600				100			50		2500	160
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																										
0-1m																										
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind														640												
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																										
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																										
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																										
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																								
TP114_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP114_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0.5-0.6	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP116_0.9-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0-0.1	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP120_0-0.1	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP121_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP122_0-0.1	16/11/2020	757742	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	-	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.2	<0.1
TP124_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP126_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-1.0	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128A_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.7-0.8	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP131_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138A_0-0.4	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP197_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organophosphorus Pesticides																																			
			Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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			0.2	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	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
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil						2000																																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																																						
0-1m																																						
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																						
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																						
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																						
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																																				
SED01	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED02	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED03	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SED04	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
DRUM1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ01_0-0.05	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ02_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ02_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0.3-0.4	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ03_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ04_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ05_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ06_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ07_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ08_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ09_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10_0-0.05	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10A_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ10A_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ12_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ13_0-0.15	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ14_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ14A_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ15_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ15_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
RZ16_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP02_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP07_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP11_0-0.1	19/11/2020	758326	<0.2	<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	<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
TP18_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP21_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP25_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP26_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP27_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP34_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP36_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organophosphorus Pesticides																																			
			Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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			0.2	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	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
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil						2000																																
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																																						
0-1m																																						
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																																						
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																						
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																						
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																						
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																																				
TP39_0-0.1	19/11/2020	758326	<0.2	<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	<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
TP42_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP47_0-0.1	19/11/2020	758326	<0.2	<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	<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
TP48_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP52_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP61_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP63_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP65_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP69_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP76_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP82_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP88_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP90_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA05	17/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP92_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP98_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP105A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106A_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP106A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP107_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP108A_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP109_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP109_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA04	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP109_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA03	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP110_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP111_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0.6-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP112_0-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Organophosphorus Pesticides																																					
			Azinophos methyl	Bolstar (Sulprofos)	Chlorfenvinphos	Chlorpyrifos	Chlorpyrifos-methyl	Coumaphos	Demeton-O	Demeton-S	Diazinon	Dichlorvos	Dimethoate	Disulfoton	EPN	Ethion	Ethoprop	Fenitrothion	Fensulfothion	Fenthion	Malathion	Merphos	Methyl parathion	Mevinphos (Phosdrin)	Monocrotophos	Naled (Dibrom)	Omethoate	Phorate	Pirimiphos-methyl	Pyrazophos	Ronnel	Terbufos	Tetrachlorvinphos	Tokuthion	Trichloronate	Parathion
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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			0.2	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	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	0.2	0.2
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil						2000																																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																																								
0-1m																																								
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																																								
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																																								
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																																								
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																																								
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																																							
TP114_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP114_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA02	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP115_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QA01	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0.9-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP116_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP118_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP120_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP121_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP122_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP124_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP126_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128_0-1.0	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP128A_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP130_0.7-0.8	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP131_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP135_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP138A_0-0.4	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TP197_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Polychlorinated Biphenyls									Ionic Balance					Asbestos										Other	
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Moisture	% Clay*	Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Asbestos Field Quantification	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Moisture Content (dried @ 103°C)	Coal Tar
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	%	g	g	g	% (w/w)	% (w/w)	g	g	g	g	% (w/w)	g	%	Comment
EQL			0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	10	0.1	0.1	1												1	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										7	80																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																													
0-1m																													
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																													
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																				0.05	0.05					0.001			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																											
SED01	17/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	48	-
SED02	17/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-
SED03	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-
SED04	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-
DRUM1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0
RZ01_0-0.05	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	791	0	0	0	0	0	0	0	0	0	0	13	-
RZ02_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-
RZ02_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	646	0	0	0	0.005	0	0	0	0	0	0	-	-
RZ03_0.3-0.4	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
RZ03_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	728	0	0	0	0	0	0	0	0	0	0	9.4	-
RZ03_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	637	0	0	0	0	0	0	0	0	0	0	-	-
RZ04_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.1	-
RZ04_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	510	0	0	0	0	0	0	0	0	0	0	-	-
RZ05_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
RZ05_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	579	0	0	0	0.015	0	0	0	0	0	0	-	-
RZ06_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.7	-
RZ06_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	512	0	0	0	0	0	0	0	0	0	0	-	-
RZ07_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
RZ07_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	610	0	0	0	0.046	0	0	0	0	0	0	-	-
RZ08_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
RZ08_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737	0	0	0	0.02	0	0	0	0	0	0	-	-
RZ09_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
RZ09_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	639	0	0	0	0.009	0	0	0	0	0	0	-	-
RZ10_0-0.05	18/11/2020	757712	-	-	-	-	-	-	-	-	-	23	37	6.3	-	23	492	0	0	0	>0.05	0	0	3.2881	0.3288	0.0668	0.3288	13	-
RZ10A_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-
RZ10A_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	935	0	0	0	0	0	0	0	0	0	0	-	-
RZ11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	699	0	0	0	0	0	0	0	0	0	0	-	-
RZ12_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	646	0	0	0	0	0	0	0	0	0	0	10	-
RZ13_0-0.15	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	469	0	0	0	0.01	0	0	0	0	0	0	20	-
RZ14_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	607	0	0	0	0	0	0	0	0	0	0	16	-
RZ14A_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	474	0	0	0	0	0	0	0.0023	0.0021	0.0004	0.0021	12	-
RZ15_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
RZ15_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	319	0	0	0	0	0	0	0	0	0	0	-	-
RZ16_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	846	0	0	0	0	0	0	0	0	0	0	5.6	-
RZ16_0-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	815	0	0	0	0	0	0	0	0	0	0	-	-
TP02_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP07_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP11_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	505	0	0	0	-	0	0	0	0	0	0	16	-
TP18_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
TP21_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	-	-	-	645	0	0	0	-	0	0	0	0	0	0	-	-
TP25_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	493	0	0	0	-	0	0	0	0	0	0	19	-
TP26_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	773	0	0	0	-	0	0	0	0	0	0	7.9	-
TP27_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	596	0	0	0	-	0	0	0	0	0	0	-	-
TP34_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
TP36_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	-	-	-	6.4	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Polychlorinated Biphenyls									Ionic Balance					Asbestos										Other	
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Moisture	% Clay*	Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Asbestos Field Quantification	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Moisture Content (dried @ 103°C)	Coal Tar
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	%	g	g	g	% (w/w)	% (w/w)	g	g	g	g	% (w/w)	g	%	Comment
EQL			0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	10	0.1	0.1	1												1	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										7	80																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																													
0-1m																													
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																													
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																				0.05	0.05					0.001			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																											
TP39_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	724	0	0	0	-	0	0	0	0	0	0	14	-
TP42_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP47_0-0.1	19/11/2020	758326	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	613	0	0	0	-	0	0	0	0	0	0	11	-
TP48_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	582	0	0	0	-	0	0	0	0	0	0	-	-
TP52_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	557	0	0	0	-	0	0	0	0	0	0	15	-
TP61_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-
TP63_0-0.1	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	658	0	0	0	-	0	0	0	0	0	0	16	-
TP65_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	560	0	0	0	-	0	0	0	0	0	0	15	-
TP69_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
TP76_0.3-0.4	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-
TP82_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	689	0	0	0	-	0	0	0	0	0	0	23	-
TP88_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP90_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	558	0	0	0	-	0	0	0	0	0	0	19	-
QA05	17/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	8.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC05	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	641	0	0	0	-	0	0	0	0	0	0	12	-
TP92_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP98_0.5-0.6	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-
TP105_0.6-0.7	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	-	12	-
TP105_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	771	0	0	0	0.022	0	0	0	0	0	0	-	-
TP105A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	762	0	0	0	0	0	0	0	0	0	0	-	-
TP106_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
TP106_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737	0	0	0	0.036	0	0	0	0	0	0	-	-
TP106A_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7.6	-
TP106A_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	736	0	0	0	0.038	0	0	0	0	0	0	-	-
TP107_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-
TP107_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	839	0	0	0	0	0	0	0	0	0	0	-	-
TP107_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP108_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-
TP108_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	737	0	0	0	0.013	0	0	0	0	0	0	-	-
TP108A_0.2-0.3	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	30	170	8.5	-	8	-	-	-	-	-	-	-	-	-	-	-	8.4	-
TP109_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-
TP109_0.6-0.7	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
QA04	16/11/2020	256165	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	-	-	-	19	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC04	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP109_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	709	0	0	0	0.013	0	0	0	0	0	0	-	-
QA03	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC03	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	681	0	0	0	0	0	0	0	0	0	0	-	-
TP110_0.6-0.7	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-
TP110_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	663	0	0	0	0	0	0	0	0	0	0	-	-
TP110_1.4-1.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-
TP111_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-
TP111_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	839	0	0	0	0	0	0	0	0	0	0	-	-
TP112_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8.3	-
TP112_0.6-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	749	0	0	0	0	0	0	0	0	0	0	-	-
TP112_0-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	699	0	0	0	0	0	0	0	0	0	0	-	-

Table A: Soil Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

			Polychlorinated Biphenyls									Ionic Balance					Asbestos										Other	
			Arochlor 1016	Arochlor 1221	Arochlor 1232	Arochlor 1242	Arochlor 1248	Arochlor 1254	Arochlor 1260	PCBs (Sum of total)	Hexachlorobenzene	CEC	Conductivity (1:5 aqueous extract)	pH (aqueous extract)	Moisture	% Clay*	Approximate Sample Mass	Mass ACM	Mass Asbestos in ACM	Asbestos from ACM in Soil	Asbestos Field Quantification	Mass FA	Mass Asbestos in FA	Mass AF	Mass asbestos in AF	Asbestos from FA & AF in Soil	Mass Asbestos in FA & AF	Moisture Content (dried @ 103°C)	Coal Tar
			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	MEQ/100G	US/CM	pH Units	%	%	g	g	g	% (w/w)	% (w/w)	g	g	g	g	% (w/w)	g	%	Comment
EQL			0.5	0.1	0.5	0.5	0.5	0.5	0.5	0.5	0.05	0.05	10	0.1	0.1	1												1	
NEPM 2013 Table 1A(1) HILs Comm/Ind D Soil										7	80																		
NEPM 2013 Table 1A(3) Comm/Ind D Soil HSL for Vapour Intrusion, Clay																													
0-1m																													
NEPM 2013 Table 1B(1-5) Specific EIL - Comm/Ind																													
NEPM 2013 Table 1B(6) ESLs for Comm/Ind, Fine Soil																													
NEPM 2013 Table 1B(7) Management Limits Comm / Ind, Fine Soil																													
NEPM 2013 Table 7 Comm/Ind D Soil HSL for Asbestos in Soil																				0.05	0.05					0.001			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**																											
TP114_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
TP114_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	653	0	0	0	0	0	0	0	0	0	0	-	-
TP115_0.2-0.3	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9.8	-
QA02	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC02	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
TP115_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	756	0	0	0	0	0	0	0	0	0	0	-	-
QA01	16/11/2020	256165	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
QC01	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	754	0	0	0	0	0	0	0	0	0	0	-	-
TP116_0.5-0.6	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.1	-
TP116_0.9-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-
TP116_0-1.0	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	714	0	0	0	0	0	0	0	0	0	0	-	-
TP118_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	778	0	0	0	-	0	0	0	0	0	0	-	-
TP118_0-0.1	16/11/2020	757742	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.05	-	-	-	-	-	743	0	0	0	-	0	0	0	0	0	0	17	-
TP120_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	765	0	0	0	-	0	0	0	0	0	0	20	-
TP121_0.5-0.6	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	765	0	0	0	-	0	0	0	0	0	0	-	-
TP122_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-
TP124_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	783	0	0	0	-	0	0	0	0	0	0	-	-
TP126_0.4-0.5	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	830	0	0	0	-	0	0	0	0	0	0	-	-
TP128_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	775	0	0	0	-	0	0	0	0	0	0	-	-
TP128_0-1.0	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	661	0	0	0	0.01	0	0	0	0	0	0	-	-
TP128A_0-0.1	16/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	648	0	0	0	-	0	0	0	0	0	0	-	-
TP130_0.2-0.3	18/11/2020	757712	<1	<1	<1	<1	<1	<1	<1	<1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-
TP130_0.7-0.8	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-
TP131_0-0.1	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	793	0	0	0	-	0	0	0	0	0	0	-	-
TP135_0.2-0.3	18/11/2020	757712	-	-	-	-	-	-	-	-	-	26	330	7.2	-	20	-	-	-	-	-	-	-	-	-	-	-	14	-
TP138_0-0.2	18/11/2020	757712	-	-	-	-	-	-	-	-	-	-	-	-	-	-	64	0	0	0	-	0	0	0	0	0	0	3.4	-
TP138A_0-0.4	18/11/2020	757712	<0.5	<0.1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	-	-	-	-	-	-	46	0	0	0	-	0	0	0	0	0	0	12	-
TP197_0-0.1	17/11/2020	757742	-	-	-	-	-	-	-	-	-	-	-	-	-	-	656	0	0	0	-	0	0	0	0	0	0	19	-

TABLE B - Results of PFAS in Soil

Project Number: 70548 Project Name: Mamre Road Kemps Creek

						PFAS																		
						Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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						0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses										10																	
PFAS NEMP 3.0 (2025) HIL D - Commercial/Industrial										50																	20
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)										0.005																	
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses										0.003																	
Location Code	**Field ID**	**Matrix Type**	**Date**	**Lab Report**																							
TP02	TP02-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP03	TP03-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP03	TP03-0-0.1	Soil	25 Aug 2025	1262660		0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP04	TP04-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP05	TP05-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP06	TP06-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP06	TP06-0-0.1	Soil	25 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP07	TP07-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP08	TP08-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP09	TP09-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP09	TP09-0-0.1	Soil	26 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP11	TP11-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP12	TP12-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP13	TP13-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP13	TP13-0-0.1	Soil	25 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP14	TP14-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP14	TP14-0-0.1	Soil	25 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP15	TP15-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP16	TP16-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP17	TP17-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP18	TP18-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP20	QA20250825_P03	Soil	25 Aug 2025	ES2526333		<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
TP20	QC20250825_P03	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP20	TP20-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP20	TP20-0-0.1	Soil	25 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP21	QA20250825_P05	Soil	25 Aug 2025	ES2526333		<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
TP21	QC20250825_P05	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP21	TP21-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP22	TP22-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP23	TP23-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP24	TP24-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP25	TP25-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP25	TP25-0-0.1	Soil	26 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP26	TP26-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP26	TP26-0-0.1	Soil	26 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP27	TP27-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP28	QA20250825_P02	Soil	25 Aug 2025	ES2526333		<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
TP28	QC20250825_P02	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP28	TP28-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP29	QA20250825_P04	Soil	25 Aug 2025	ES2526333		<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
TP29	QC20250825_P04	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP29	TP29-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP30	TP30-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP30	TP30-0-0.1	Soil	25 Aug 2025	1262660		0.0007	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001

TABLE B - Results of PFAS in Soil

Project Number: 70548 Project Name: Mamre Road Kemps Creek

						PFAS																		
						Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)
						mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	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						0.0005	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0001	0.0002	0.0005	0.0005	0.0005	0.0005	0.0002	0.0002	0.0001	0.0001	0.0001	0.0001
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses										10																
PFAS NEMP 3.0 (2025) HIL D - Commercial/Industrial										50																20
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)										0.005																
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses										0.003																
Location Code	**Field ID**	**Matrix Type**	**Date**	**Lab Report**																						
TP31	QA20250825_P01	Soil	25 Aug 2025	ES2526333		<0.001	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0005	<0.0002	<0.0002	<0.0002
TP31	QC20250825_P01	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP31	TP31-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP32	TP32-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP33	TP33-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP33	TP33-0-0.1	Soil	25 Aug 2025	1262660		0.0018	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	<0.0001
TP34	TP34-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP35	TP35-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP36	TP36-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005
TP36	TP36-0-0.1	Soil	26 Aug 2025	1262660		<0.0005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0001	<0.0001	<0.0001	0.0003
TP233	TP233-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP234	TP234-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP235	TP235-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP236	TP236-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP237	TP237-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP238	TP238-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP239	TP239-0-0.1	Soil	26 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005
TP240	TP240-0-0.1	Soil	25 Aug 2025	1260403		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.005	<0.005	<0.005	<0.005

TABLE B - Results of PFAS in Soil

Project Number: 70548 Project Name: Mamre Road Kemps Creek

													Other
	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	Moisture Content (dried @ 103°C)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/KG	mg/kg	mg/kg	%
EQL	0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	1
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses		1										
PFAS NEMP 3.0 (2025) HIL D - Commercial/Industrial		20						20				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses		0.003										
Location Code	**Field ID**	**Matrix Type**	**Date**	**Lab Report**									
TP02	TP02-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	24
TP03	TP03-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	24
TP03	TP03-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	0.0003	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	0.0003	0.0008	0.0008	<0.0001	24
TP04	TP04-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	28
TP05	TP05-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25
TP06	TP06-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	24
TP06	TP06-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001	23
TP07	TP07-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	20
TP08	TP08-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP09	TP09-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	18
TP09	TP09-0-0.1	Soil	26 Aug 2025	1262660	<0.0001	0.0002	<0.0001	<0.0001	0.0016	<0.0001	<0.0001	0.0002	0.0018	0.0018	<0.0001	17
TP11	TP11-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	30
TP12	TP12-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	26
TP13	TP13-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	32
TP13	TP13-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	0.0003	<0.0001	<0.0001	0.0082	<0.0001	<0.0001	0.0003	0.0085	0.0085	<0.0001	32
TP14	TP14-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25
TP14	TP14-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	0.0002	<0.0001	<0.0001	0.0019	<0.0001	<0.0001	0.0002	0.0021	0.0021	<0.0001	25
TP15	TP15-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	34
TP16	TP16-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP17	TP17-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	26
TP18	TP18-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	26
TP20	QA20250825_P03	Soil	25 Aug 2025	ES2526333	<0.0002	0.0003	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0003	0.0003	0.0003	<0.0002	43.9
TP20	QC20250825_P03	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	20
TP20	TP20-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	16
TP20	TP20-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	<0.0001	<0.0001	<0.0001	0.0006	<0.0001	<0.0001	<0.0001	0.0006	0.0006	<0.0001	18
TP21	QA20250825_P05	Soil	25 Aug 2025	ES2526333	<0.0002	0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0002	0.0002	0.0002	<0.0002	38.6
TP21	QC20250825_P05	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	26
TP21	TP21-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25
TP22	TP22-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP23	TP23-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	36
TP24	TP24-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP25	TP25-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	30
TP25	TP25-0-0.1	Soil	26 Aug 2025	1262660	<0.0001	0.0002	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	0.0002	<0.0005	<0.0005	<0.0001	28
TP26	TP26-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	22
TP26	TP26-0-0.1	Soil	26 Aug 2025	1262660	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	<0.0005	<0.0005	<0.0001	22
TP27	TP27-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	23
TP28	QA20250825_P02	Soil	25 Aug 2025	ES2526333	<0.0002	0.0005	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0005	0.0005	0.0005	<0.0002	29.4
TP28	QC20250825_P02	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	30
TP28	TP28-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	31
TP29	QA20250825_P04	Soil	25 Aug 2025	ES2526333	<0.0002	<0.0002	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	<0.0002	<0.0002	<0.0002	<0.0002	24.7
TP29	QC20250825_P04	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	22
TP29	TP29-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25
TP30	TP30-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP30	TP30-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	0.0002	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	0.0002	0.0009	0.0009	<0.0001	21

TABLE B - Results of PFAS in Soil

Project Number: 70548 Project Name: Mamre Road Kemps Creek

													Other
	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion	Moisture Content (dried @ 103°C)
	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/KG	mg/kg	mg/kg	%
EQL	0.0001	0.0001	0.0001	0.0001	0.0005	0.0001	0.0001	0.0001	0.0002	0.0002	0.0001	1
PFAS NEMP 3.0 (2025) Ecological Direct Exposure - all land uses		1										
PFAS NEMP 3.0 (2025) HIL D - Commercial/Industrial		20						20				
PFAS NEMP 3.0 (2025) Interim Ecological Direct Exposure (Reptiles)												
PFAS NEMP 3.0 (2025) Interim Ecological Indirect Exposure - all land uses		0.003										
Location Code	**Field ID**	**Matrix Type**	**Date**	**Lab Report**											
TP31	QA20250825_P01	Soil	25 Aug 2025	ES2526333	<0.0002	0.0014	<0.0002	<0.0005	<0.0005	<0.0005	<0.0005	0.0014	0.0014	0.0014	<0.0002	24.7
TP31	QC20250825_P01	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	30
TP31	TP31-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	24
TP32	TP32-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	29
TP33	TP33-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	27
TP33	TP33-0-0.1	Soil	25 Aug 2025	1262660	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.0001	<0.0001	<0.0001	0.0018	0.0018	<0.0001	27
TP34	TP34-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	22
TP35	TP35-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25
TP36	TP36-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	23
TP36	TP36-0-0.1	Soil	26 Aug 2025	1262660	<0.0001	0.0011	<0.0001	<0.0001	0.0017	<0.0001	<0.0001	0.0014	0.0031	0.0031	<0.0001	22
TP233	TP233-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP234	TP234-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	17
TP235	TP235-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	20
TP236	TP236-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	23
TP237	TP237-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	29
TP238	TP238-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	21
TP239	TP239-0-0.1	Soil	26 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	15
TP240	TP240-0-0.1	Soil	25 Aug 2025	1260403	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.01	<0.05	<0.005	25

Table C: Soil Leachate Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

					Metals & Metalloids										PAH																		Ionic Balance				Inorganics
					Arsenic	Cadmium	Chromium (III+VI)	Copper TCLP	Copper ASLP	Lead TCLP	Lead ASLP	Mercury TCLP	Mercury ASLP	Nickel TCLP	Nickel ASLP	Zinc TCLP	Zinc ASLP	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	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	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)	pH of Leaching Fluid	pH (after HCL)	pH (Final)	pH (Initial)	Leachate Fluid
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	PH UNITS	pH Units	pH Units	pH Units	Comment
EQL					0.005	0.0005	0.01	0.01	0.01	0.01	0.01	0.0001	0.0001	0.01	0.01	0.01	0.01	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.1	0.1	0.1	0.1	
NSW 2014 General Solid Waste TCLP1					5	1	5		*	5	*	0.2	*	2	*		*					0.04																	
ANZG (2018) 95% Species Protection (Freshwater)									0.0014		0.0034		0.0006		0.011		0.008																							
Location_Code	**Field_ID**	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																																			
RZ05	RZ05 0-0.1	18/11/2020	758578	SOIL	<0.005	<0.0005	<0.05 - 0.06	<0.05	0.03	<0.01	0.03	<0.0001	<0.0001	0.02	0.04	0.47	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	1.6	5.2 - 6.7	6.9 - 7.4	4
TP105	TP105 0.6-0.7	16/11/2020	758576	SOIL	<0.01 - 0.012	<0.0005	<0.05 - 0.05	<0.05	0.03	0.01	0.07	<0.0001	<0.0001	<0.01	0.01	0.14	0.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	1.6	5.2 - 8.3	7.4 - 7.6	4
TP108A	TP108A 0.2-0.3	16/11/2020	758576	SOIL	<0.01 - 0.031	<0.0005	<0.05 - 0.06	<0.05	0.04	0.02	0.27	<0.001	0.0002	<0.01	0.02	0.32	0.39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.9	1.6	5.2 - 8.2	7.4 - 7.8	4
TP111	TP111_0.2-0.3	16/11/2020	757742	soil	<0.01 - 0.019	<0.0005	<0.05 - 0.06	<0.05	0.04	<0.01	0.04	<0.0001	<0.0001	<0.01	0.02	0.13	0.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.8	1.6	5.1 - 6.8	7.2	4
TP130	TP130_0.2-0.3	18/11/2020	757712	soil	<0.01	<0.005	<0.05	<0.05	<0.05	<0.01	<0.01	<0.001	<0.001	0.01	0.01	0.11	0.11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	-	1.5	5.1	7.2	-
Statistical Summary																																							
Number of Results					5	5	5	5	5	5	5	5	5	5	5	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	4	5	5	5	4
Number of Detects					3	0	4	0	4	2	4	0	1	2	5	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	5	5	4
Minimum Concentration					<0.005	<0.0005	<0.05	<0.05	0.03	<0.01	<0.01	<0.0001	<0.0001	<0.01	0.01	0.11	0.11	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.8	1.5	5.1	6.9	4
Minimum Detect					ND	ND	ND	ND	0.03	0.01	0.03	ND	0.0002	0.01	0.01	0.11	0.11	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.8	1.5	5.1	6.9	4
Maximum Concentration					0.031	<0.005	0.06	<0.05	<0.05	0.02	0.27	<0.001	<0.001	0.02	0.04	0.47	3.2	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	5.9	1.6	8.3	7.8	4
Maximum Detect					0.031	ND	0.06	ND	0.04	0.02	0.27	ND	0.0002	0.02	0.04	0.47	3.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5.9	1.6	8.3	7.8	4
Average Concentration					0.0092	0.0007	0.038	0.025	0.033	0.009	0.083	0.00023	0.00017	0.009	0.02	0.23	0.82																				5.9	1.6	6.1	7.3	4
Median Concentration					0.0085	0.00025	0.0425	0.025	0.03	0.005	0.04	0.00005	0.00005	0.005	0.02	0.14	0.2	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	5.9	1.6	5.95	7.2	4
Standard Deviation					0.0061	0.001	0.0076	0	0.0067	0.0065	0.11	0.00025	0.0002	0.0065	0.012	0.16	1.3																			0.05	0.045	0.68	0.2	0
Number of Guideline Exceedances					0	0	0	0	5	0	5	0	1	0	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)					0	0	0	0	4	0	4	0	0	0	3	0	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Comments
* No EPA (2014) Criteria for ASLP
Grey Shaded = LOR above adopted crierion

Table D: Surface Water Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

				Metals & Metalloids								TPHs (NEPC 1999)					TRHs (NEPC 2013)							BTEXN							
				Arsenic	Cadmium	Chromium (III+VI)	Copper	Lead	Mercury	Nickel	Zinc	C6-C9 Fraction	C10-C14 Fraction	C15-C28 Fraction	C29-C36 Fraction	C10-C36 Fraction (Sum of Total)	C6-C10	C10-C16	C16-C34	C34-C40	C10-C40 (Sum of total)	F1 (C6-C10 minus BTEX)	F2 (C10-C16 less Naphthalene)	Benzene	Toluene	Ethylbenzene	Xylene (o)	Xylene (m & p)	Xylene Total	Naphthalene	Naphthalene - MAH
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001	0.0002	0.001	0.001	0.001	0.0001	0.001	0.005	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.1	0.1	0.1	0.02	0.05	0.001	0.001	0.001	0.001	0.002	0.003	0.0002	0.01
ADWG 2018 Health x10				0.1	0.02		20	0.1	0.01	0.2						0.9					0.9		0.9	0.01	8	3			6		
ANZG (2018) Freshwater 95% toxicant DGVs				0.013	0.0002	0.001	0.0014	0.0034	0.0006	0.011	0.008													0.95			0.35			0.016	0.016
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																															
2-4m																						NL	NL	30	NL	NL			NL	NL	NL
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																												
SW01	16/11/2020	757581	WATER	0.002	0.0003	0.002	0.15	0.006	<0.0001	0.017	0.13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW02	16/11/2020	757581	WATER	<0.001	0.0003	<0.001	0.13	0.003	<0.0001	0.016	0.11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW03	16/11/2020	757581	WATER	<0.001	<0.0002	<0.001	0.006	<0.001	<0.0001	<0.001	<0.005	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQA01	16/11/2020	757581	WATER	<0.001	<0.0002	<0.001	0.032	<0.001	<0.0001	0.003	0.012	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQC01	16/11/2020	256050	WATER	<0.001	<0.0001	<0.001	0.003	<0.001	<0.00005	<0.001	0.002	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.0002	-
SW04	16/11/2020	757581	WATER	0.001	<0.0002	0.001	0.008	0.008	<0.0001	0.002	0.035	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW05	16/11/2020	757581	WATER	<0.001	<0.0002	<0.001	0.011	<0.001	<0.0001	0.002	0.009	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	-	<0.01
Statistical Summary																															
Number of Results				7	7	7	7	7	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				2	2	2	7	3	0	5	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.001	<0.0001	<0.001	0.003	<0.001	<0.00005	<0.001	0.002	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.0002	<0.01
Minimum Detect				0.001	0.0003	0.001	0.003	0.003	ND	0.002	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				0.002	0.0003	0.002	0.15	0.008	<0.0001	0.017	0.13	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.1	<0.1	<0.1	<0.02	<0.05	<0.001	<0.001	<0.001	<0.001	<0.002	<0.003	<0.0002	<0.01
Maximum Detect				0.002	0.0003	0.002	0.15	0.008	ND	0.017	0.13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration				0.00079	0.00015	0.00079	0.049	0.0027	0.000046	0.0059	0.043																				
Median Concentration				0.0005	0.0001	0.0005	0.011	0.0005	0.00005	0.002	0.012	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.05	0.05	0.05	0.01	0.025	0.0005	0.0005	0.0005	0.0005	0.001	0.0015	0.0001	0.005
Standard Deviation				0.00057	0.0001	0.00057	0.063	0.0031	9.4E-06	0.0073	0.054																				
Number of Guideline Exceedances				0	2	2	7	2	6	2	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	2	2	7	2	0	2	5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0

Table D: Surface Water Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

				PAH																				
				2-Methylnaphthalene	3-Methylcholanthrene	7,12-Dimethylbenz(a)anthracene	Acenaphthene	Acenaphthylene	Anthracene	Benz(a)anthracene	Benzo(a) pyrene	Benzo(a)pyrene TEQ	Benzo(b+j)fluoranthene	Benzo(b+j+k)Fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-c,d)pyrene	Naphthalene - PAH	Phenanthrene	Pyrene	PAHs (Sum of total)
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.005	0.005	0.005	0.00001	0.00001	0.00001	0.00001	0.00001	0.0005	0.00001	0.0002	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001	0.00001
ADWG 2018 Health x10											0.0001													
ANZG (2018) Freshwater 95% toxicant DGVs																					0.016			
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																								
2-4m																					NL			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																					
SW01	16/11/2020	757581	WATER	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
SW02	16/11/2020	757581	WATER	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
SW03	16/11/2020	757581	WATER	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
WQA01	16/11/2020	757581	WATER	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
WQC01	16/11/2020	256050	WATER	-	-	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	-	<0.0002	<0.0001	-	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	-	<0.0001	<0.0001	<0.0001
SW04	16/11/2020	757581	WATER	-	-	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
SW05	16/11/2020	757581	WATER	<0.005	<0.005	<0.005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	-	<0.00001	-	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Statistical Summary																								
Number of Results				1	1	1	7	7	7	7	7	1	6	1	7	6	7	7	7	7	7	6	7	7	7
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.005	<0.005	<0.005	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.0005	<0.00001	<0.0002	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001	<0.00001
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.005	<0.005	<0.005	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0005	<0.00001	<0.0002	<0.0001	<0.00001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.00001	<0.0001	<0.0001	<0.0001
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration							0.000011	0.000011	0.000011	0.000011	0.000011		0.000005		0.000011	0.000005	0.000011	0.000011	0.000011	0.000011	0.000011	0.000005	0.000011	0.000011	0.000011
Median Concentration				0.0025	0.0025	0.0025	0.000005	0.000005	0.000005	0.000005	0.000005	0.00025	0.000005	0.0001	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005	0.000005
Standard Deviation							0.000017	0.000017	0.000017	0.000017	0.000017		0		0.000017	0	0.000017	0.000017	0.000017	0.000017	0.000017	0	0.000017	0.000017	0.000017
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D: Surface Water Analytical Results
Project Number: 70548
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				Organochlorine Pesticides																		Chlorinated Alkanes													
				Pentachlorophenol	4,4-DDE	a-BHC	b-BHC	d-BHC	g-BHC (Lindane)	Aldrin	Dieldrin	DDT	DDD	Endosulfan I	Endosulfan II	Endosulfan sulphate	Endrin	Endrin aldehyde	Endrin ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	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-dichloroethane	1,2-dichloropropane	1,3-dichloropropane	Bromochloromethane	Carbon tetrachloride	Chloroethane	Chloromethane
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.01	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
ADWG 2018 Health x10				0.1					0.1			0.09								0.003								0.03					0.03		
ANZG (2018) Freshwater 95% toxicant DGVs				0.01					0.0002			0.00001					0.00002			0.00009					6.5									
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																																			
2-4m																																			
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																																
SW01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW02	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW03	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQA01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQC01	16/11/2020	256050	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW04	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW05	16/11/2020	757581	WATER	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Statistical Summary																																			
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																			
Median Concentration				0.005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Standard Deviation																																			
Number of Guideline Exceedances				1	0	0	0	0	1	0	0	1	0	0	0	0	1	0	0	1	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0

Table D: Surface Water Analytical Results
Project Number: 70548
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					Chlorinated Alkenes										Semivolatile Organic Compounds																				
					Dichlorodifluoromethane	Dichloromethane	Hexachloroethane	Trichlorofluoromethane	1,1-dichloroethene	3-chloropropene	4-chlorotoluene	cis-1,2-dichloroethene	cis-1,3-dichloropropene	Tetrachloroethene	trans-1,2-dichloroethene	trans-1,3-dichloropropene	Trichloroethene	Vinyl Chloride	1-Chloronaphthalene	2-Chloronaphthalene	Bis(2-chloroethoxy) methane	Dibenz[a,j]acridine	Acetophenone	Bis(2-chloroisopropyl) ether	4-Bromophenyl phenyl ether	4-Chlorophenyl phenyl ether	2,6-dinitrotoluene	2-Picoline	4-Aminobiphenyl	N-Nitrosopiperidine	N-nitrosodi-n-butylamine	N-nitrosodi-n-propylamine	1-Naphthylamine	2-Naphthylamine	3,3-Dichlorobenzidine	4-(dimethylamino) azobenzene
					mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL					0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
ADWG 2018 Health x10						0.04			0.3					0.5			0.2	0.003																	
ANZG (2018) Freshwater 95% toxicant DGVs							0.36																											
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																																		
2-4m																																		
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																																
SW01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW02	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW03	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQA01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQC01	16/11/2020	256050	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW04	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW05	16/11/2020	757581	WATER	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Statistical Summary																																		
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																			
Median Concentration				0.0005	0.0005	0.0025	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Standard Deviation																																			
Number of Guideline Exceedances				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D: Surface Water Analytical Results
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Project Name: Kemps Creek DSI

				Solvents		Phenols														MAH						Miscellaneous Hydrocarbons						
				Acetone	Benzyl chloride	2,3,4,6-tetrachlorophenol	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	4,6-Dinitro-2-methylphenol	4-Chloro-3-Methylphenol	4-nitrophenol	Phenol	1,2,4-trimethylbenzene	1,3,5-trimethylbenzene	Styrene	Total MAH	Bromobenzene	Isopropylbenzene	1,2-dibromoethane	Bromomethane	Dibromomethane	Iodomethane	4-Methyl-2-pentanone	Methyl Ethyl Ketone	1,2,3,4-tetrachlorobenzene
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
EQL				0.001	0.005	0.01	0.01	0.01	0.003	0.003	0.03	0.003	0.003	0.003	0.01	0.03	0.01	0.03	0.003	0.001	0.001	0.001	0.003	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005
ADWG 2018 Health x10				140				0.2	2				3									0.3				0.01	0.01					
ANZG (2018) Freshwater 95% toxicant DGVs						0.02		0.02	0.16		0.045		0.49						0.32													
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																																
2-4m																																
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																													
SW01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW02	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW03	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQA01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WQC01	16/11/2020	256050	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW04	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
SW05	16/11/2020	757581	WATER	<0.005	<0.005	<0.001	<0.005	<0.01	<0.01	<0.01	<0.01	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.01	<0.03	<0.01	<0.03	<0.003	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Statistical Summary																																
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Minimum Concentration				<0.001	<0.005	<0.001	<0.005	<0.01	<0.01	<0.01	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.003	<0.01	<0.03	<0.01	<0.03	<0.003	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Maximum Concentration				<0.001	<0.005	<0.001	<0.005	<0.01	<0.01	<0.01	<0.003	<0.003	<0.03	<0.003	<0.003	<0.003	<0.003	<0.01	<0.03	<0.01	<0.03	<0.003	<0.001	<0.001	<0.001	<0.003	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Average Concentration																																
Median Concentration				0.0005	0.0025	0.005	0.005	0.005	0.0015	0.0015	0.015	0.0015	0.0015	0.0015	0.005	0.015	0.005	0.015	0.0015	0.0005	0.0005	0.0005	0.0015	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0025
Standard Deviation																																
Number of Guideline Exceedances				0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Table D: Surface Water Analytical Results
Project Number: 70548
Project Name: Kemps Creek DSI

				Chlorinated Benzenes											Trihalomethanes						Phthalates					Nitrobenzenes			Anilines			Non-Metallic Inorganics					Other
				1,2,3,5-tetrachlorobenzene	1,2,3-trichlorobenzene	1,2,4,5-tetrachlorobenzene	1,2,4-trichlorobenzene	1,2-Dichlorobenzene	1,3,5-trichlorobenzene	1,3-dichlorobenzene	1,4-dichlorobenzene	Chlorobenzene	Hexachlorobenzene	Pentachlorobenzene	Dibromochloromethane	Chloroform	Tribromomethane	Bromodichloromethane	Pronamide	Trifluralin	Bis(2-ethylhexyl) phthalate	Diethylphthalate	Dimethyl phthalate	Di-n-butyl phthalate	Di-n-octyl phthalate	Nitrobenzene	Pentachloronitrobenzene	2,4-dinitrotoluene	2-Nitroaniline	Aniline	Hexachlorocyclopentadiene	Hexachlorobutadiene	Carbon disulfide	Ammonia as N	Nitrate (as N)	Nitrite (as N)	pH (Lab)	Nitrite + Nitrate as N	TSS
				mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	MG/L	mg/L	pH Units	mg/L	mg/L
EQL				0.005	0.005	0.005	0.005	0.001	0.005	0.001	0.001	0.001	0.005	0.005	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.05	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.01	0.02	0.02	0.1	0.05	5
ADWG 2018 Health x10								15			0.4	3							0.7	0.9	0.1					0.3					0.007			112.9	9.1			
ANZG (2018) Freshwater 95% toxicant DGVs					0.01		0.17	0.16		0.26	0.06									0.0044		1	3.7	0.026		0.55		0.065		0.25				0.9					
NEPM 2013 Table 1A(4) Comm/Ind HSL D GW for Vapour Intrusion, Clay																																						
2-4m																																						
Field_ID	**Sampled_Date_Time**	**Lab_Report_Number**	**Matrix_Type**																																			
SW01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.65	0.34	<0.02	7.5	0.35	35
SW02	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.03	<0.02	<0.02	7.1	<0.05	11
SW03	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	<0.02	<0.02	9	<0.05	7.4
WQA01	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.02	<0.02	<0.02	9	<0.05	8.4
WQC01	16/11/2020	256050	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<0.005	<0.005	<0.005	9.2	-	12
SW04	16/11/2020	757581	WATER	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.05	<0.02	<0.02	7.8	<0.05	<5
SW05	16/11/2020	757581	WATER	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.06	0.03	<0.02	7.9	<0.05	6.6
Statistical Summary																																						
Number of Results				1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	7	7	7	7	6	7
Number of Detects				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	2	0	7	1	6
Minimum Concentration				<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.005	7.1	<0.05	<5
Minimum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.02	0.03	ND	7.1	0.35	6.6
Maximum Concentration				<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	0.65	0.34	<0.02	9.2	0.35	35
Maximum Detect				ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.65	0.34	ND	9.2	0.35	35
Average Concentration																																	0.12	0.059	0.0089	8.2	0.079	12
Median Concentration				0.0025	0.0025	0.0025	0.0025	0.0005	0.0025	0.0005	0.0005	0.0005	0.0025	0.0025	0.0005	0.0025	0.0005	0.0005	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0005	0.03	0.01	0.01	7.9	0.025	8.4
Standard Deviation																																	0.23	0.12	0.0028	0.84	0.13	11
Number of Guideline Exceedances				0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0
Number of Guideline Exceedances(Detects Only)				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	0	0

TABLE E - Results of Analysis, PFAS in Surface Water
Project Number: 70548 Project Name: Mamre Road Kemps Creek

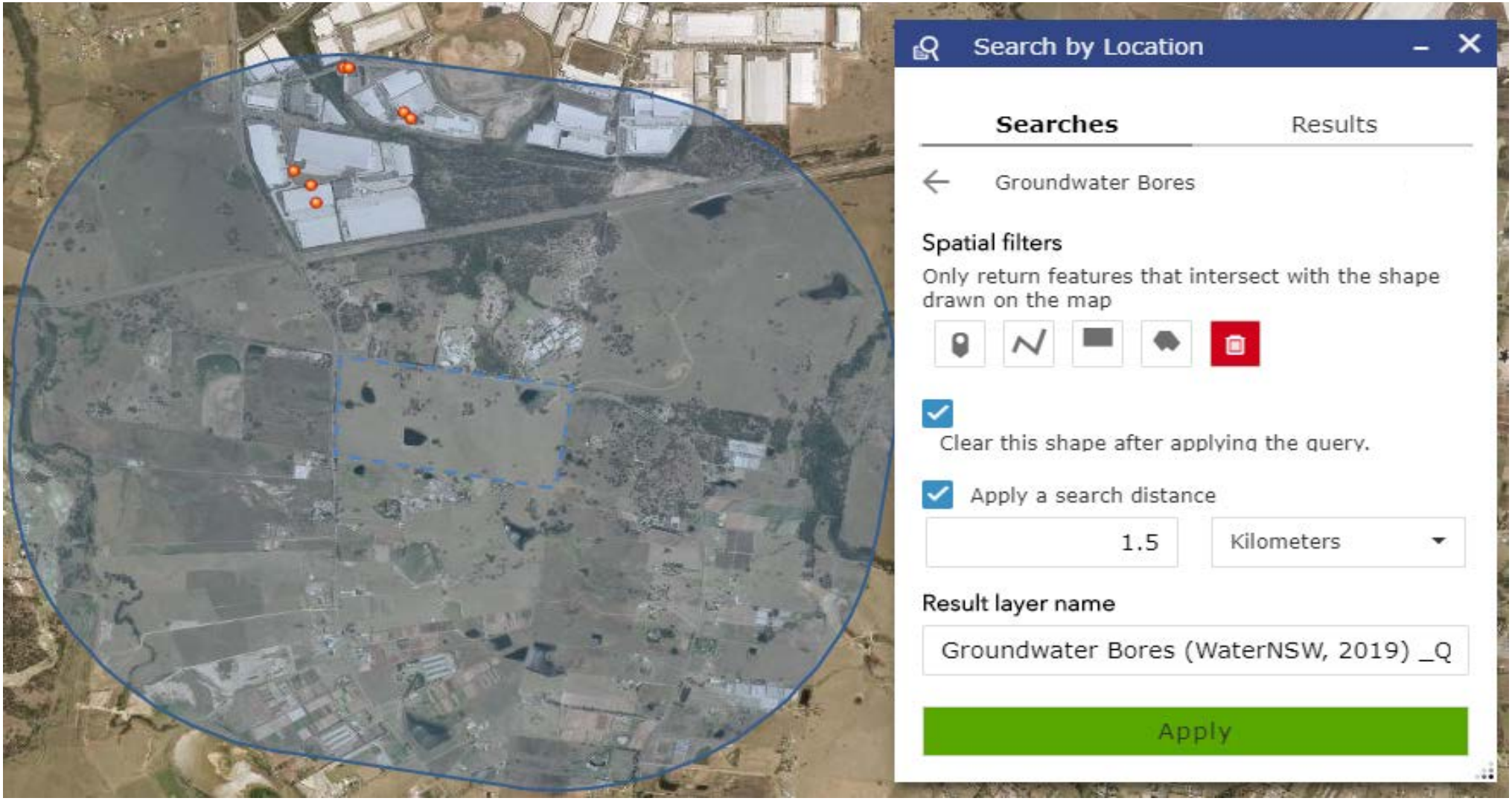
					PFAS																							
					Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	Perfluorohexadecanoic acid (PFHxDA)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (NMeFOSA)	N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	Perfluoropropanesulfonic acid (PFPrS)	Perfluorobutanesulfonic acid (PFBS)	Perfluoropentanesulfonic acid (PFPeS)	Perfluorohexanesulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctanesulfonic acid (PFOS)	Perfluorodecanesulfonic acid (PFDS)
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
EQL					0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.02	0.05	0.05	0.05	0.05	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 (2025) Freshwater 95% species protection									220																			0.13	
PFAS NEMP 3.0 (2025) Freshwater 99% species protection									19																			0.00023	
PFAS NEMP 3.0 (2025) Recreational Water									10																	2		2	
Location	**Field ID**	**Matrix Type**	**Date**	**Lab Report**																									
W01	W01	Water	25 Aug 2025	1260403	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W02	QA20250825_W01	Water	25 Aug 2025	ES2526333	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05	<0.05	<0.02	<0.05	<0.05	<0.05	<0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.01	<0.02	<0.01	<0.02
W02	QC20250825_W01	Water	25 Aug 2025	1260403	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W02	W02	Water	25 Aug 2025	1260403	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W03	W03	Water	25 Aug 2025	1260403	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W04	W04	Water	26 Aug 2025	1260403	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
W05	W05	Water	26 Aug 2025	1260403	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	-	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	0.04	<0.01	0.02	<0.01

TABLE E - Results of Analysis, PFAS in Surface Water
Project Number: 70548 Project Name: Mamre Road Kemps Creek

	1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	Sum of PFHxS and PFOS	Sum of WA DWER PFAS (n=10)*	Sum of PFAS	Perfluorononanesulfonic acid ion
	µg/L	µg/L	µg/L	µg/L	µg/L	ug/L	µg/L	µg/L
EQL	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01
PFAS NEMP 3.0 (2025) Freshwater 95% species protection								
PFAS NEMP 3.0 (2025) Freshwater 99% species protection								
PFAS NEMP 3.0 (2025) Recreational Water					2			

Location	Field ID	Matrix Type	Date	Lab Report								
W01	W01	Water	25 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.1	<0.01
W02	QA20250825_W01	Water	25 Aug 2025	ES2526333	<0.05	<0.05	<0.05	<0.05	<0.01	<0.01	<0.01	<0.02
W02	QC20250825_W01	Water	25 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.1	<0.01
W02	W02	Water	25 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.1	<0.01
W03	W03	Water	25 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.1	<0.01
W04	W04	Water	26 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	<0.01	<0.05	<0.1	<0.01
W05	W05	Water	26 Aug 2025	1260403	<0.01	<0.05	<0.01	<0.01	0.06	0.07	<0.1	<0.01

Appendix C Groundwater Bore Search



STATION	ZONE	EASTING	NORTHING
GW101083	56	294,954.00	6,255,523.00
GW101084	56	294,981.00	6,255,492.00
GW101087	56	294,667.00	6,255,732.00
GW101088	56	294,693.00	6,255,733.00
GW110029	56	294,449.00	6,255,217.00
GW110030	56	294,533.00	6,255,146.00
GW110031	56	294,555.00	6,255,058.00

WaterNSW
Work Summary

GW101083

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): TEST BORE

Work Type: Bore
Work Status:
Construct.Method: Percussion
Owner Type:

Commenced Date:
Completion Date: 28/05/1996
Final Depth: 78.00 m
Drilled Depth:

Contractor Name: INTERTEC DRILLING SERVICES
Driller:
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m): 9.120
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
Form A:			UNKNOWN	
Licensed:				
Region:	10 - Sydney South Coast	**CMA Map:**		
River Basin:	- Unknown	**Grid Zone:**		**Scale:**
Area/District:				
Elevation:	0.00 m (A.H.D.)	**Northing:**	6255523.000	**Latitude:** 33°49'14.3"S
Elevation Source:	Unknown	**Easting:**	294954.000	**Longitude:** 150°47'04.2"E
GS Map:	-	**MGA Zone:**	56	**Coordinate Source:** Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	78.00	158			Other
1		Annulus	(Unknown)	58.00	78.00				
1	1	Casing	P.V.C.	-0.76	78.00	50			
1	1	Opening	Screen	58.20	76.00	0		0	PVC Class 18

Remarks

23/12/1997: Bore is called BH17B

***** End of GW101083 *****

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

WaterNSW
Work Summary

GW101084

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): TEST BORE

Work Type: Bore
Work Status:
Construct.Method: Percussion
Owner Type:

Commenced Date:
Completion Date: 28/05/1996
Final Depth: 50.00 m
Drilled Depth:

Contractor Name: INTERTEC DRILLING SERVICES
Driller:
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
	Form A:		UNKNOWN	
	Licensed:			
Region:	10 - Sydney South Coast	**CMA Map:**		
River Basin:	- Unknown	**Grid Zone:**	**Scale:**	
Area/District:				
Elevation:	0.00 m (A.H.D.)	**Northing:**	6255492.000	**Latitude:** 33°49'15.3"S
Elevation Source:	Unknown	**Easting:**	294981.000	**Longitude:** 150°47'05.2"E
GS Map:	-	**MGA Zone:**	56	**Coordinate Source:** Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	50.00	158			Other
1		Annulus	(Unknown)	27.00	50.00				
1	1	Casing	Pvc Class 18	-0.78	50.00	50			
1	1	Opening	Screen	30.20	48.00	0		0	PVC Class 18

Remarks

28/05/1996: Form A Remarks:
This bore is called BH-17A

***** End of GW101084 *****

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

WaterNSW
Work Summary

GW101087

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): TEST BORE

Work Type: Bore
Work Status:
Construct.Method: Percussion
Owner Type:

Commenced Date:
Completion Date: 31/05/1996
Final Depth: 90.30 m
Drilled Depth:

Contractor Name: INTERTEC DRILLING SERVICES
Driller:
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
	Form A:		UNKNOWN	
	Licensed:			

Region: 10 - Sydney South Coast
CMA Map:
River Basin: - Unknown
Area/District:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6255732.000
Easting: 294667.000
Latitude: 33°49'07.3"S
Longitude: 150°46'53.2"E

GS Map: -
MGA Zone: 56
Coordinate Source: Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	90.30	158			Other
1		Annulus	(Unknown)	0.00	0.00				
1	1	Casing	P.V.C.	-0.70	90.30	50			
1	1	Opening	Screen	70.50	88.30	50		0	PVC, A: 0.40mm

Remarks

31/05/1996: Form A Remarks:
Bore is called BH-15B.

***** End of GW101087 *****

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

WaterNSW
Work Summary

GW101088

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): TEST BORE

Work Type: Bore
Work Status:
Construct.Method: Percussion
Owner Type:

Commenced Date:
Completion Date: 30/05/1996
Final Depth: 60.20 m
Drilled Depth:

Contractor Name: INTERTEC DRILLING SERVICES
Driller:
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

		County	Parish	Cadastre
	Form A:		UNKNOWN	
	Licensed:			
Region:	10 - Sydney South Coast	**CMA Map:**		
River Basin:	- Unknown	**Grid Zone:**	**Scale:**	
Area/District:				
Elevation:	0.00 m (A.H.D.)	**Northing:**	6255733.000	**Latitude:** 33°49'07.3"S
Elevation Source:	Unknown	**Easting:**	294693.000	**Longitude:** 150°46'54.2"E
GS Map:	-	**MGA Zone:**	56	**Coordinate Source:** Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	60.20	158			Other
1		Annulus	(Unknown)	0.00	0.00				
1	1	Casing	P.V.C.	-0.76	60.20	50			
1	1	Opening	Screen	40.40	58.20	50		0	PVC, A: 0.40mm

Remarks

30/05/1996: Form A Remarks:
Bore called BH-15A.

***** End of GW101088 *****

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

WaterNSW
Work Summary

GW110029

Licence: 10BL162687 **Licence Status:** ACTIVE

Authorised Purpose(s): MONITORING BORE
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status:
Construct.Method: Hand Auger
Owner Type: Private

Commenced Date:
Completion Date: 01/02/2004
Final Depth: 0.75 m
Drilled Depth: 0.75 m

Contractor Name: (None)
Driller: Unkown Unknown
Assistant Driller:

Property: AUSTRALIA PIPES 576 Mamre Rd ERSKINE PARK 2759 NSW
GWMA: -
GW Zone: -
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	CUMBERLAND	MELVILLE	141//843899
Licensed:	CUMBERLAND	MELVILLE	Whole Lot 141//843899

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:
CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6255217.000
Easting: 294449.000
Latitude: 33°49'23.9"S
Longitude: 150°46'44.3"E

GS Map: -
MGA Zone: 56
Coordinate Source: Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	0.75	65			Hand Dug
1	1	Casing	Lining	0.00	0.75				

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	TOPSOIL	Topsoil	
0.20	0.50	0.30	SILTY CLAY	Silty Clay	
0.50	0.75	0.25	HEAVY CLAY	Haematite	

***** End of GW110029 *****

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

WaterNSW
Work Summary

GW110030

Licence:
Licence Status:
Authorised Purpose(s):
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status:
Construct.Method: Hand Auger
Owner Type: Private

Commenced Date:
Completion Date: 01/02/2004
Final Depth: 0.75 m
Drilled Depth: 0.75 m

Contractor Name: (None)
Driller: Unkown Unknown
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:			
Licensed:	CUMBERLAND	MELVILLE	3//1124329

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:
CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6255146.000
Easting: 294533.000
Latitude: 33°49'26.3"S
Longitude: 150°46'47.5"E

GS Map: -
MGA Zone: 56
Coordinate Source: Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	0.75	65			Hand Auger
1	1	Casing	Lining	0.00	0.75				

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	TOPSOIL	Topsoil	
0.20	0.60	0.40	SILTY CLAY	Silty Clay	
0.60	0.75	0.15	HEAVY CLAY	Haematite	

***** End of GW110030 *****

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

WaterNSW
Work Summary

GW110031

Licence:
Licence Status:

Authorised Purpose(s):
Intended Purpose(s): MONITORING BORE

Work Type: Bore
Work Status:
Construct.Method: Hand Auger
Owner Type: Private

Commenced Date:
Completion Date: 01/02/2004
Final Depth: 0.75 m
Drilled Depth: 0.75 m

Contractor Name: (None)
Driller: Unkown Unknown
Assistant Driller:

Property:
GWMA:
GW Zone:
Standing Water Level (m):
Salinity Description:
Yield (L/s):

Site Details

Site Chosen By:

	County	Parish	Cadastre
Form A:	CUMBERLAND	MELVILLE	3//1124329
Licensed:			

Region: 10 - Sydney South Coast
River Basin: - Unknown
Area/District:
CMA Map:
Grid Zone:
Scale:

Elevation: 0.00 m (A.H.D.)
Elevation Source: Unknown
Northing: 6255058.000
Easting: 294555.000
Latitude: 33°49'29.1"S
Longitude: 150°46'48.3"E

GS Map: -
MGA Zone: 56
Coordinate Source: Unknown

Construction

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

Hole	Pipe	Component	Type	From (m)	To (m)	Outside Diameter (mm)	Inside Diameter (mm)	Interval	Details
1		Hole	Hole	0.00	0.75	65			Hand Auger
1	1	Casing	Lining	0.00	0.75				

Drillers Log

From (m)	To (m)	Thickness (m)	Drillers Description	Geological Material	Comments
0.00	0.20	0.20	TOPSOIL	Topsoil	
0.20	0.40	0.20	SILTY CLAY	Silty Clay	
0.40	0.75	0.35	HEAVY CLAY	Haematite	

***** End of GW110031 *****

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

Appendix D Aerial Photographs

Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 1947

AERIAL 1947

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials

Reference: NSW Government | Copyright © Spatial Services 2025

Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 1965

AERIAL 1965

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials

Reference: NSW Government | Copyright © Spatial Services 2025

Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

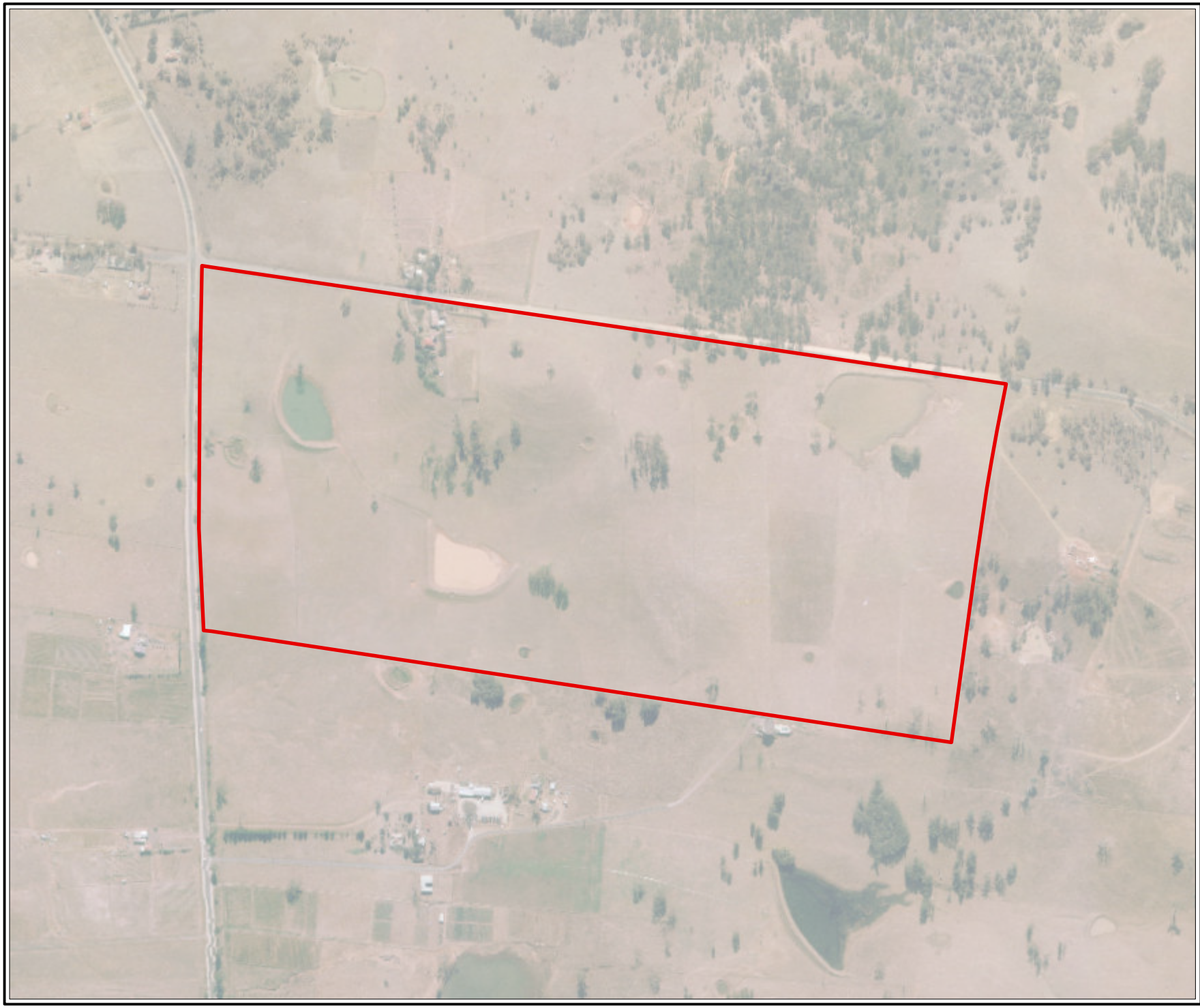
Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 1975

AERIAL 1975

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials

Reference: NSW Government | Copyright © Spatial Services 2025



Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 1986

AERIAL 1986

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials

Reference: NSW Government | Copyright © Spatial Services 2025

Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

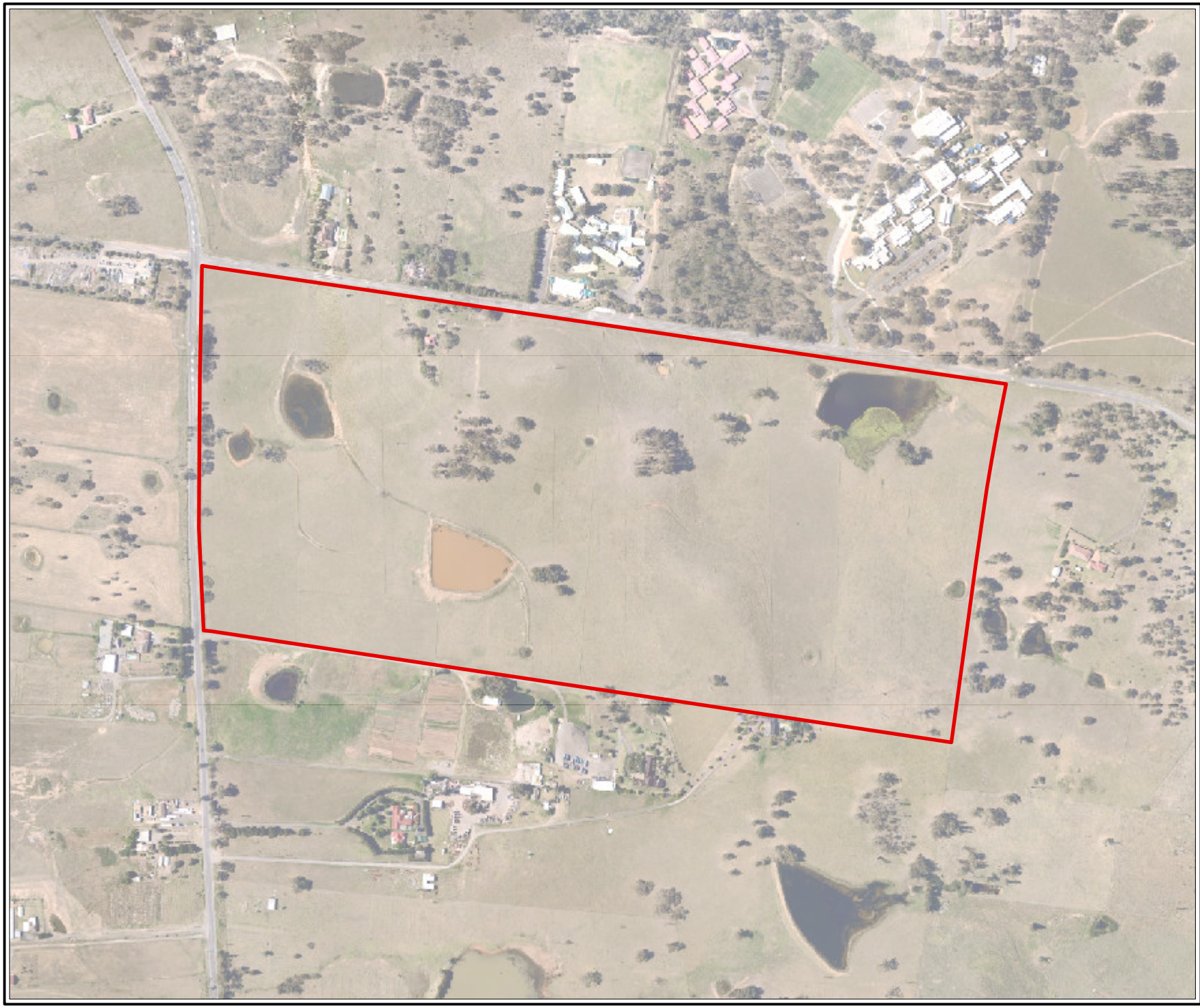
Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 1998

AERIAL 1998

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials

Reference: NSW Government | Copyright © Spatial Services 2025



Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

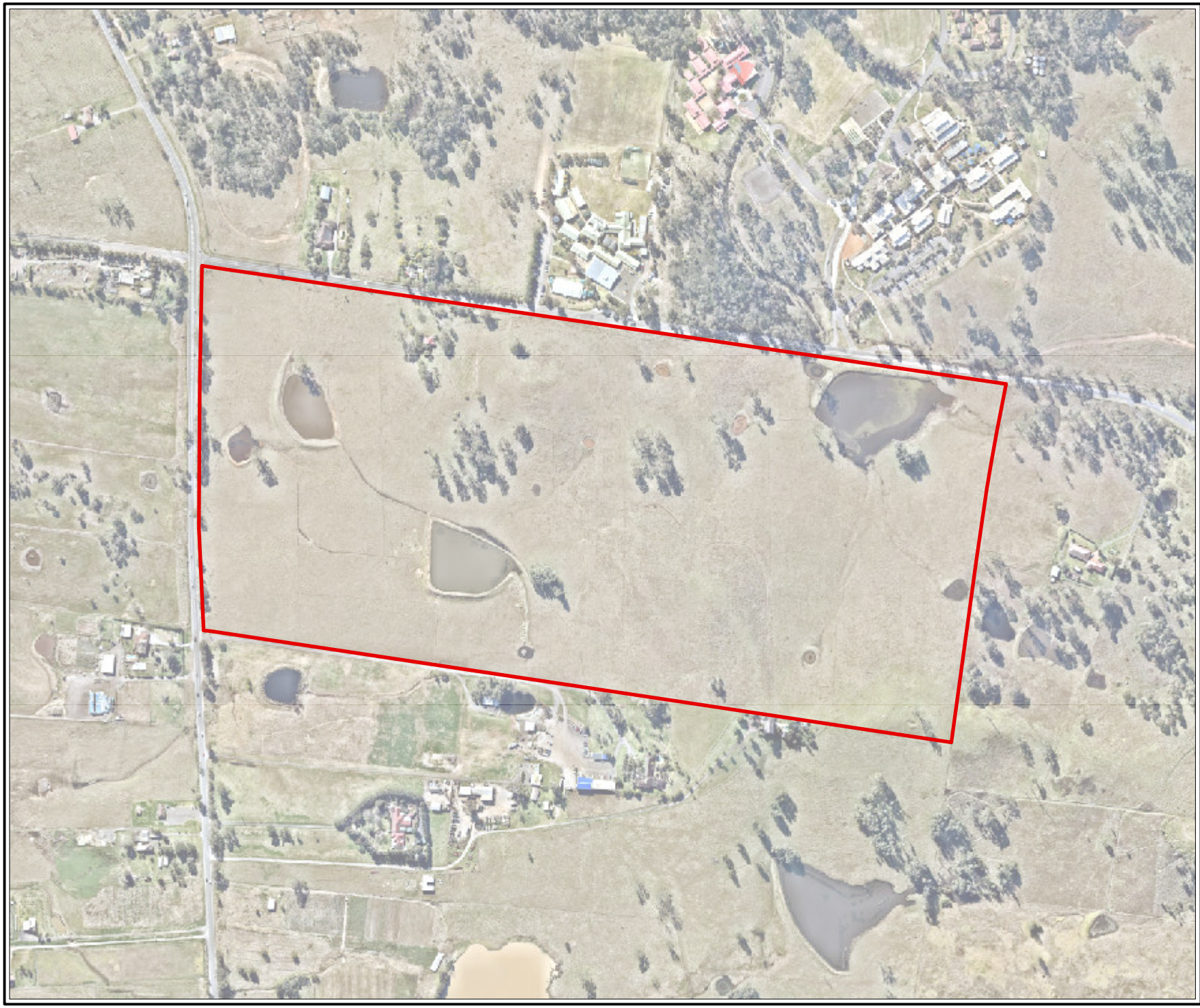
Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 2009

AERIAL 2009

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials
Reference: Nearmap - www.nearmap.com (Capture Date: 14/11/2009)



Legend

Approximate Site Boundary

JBS&G

Job No: 70548

Client: Plan Project Management Pty Ltd

Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM

Scale 1:7,000

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 2015

AERIAL 2015

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials
Reference: Nearmap - www.nearmap.com (Capture Date: 31/07/2015)

Legend

Approximate Site Boundary

JBS&G

Job No: 70548	
Client: Plan Project Management Pty Ltd	
Version: Aerials	Date 9/09/2025
Drawn By: JL	Checked By: JDM
Scale 1:7,000	

0 60 120

metres

Coord. Sys. GDA2020 MGA Zone 56

Lot 1 DP104958, 706-752 Mamre Road Suburb, NSW

HISTORICAL AERIAL - 2025

AERIAL 2025

File Name: 70548_Lot1MamreRoadKempsCreeks_Aerials
Reference: Nearmap - www.nearmap.com (Capture Date: 30/05/2025)

Appendix E EPA Records

Number	Name	Location	Type	Status	Issued date
1585407		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Oct-19
1590479		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	10-Mar-20
1591296		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Mar-20
1595377		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Jun-20
1602705		16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	26-Nov-20
1603852		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Dec-20
1605744		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Feb-21
1594184		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Apr-21
1608687		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Jul-21
1617517		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	10-Oct-22
1632544		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-Sep-23
1624781		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Oct-23
1634416		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Nov-23
1632488		BADU MURU GROVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Nov-23
1634461		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Dec-23

1634460		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Dec-23
1637064		BADU MURU GROVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	11-Apr-24
1648292		1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Pending	2-Apr-25
1648435		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	30-Apr-25
1649988		1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Pending	12-Jun-25
3085769592	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Mar-13
3085772425	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	23-Oct-13
1517820	A.C.N. 161 002 820 PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Apr-14
1606101	Blue Skip Bins Pty Ltd	5 TAVISTOCK ROAD, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	12-Mar-21
5186	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	POEO licence	Issued	21-Dec-00
1024201	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Oct-03
1032508	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Nov-03
1043715	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Jun-05
1049104	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Jul-05
1050663	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Aug-05
1051516	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Sep-05

1053429	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	1-Dec-05
1063385	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Feb-07
1071515	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-07
1080254	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Nov-07
1080704	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-08
1093240	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Oct-08
1115874	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Jun-10
1118444	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Dec-10
3085764523	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	9-Jul-12
1518646	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Apr-14
1548534	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	5-Feb-18
1563440	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Apr-18
1564013	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Jul-18
1573711	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Feb-19
1583448	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	2-Aug-19
1583033	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	13-Aug-19

1591495	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Mar-20
1634609	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	1-Dec-23
1639329	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-May-24
1645158	BRANDOWN PTY. LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Dec-24
1647134	BRANDOWN WASTE & RECYCLING SERVICES PTY LIMITED	90 RANGE ROAD CECIL PARK NSW 2178, KEMPS CREEK, NSW 2178	s.55 Licence Transfer	Pending	10-Feb-25
4068	CLEANAWAY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	13-Sep-01
12889	CLEANAWAY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	29-Jul-08
1648397	CLEANAWAY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Apr-25
1552021	DOMINIC TASSONE	819-833B Mamre Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	12-May-17
1624322	DOMINIC TASSONE	819-833B Mamre Road, KEMPS CREEK, NSW 2178	s.110 Variation of Clean Up Notice	Issued	9-Feb-23
11736	DREAM PROPERTIES PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2171	POEO licence	Revoked	28-Jan-03
1042914	DREAM PROPERTIES PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2171	s.79 Revocation of a Licence	Issued	8-Dec-04
1595824	DUNG LUU	205 LEE AND CLARK ROAD, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	6-Oct-20
20593	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	20-Dec-16
1589560	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Dec-19
1593612	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-Apr-20

1600247	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	11-Sep-20
1626745	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	26-May-23
1636503	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Mar-24
1638280	HI-QUALITY QUARRY (NSW) PTY LTD	1503-1519 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Apr-24
1645266	JOHN HOLLAND PTY LTD	BADU MURU GROVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Dec-24
3173531278	JOHNY TABUSO	395 DEVONSHIRE ROAD, KEMPS CREEK, NSW 2178	Penalty Notice	Court Elected	
4581	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	POEO licence	Revoked	27-Jun-00
1015001	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	14-Feb-02
1028286	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	25-Jun-03
1040662	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	15-Oct-04
1051514	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	19-Sep-05
1055457	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	17-May-06
1063855	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	15-Sep-06
1065320	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	6-Nov-06
1067405	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	6-Dec-06
1069425	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.79 Suspension of a Licence	Issued	15-Feb-07

1089317	KARI & GHOSSAYN PTY LTD (C/- STEVEN NICOLS - LIQUIDATOR)	CLIFTON AVE, KEMPS CREEK, NSW 2171	s.79 Revocation of a Licence	Issued	10-Jul-08
1509139	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	12-Nov-12
1511151	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	8-Jan-13
1511634	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	14-May-13
1516213	Kemps Creek Investments Pty Ltd	113 Western Rd, KEMPS CREEK, NSW 2171	s.91 Clean Up Notice	Issued	19-Sep-13
1523933	LIVERPOOL CITY COUNCIL	245 Devonshire Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	15-Sep-14
3085776091	LIVERPOOL CITY COUNCIL	245 Devonshire Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	17-Mar-15
3085781106	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	Penalty Notice	Issued	23-Dec-16
1549534	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	21-Mar-18
1562364	MAHMOUD TELLAOUI	1055 Fifteenth Avenue , KEMPS CREEK, NSW 2178	s.110 Revocation of Clean Up Notice	Issued	21-Mar-18
7219	NOVARTIS ANIMAL HEALTH AUSTRALASIA PTY. LIMITED	245 WESTERN ROAD, KEMPS CREEK, NSW 2171	POEO licence	No longer in force	26-Jun-00
1048306	NOVARTIS ANIMAL HEALTH AUSTRALASIA PTY. LIMITED	245 WESTERN ROAD, KEMPS CREEK, NSW 2171	s.58 Licence Variation	Issued	30-May-05
1530101	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	24-Jul-15
3085777815	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Oct-15
3085780464	OLATHREE PTY LTD	901 - 915 Mamre Road, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	7-Oct-16
3173524137	PACIFIC ENVIRONMENTAL AUSTRALIA PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Court Elected	

12901	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	POEO licence	Issued	29-Jul-08
1588961	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Dec-19
1620072	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-Jul-22
1631211	RECYCLING PARKS PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Jul-23
3511606	SKIPS R US PTY LTD	1293-1297 MAMRE ROAD, KEMPS CREEK, NEW SOUTH WALES 2178	s.91 Clean Up Notice	Issued	12-May-25
1090935	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Aug-08
1096728	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Jan-09
1097147	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	30-Jan-09
1098859	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Mar-09
1100214	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-May-09
1102083	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	26-Jun-09
1103753	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	29-Jul-09
1104542	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Jul-09
1110533	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Jan-10
1119663	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Oct-10
1122581	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Dec-10

1122702	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	17-Dec-10
1123904	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	10-Feb-11
1125057	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Mar-11
1127795	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-May-11
1500848	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Sep-11
1503186	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-Dec-11
3085765403	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	30-Aug-12
1506536	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	31-Aug-12
1509665	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Nov-12
1510983	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Dec-12
1521541	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-May-14
1527700	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	30-Apr-15
1534566	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Dec-15
3085778365	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Feb-16
1549817	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	16-Nov-17
1574866	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-Feb-19

1579415	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-May-19
1580789	SYDNEY RECYCLING PARK PTY LTD	16-23 Clifton Avenue, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	29-Jul-19
3173541654	SYDNEY SCIENTIFIC SERVICES GROUP PTY LTD	657 MAMRE ROAD, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	6-Dec-24
21800	SYDNEY WATER CORPORATION	BADU MURU GROVE, KEMPS CREEK, NSW 2178	POEO licence	Issued	25-Jul-23
21886	SYDNEY WATER CORPORATION	AUSTRAL TO KEMPS CREEK, KEMPS CREEK, NSW 2178	POEO licence	Issued	14-Jun-24
1651146	SYDNEY WATER CORPORATION	BADU MURU GROVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Pending	21-Jul-25
3173525796	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Withdrawn	
1012274	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	22-Nov-01
1025236	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	24-Feb-03
1027794	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	2-Jun-03
1043730	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.110 Variation of Clean Up Notice	Issued	14-Jan-05
1052725	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Jan-06
1061021	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	12-Sep-06
1065278	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-Oct-06
1073171	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Sep-07
1083456	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	13-Jan-09

1098074	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Feb-09
1099620	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-May-09
1099619	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	8-May-09
1104883	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	15-Sep-09
1114444	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-May-10
1114442	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	9-Jun-10
1118752	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	25-Aug-10
1120688	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Oct-10
1122735	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Dec-10
1123246	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	24-Dec-10
3085764890	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	27-Jul-12
1506913	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Aug-12
1511557	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Feb-13
1511861	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	8-Feb-13
3085769950	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	9-Apr-13
3085771765	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	15-Jul-13

1512996	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Nov-13
3085773580	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	11-Apr-14
1501920	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Apr-14
1523868	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Sep-14
1524373	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	3-Sep-14
1524790	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	11-Sep-14
1525953	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-Nov-14
1525173	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	11-Dec-14
1530567	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	27-Jul-15
1529767	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Aug-15
1533348	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Sep-15
1534554	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	17-Nov-15
1534998	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Nov-15
1540226	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	23-May-16
1546828	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	21-Nov-16
3085781519	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	8-Mar-17

3085782462	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	29-May-17
3085782352	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	13-Jun-17
1551698	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	7-Jul-17
1554158	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Aug-17
1556706	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	4-Dec-17
1562775	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	20-Mar-18
1564175	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	19-Jun-18
3173525805	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	29-Jun-18
1568493	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	18-Sep-18
1571059	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	14-Dec-18
1574677	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Feb-19
1572016	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	28-May-19
1575926	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	6-Jun-19
1600343	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	Compliance Audit	Complete	14-Sep-20
1613510	VEOLIA RECYCLING & RECOVERY PTY LTD	1725 ELIZABETH DRIVE, KEMPS CREEK, NSW 2178	s.58 Licence Variation	Issued	13-Dec-21
1524066	VICTOR VAN DER KLOOSTER	20 Victor Avenue, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	25-Aug-14

1524702	XPRESS TRANSPORT SOLUTIONS PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2178	s.91 Clean Up Notice	Issued	1-Sep-14
3085778109	XPRESS TRANSPORT SOLUTIONS PTY LTD	50 VICTOR AVENUE, KEMPS CREEK, NSW 2178	Penalty Notice	Issued	22-Dec-15

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KANWAL	Kanwal General Store and Fuel Supplies and Adjacent Land	68 and part of 70 Craigie AVENUE	Service Station	Contamination currently regulated under CLM Act	-33.26310031	151.4817395
KANWAL	Former Bus and Truck Rental Yard	645-647 Pacific Highway HIGHWAY	Other Petroleum	Regulation under CLM Act not required	-33.26233802	151.4825469
KARIONG	Coles Express Kariong	6 Central Coast HIGHWAY	Service Station	Regulation under CLM Act not required	-33.43443192	151.2963401
KARIONG	Caltex Service Station	Lot 2 Langford DRIVE	Service Station	Regulation under CLM Act not required	-33.43934827	151.2935447
KARUAH	BP Roadhouse Karuah	403 Tarean ROAD	Service Station	Regulation under CLM Act not required	-32.65371781	151.9629963
KATOOMBA	Aldi Stores	201 Katoomba STREET	Service Station	Regulation under CLM Act not required	-33.71756625	150.3101649
KATOOMBA	Former Katoomba/Leura Gasworks	Megalong STREET	Gasworks	Contamination currently regulated under CLM Act	-33.71304308	150.3194624
KELLYVILLE	Caltex Service Station	3-5 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71436125	150.9602175
KELLYVILLE	BP Service Station Kellyville	19-23 Windsor ROAD	Service Station	Regulation under CLM Act not required	-33.71280997	150.9590756
KELSO	Caltex Service Station Kelso	19 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41904247	149.6023985
KELSO	BP Service Station (Reliance Petroleum)	63 Sydney ROAD	Service Station	Regulation under CLM Act not required	-33.41925328	149.6076677
KELSO	23 Zagreb Street, Kelso NSW	23 Zagreb STREET	Other Industry	Regulation under CLM Act not required	-33.42724599	149.609825
KEMBLA GRANGE	ShawCor Australia	66 West Dapto ROAD	Other Petroleum	Regulation under CLM Act not required	-34.46875328	150.8106326
KEMBLAWARRA	Griffins Bay, Lake Illawarra	Shellharbour ROAD	Landfill	Regulation under CLM Act not required	-34.49653984	150.8943776

Suburb	SiteName	Address	ContaminationActivityType	ManagementClass	Latitude	Longitude
KEMPS CREEK	Caltex-branded Service Station	1163 Mamre ROAD	Service Station	Regulation under CLM Act not required	-33.86972102	150.7966074
KEMPSEY	Kempsey Showground	19 Sea STREET	Unclassified	Contamination being managed via the planning process (EP&A Act)	-31.07334836	152.8308795
KEMPSEY	Former Shell Depot	43-51 Gladstone STREET	Other Petroleum	Regulation under CLM Act not required	-31.07500944	152.8346699
KEMPSEY	Former Mobil Depot	14 Hopetoun STREET	Other Petroleum	Regulation under CLM Act not required	-31.07603107	152.8350132
KEMPSEY	Shell Coles Express Service Station Kempsey	165 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07036743	152.8461571
KEMPSEY	Mobil Depot	154 Belgrave STREET	Service Station	Regulation under CLM Act not required	-31.07965043	152.8326303
KEMPSEY	Liberty (Former Mobil) Service Station	108-112 Smith STREET	Service Station	Regulation under CLM Act not required	-31.07492508	152.8431945
KENSINGTON	7-Eleven Kensington	135 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91035885	151.2228537
KENSINGTON	Former Ampol Service Station	76-82 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9059246	151.2242891
KENSINGTON	Footpath adjacent to 10-20 Anzac Parade	10-20 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.9032124	151.2237836
KENSINGTON	Caltex Service Station	211-213 Anzac PARADE	Service Station	Regulation under CLM Act not required	-33.91460752	151.2251266
KENTHURST	Vacant Land	259 McCylmonts ROAD	Unclassified	Regulation under CLM Act not required	-33.61283529	150.9425303
KHANCOBAN	Khancoban Tip	Alpine WAY	Landfill	Regulation under CLM Act not required	-36.21994191	148.1542718
KIAMA	Former Gasworks	105 to 109 and 113 Shoalhaven STREET	Gasworks	Regulation under CLM Act not required	-34.67416881	150.8504143

Search results

Your search for: Suburb: KEMPS CREEK

Search Again Refine Search

did not find any records in our database.

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

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

Search TIP

To search for a specific site, search by LGA (local government area) and carefully review all sites listed.

... more search tips

More information about particular sites may be available from:

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

See What's in the record and What's not in the record.

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

8 September 2025

Appendix F Section 10.7 Planning Certificates

PENRITH CITY COUNCIL

Civic Centre
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PO Box 60 Penrith NSW 2751

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PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Property No: 403441 Issue Date: 17 November 2020
Your Reference: 706-752 Mamre Road, Kemps Creek Certificate No: 20/05338
Contact No:

Issued to: Ms G Macdonald
Level 5 80 George Street
PARRAMATTA NSW 2150

PRECINCT 222

DESCRIPTION OF LAND

County: CUMBERLAND **Parish: MELVILLE**

Location: 706-752 Mamre Road KEMPS CREEK NSW 2178
Land Description: Lot 1 DP 104958

- PART 1 PRESCRIBED MATTERS –

In accordance with the provisions of Section 10.7(2) of the Act the following information is furnished in respect of the abovementioned land:

1 NAMES OF RELEVANT PLANNING INSTRUMENTS AND DCPs

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

Penrith Local Environmental Plan No. 255 - Exempt and Complying Development, gazetted 24 March 2000, as amended, applies to land within the City of Penrith. (Note: This plan does not apply to the land to which Sydney Regional Environmental Plan No.30 - St Marys applies, except as provided by clause 43 of SREP No. 30 - St Marys.)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development, gazetted 29 June 2001, applies to the land.

Sydney Regional Environmental Plan No.9 - Extractive Industry (No.2), gazetted 15 September 1995, as amended, applies to the local government area of Penrith.

Sydney Regional Environmental Plan No. 20 - Hawkesbury-Nepean River (No. 2 - 1997), gazetted 7 November 1997, as amended, applies to the local government area of Penrith (except land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies).

The following State environmental planning policies apply to the land (subject to the exclusions noted below):

State Environmental Planning Policy No.19 - Bushland in Urban Areas. (Note: This policy does not apply to certain land referred to in the National Parks and Wildlife Act 1974 and the Forestry Act 1916.)

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State Environmental Planning Policy No.21 - Caravan Parks.
State Environmental Planning Policy No.33 - Hazardous and Offensive Development.
State Environmental Planning Policy No.50 - Canal Estate Development. (Note: This policy does not apply to the land to which State Environmental Planning Policy (Penrith Lakes Scheme) 1989 applies.
State Environmental Planning Policy No.55 - Remediation of Land.
State Environmental Planning Policy No.64 - Advertising and Signage.
State Environmental Planning Policy No.65 - Design Quality of Residential Apartment Development.
State Environmental Planning Policy No.70 - Affordable Housing (Revised Schemes).
State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 (Note: This policy applies to land within New South Wales that is land zoned primarily for urban purposes or land that adjoins land zoned primarily for urban purposes, but only as detailed in clause 4, 4A and 4B of the policy.)
State Environmental Planning Policy (Building Sustainability Index: BASIX) 2004.
State Environmental Planning Policy (State Significant Precincts) 2005.
State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007.
State Environmental Planning Policy (Infrastructure) 2007.
State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.
State Environmental Planning Policy (Affordable Rental Housing) 2009.
State Environmental Planning Policy (State and Regional Development) 2011.
State Environmental Planning Policy (Vegetation in Non-Rural Areas) 2017.
State Environmental Planning Policy (Education Establishments and Child Care Centre Facilities) 2017.
State Environmental Planning Policy (Primary Production and Rural Development) 2019.
State Environmental Planning Policy (Western Sydney Aerotropolis) 2020.

State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies to the land. Under the terms of this Policy the land is partly zoned Zone IN1 General Industrial and partly zoned Zone SP2 Infrastructure.

Zone IN1 General Industrial

1 Objectives of zone

- To facilitate a wide range of employment-generating development including industrial, manufacturing, warehousing, storage and research uses and ancillary office space.
- To encourage employment opportunities along motorway corridors, including the M7 and M4.
- To minimise any adverse effect of industry on other land uses.
- To facilitate road network links to the M7 and M4 Motorways.
- To encourage a high standard of development that does not prejudice the sustainability of other enterprises or the environment.
- To provide for small-scale local services such as commercial, retail and community facilities (including child care facilities) that service or support the needs of employment-generating uses in the zone.

2 Permitted without consent

Nil.

3 Permitted with consent

Building identification signs; Business identification signs; Depots; Environmental facilities; Environmental protection works; Food and drink premises; Freight transport facilities; Garden centres; Hardware and building supplies; Industrial retail outlets; Industrial training facilities; Industries (other than offensive or hazardous industries); Neighbourhood shops; Places of public worship; Recreation areas; Recreation facilities (indoor); Roads; Service stations;

Storage premises; Transport depots; Truck depots; Vehicle body repair workshops; Vehicle repair stations; Warehouse or distribution centres.

4 Prohibited

Any development not specified in item 2 or 3.

Zone SP2 Infrastructure

1 Objectives of zone .

- To provide for infrastructure and related uses.
- To prevent development that is not compatible with or that may detract from the provision of infrastructure.

2 Permitted without consent

Nil

3 Permitted with consent

Roads; The purpose shown on the Land Zoning Map, including any development that is ordinarily incidental or ancillary to development for that purpose

4 Prohibited

Any development not specified in item 2 or 3

Note 1: Land to which State Environmental Planning Policy (Western Sydney Employment Area) 2009 applies may be subdivided but only with consent. Consent is not required for subdivision detailed in Clause 14(2) of this Policy.

Note 2: Under the terms of Clause 15 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 despite any other provision of this Policy, a person may, with consent, carry out development for the purposes of a child care centre on land to which this Policy applies.

1(2) The name of each proposed environmental planning instrument that will apply to the carrying out of development on the land and that is or has been the subject of community consultation or on public exhibition under the Act:

(Information is provided in this section only if a proposed environmental planning instrument that is or has been the subject of community consultation or on public exhibition under the Act will apply to the carrying out of development on the land.)

Draft State Environmental Planning Policy (Environment) applies to the land.

Draft State Environmental Planning Policy (Remediation of Land) applies to the land.

Draft State Environmental Planning Policy (Housing Diversity) 2020 applies to the land.

Draft State Environmental Planning Policy (Cumberland Plain Conservation) applies to the land.

Draft State Environmental Planning Policy (Exempt and Complying Development Codes) 2008 applies to the land.

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1(3) The name of each development control plan that applies to the carrying out of development on the land:

Penrith Development Control Plan 2014 applies to the land.

2 ZONING AND LAND USE UNDER RELEVANT LEPs

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

2(a)-(d) the identity of the zone; the purposes that may be carried out without development consent; the purposes that may not be carried out except with development consent; and the purposes that are prohibited within the zone. Any zone(s) applying to the land is/are listed below and/or in annexures.

(Note: If no zoning appears in this section see section 1(1) for zoning and land use details (under the Sydney Regional Environmental Plan or State Environmental Planning Policy that zones this property).)

Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development

In addition to any controls detailed above Penrith Local Environmental Plan No. 258 - Consent for Dwelling Houses and Other Development sets out further circumstances where development consent will be required for particular development. A copy of this LEP is attached.

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

(Information is provided in this section only if any development standards applying to the land fix minimum land dimensions for the erection of a dwelling-house on the land and, if so, the minimum land dimensions so fixed.)

2(f) whether the land includes or comprises critical habitat:

(Information is provided in this section only if the land includes or comprises critical habitat.)

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

(Information is provided in this section only if the land is in a conservation area (however described).)

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

(Information is provided in this section only if an item of environmental heritage (however described) is situated on the land.)

2A ZONING AND LAND USE UNDER STATE ENVIRONMENTAL PLANNING POLICY (SYDNEY REGION GROWTH CENTRES) 2006

(Information is provided in this section only if the land is within any zone under State Environmental Planning Policy (Sydney Region Growth Centres) 2006.)

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3 COMPLYING DEVELOPMENT

HOUSING CODE

(The Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

RURAL HOUSING CODE

(The Rural Housing Code only applies if the land is within Zones RU1, RU2, RU3, RU4, RU6 or R5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Rural Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

LOW RISE HOUSING DIVERSITY CODE

(The Low Rise Housing Diversity Code only applies if the land is within Zones R1, R2, R3 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Low Rise Housing Diversity Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

GREENFIELD HOUSING CODE

(The Greenfield Housing Code only applies if the land is within Zones R1, R2, R3, R4 or RU5 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones, and if the land is identified as a Greenfield Housing Code Area by the Greenfield Housing Code Area Map complying development under the Greenfield Housing Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

HOUSING ALTERATIONS CODE

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

GENERAL DEVELOPMENT CODE

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

COMMERCIAL AND INDUSTRIAL ALTERATIONS CODE

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

SUBDIVISIONS CODE

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

DEMOLITION CODE

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

COMMERCIAL AND INDUSTRIAL (NEW BUILDINGS AND ADDITIONS) CODE

(The Commercial and Industrial (New Buildings and Additions) Code only applies if the land is within Zones B1, B2, B3, B4, B5, B6, B7, B8, IN1, IN2, IN3, IN4 or SP3 under Penrith Local Environmental Plan 2010 or an equivalent zone in a non standard template planning instrument.)

- The land is affected by a reservation for a public purpose. If the land is within the relevant zones complying development under the Commercial and Industrial (New Buildings and Additions) Code **may not** be carried out on any part of the land that is reserved for a public purpose by an environmental planning instrument. Complying development **may** be carried out

on any part of the land that is not reserved for a public purpose by an environmental planning instrument. For the purposes of this section "public purpose" means any land that is zoned either Zone E1, RE1, SP1 or SP2 under an environmental planning instrument or an equivalent zone in a non standard template planning instrument, or land that is subject to acquisition.

FIRE SAFETY CODE

Complying development under the Fire Safety Code **may** be carried out on the land.

(NOTE: (1) Council has relied on Planning and Infrastructure Circulars and Fact Sheets in the preparation of this information. Applicants should seek their own legal advice in relation to this matter with particular reference to State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.

(2) Penrith Local Environmental Plan 2010 (if it applies to the land) contains additional complying development not specified in State Environmental Planning Policy (Exempt and Complying Development Codes) 2008.)

4 COASTAL PROTECTION

The land is not affected by the operation of sections 38 or 39 of the Coastal Protection Act 1979, to the extent that council has been so notified by the Department of Public Works.

5 MINE SUBSIDENCE

The land is not proclaimed to be a mine subsidence district within the meaning of section 15 of the Mine Subsidence Compensation Act 1961.

6 ROAD WIDENING AND ROAD REALIGNMENT

The land is affected by road widening or road realignment under
(a) Division 2 of Part 3 of the Roads Act 1993, or
(b) an environmental planning instrument, or
(c) a resolution of Council.
Note: Additional advice may be available in section 10.7(5) information.
The land may be affected by a proposed road shown on the State Environmental Planning Policy (Western Sydney Employment Area) 2009 Transport and Arterial Road Infrastructure Plan Map (sheet TA1 001). Contact the Department of Planning, Industry, and Environment for details.

7 COUNCIL AND OTHER PUBLIC AUTHORITY POLICIES ON HAZARD RISK RESTRICTIONS

(a) Council Policies
The land is affected by the Asbestos Policy adopted by Council.
The land is not affected by any other policy adopted by the council that restricts the development of the land because of the likelihood of land slip, bushfire, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

(b) Other Public Authority Policies
The Bush Fire Co-ordinating Committee has adopted a Bush Fire Risk Management Plan that covers the local government area of Penrith City Council, and includes public, private and Commonwealth lands.

The land is not affected by a policy adopted by any other public authority and notified to the council for the express purpose of its adoption by that authority being referred to in planning certificates issued by the council, that restricts the development of the land because of the likelihood of land slip, tidal inundation, subsidence, acid sulphate soils or any other risk (other than flooding).

7A FLOOD RELATED DEVELOPMENT CONTROLS INFORMATION

(1) Development on the land or part of the land for the purposes of dwelling houses, dual occupancies, multi dwelling housing or residential flat buildings (not including development for the purposes of group homes or seniors housing) (if such uses are permissible on the land) is subject to flood related development controls.

(2) Development on the land or part of the land for industrial or commercial purposes (if such uses are permissible on the land) is subject to flood related development controls.
Development on the land or part of the land for purposes other than industrial or commercial, or for purposes other than those referred to in (1) above, will be considered on a merits based approach and flood related development controls may apply.

Note: The land is subject to Penrith Development Control Plan 2014 Section C3.5 Flood Planning. On application and payment of the prescribed fee Council may be able to provide in writing a range of advice in regard to the extent of flooding affecting the property.

8 LAND RESERVED FOR ACQUISITION

The land is affected by provisions under an environmental planning instrument, a deemed environmental planning instrument or a draft environmental planning instrument applying to the land that provides for acquisition by a public authority, as referred to in section 3.15 of the Act.

9 CONTRIBUTIONS PLANS

The Cultural Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith.

The Penrith City Local Open Space Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, excluding industrial areas and the release areas identified in Appendix B of the Plan (Penrith Lakes, Cranebrook, Sydney Regional Environmental Plan No. 30 - St Marys, Waterside, Thornton, the WELL Precinct, Glenmore Park and Erskine Park).

The Penrith City District Open Space Facilities Development Contributions Plan applies anywhere residential development is permitted within the City of Penrith, with the exclusion of industrial lands and the Penrith Lakes development site.

Penrith Citywide Section 7.12 Development Contributions Plan for non-residential development applies to all land in the City of Penrith LGA, with the exception of land within the Lambridge Estate, WELL Precinct and Penrith City Centre that are currently subject to other development contributions plans for non-residential development.

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9A BIODIVERSITY CERTIFIED LAND

(Information is provided in this section only if the land is biodiversity certified land under Part 8 of the *Biodiversity Conservation Act 2016*.)

10 BIODIVERSITY STEWARDSHIP SITES

(Information is provided in this section only if Council has been notified by the Chief Executive of the Office of Environment and Heritage that the land is land to which a biobanking stewardship agreement under Part 5 of the *Biodiversity Conservation Act 2016* relates.)

10A NATIVE VEGETATION CLEARING SET ASIDES

(Information is provided in this section only if Council has been notified of the existence of a set aside area by Local Land Services or it is registered in the public register under which section 60ZC of the *Local Land Services Act 2013* relates).

11 BUSH FIRE PRONE LAND

Some of the land is identified as bush fire prone land according to Council records. Guidance as to restrictions that may be placed on the land as a result of the land being bush fire prone can be obtained by contacting Council. Such advice would be subject to further requirements of the NSW Rural Fire Services.

12 PROPERTY VEGETATION PLANS

(Information is provided in this section only if Council has been notified that the land is land to which a property vegetation plan approved under the *Native Vegetation Act 2003* applies and continues in force.)

13 ORDERS UNDER TREES (DISPUTES BETWEEN NEIGHBOURS) ACT 2006

(Information is provided in this section only if Council has been notified that an order has been made under the Trees (Disputes Between Neighbours) Act 2006 to carry out work in relation to a tree on the land.)

14 DIRECTIONS UNDER PART 3A

(Information is provided in this section only if there is a direction by the Minister in force under section 75P(2)(c1) of the Act (repealed on 1st October 2011) that a provision of an environmental planning instrument prohibiting or restricting the carrying out of a project or a stage of a project on the land under Part 4 of the Act does not have effect.)

15 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS AFFECTING SENIORS HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (seniors housing), of which the council is aware, issued under State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 18(2) of State Environmental Planning Policy (Housing for Seniors or People with a Disability) 2004 have been imposed as a condition of consent to a development application granted after 11 October 2007 in respect of the land.)

16 SITE COMPATIBILITY CERTIFICATES FOR INFRASTRUCTURE

(Information is provided in this section only if there is a valid site compatibility certificate (infrastructure), of which council is aware, in respect of proposed development on the land.)

17 SITE COMPATIBILITY CERTIFICATES AND CONDITIONS FOR AFFORDABLE RENTAL HOUSING

(Information is provided in this section only if:

(a) there is a current site compatibility certificate (affordable rental housing), of which the council is aware, in respect of proposed development on the land; and/or

(b) any terms of a kind referred to in clause 17(1) or 37(1) of State Environmental Planning Policy (Affordable Rental Housing) 2009 have been imposed as a condition of consent to a development application in respect of the land.)

18 PAPER SUBDIVISION INFORMATION

(Information is provided in this section only if a development plan adopted by a relevant authority applies to the land or is proposed to be subject to a consent ballot, or a subdivision order applies to the land.)

19 SITE VERIFICATION CERTIFICATES

(Information is provided in this section only if there is a current site verification certificate, of which council is aware, in respect of the land.)

NOTE: The following matters are prescribed by section 59(2) of the Contaminated Land Management Act 1997 as additional matters to be specified in a planning certificate

(a) (Information is provided in this section only if, as at the date of this certificate, the land (or part of the land) is significantly contaminated land within the meaning of the Contaminated Land Management Act 1997.)

(b) (Information is provided in this section only if, as at the date of this certificate, the land is subject to a management order within the meaning of the Contaminated Land Management Act 1997.)

(c) (Information is provided in this section only if, as at the date of this certificate, the land is the subject of an approved voluntary management proposal within the meaning of the Contaminated Land Management Act 1997.)

(d) (Information is provided in this section only if, at the date of this certificate, the land subject to an ongoing maintenance order within the meaning of the Contaminated Land Management Act 1997.)

(e) (Information is provided in this section only if the land is the subject of a site audit statement within the meaning of the Contaminated Land Management Act 1997 - a copy of which has been provided to Council.)

Note: Section 10.7(5) information for this property may contain additional information regarding contamination issues.

20 LOOSE FILL ASBESTOS INSULATION

(Information is provided in this section only if there is a residential premises listed on the register of residential premises that contain or have contained loose-fill asbestos insulation (as required by Division 1A of Part 8 of the Home Building Act 1989))

21 AFFECTED BUILDING NOTICES AND BUILDING PRODUCT RECTIFICATION ORDERS

(Information is provided in this section only if Council is aware of any "affected building notice" and/or a "building product rectification order" in force for the land).

22 STATE ENVIRONMENTAL PLANNING POLICY – WESTERN SYDNEY AEROTROPOLIS 2020

The land may be subject to additional planning considerations under State Environmental Planning Policy (Western Sydney Aerotropolis) 2020):

	Planning Control	Affected?
(a)	Subject to an ANEF or ANEC contour of 20 or greater	No
(b)	Affected by the Lighting Intensity and Wind Shear Map	No
(c)	Affected by the Obstacle Limitation Surface Map	Yes
(d)	Affected by the "public safety area" on the Public Safety Area Map	No
(e)	Within the "3km zone" or the "13km zone" of the Wildlife Buffer Zone Map	Yes

Note: The Environmental Planning and Assessment Amendment Act 2017 commenced operation on the 1 March 2018. As a consequence of this Act the information contained in this certificate needs to be read in conjunction with the provisions of the Environmental Planning and Assessment (Savings, Transitional and Other Provisions) Regulation 2017, and Environmental Planning and Assessment Regulation 2000.

Information is provided only to the extent that Council has been notified by relevant government departments.

10.7(5) Certificate
This Certificate is directed to the following relevant matters affecting the land

When information pursuant to section 10.7(5) is requested the Council is under no obligation to furnish any of the information supplied herein pursuant to that section. Council draws your attention to section 10.7(6) which states that a council shall not incur any liability in respect of any advice

provided in good faith pursuant to sub-section (5). The absence of any reference to any matter affecting the land shall not imply that the land is not affected by any matter not referred to in this certificate.

Note:

- Council's 10.7(5) information does not include development consent or easement information. Details of development consents may be obtained by making enquiries with Council's Development Services Department pursuant to section 12 of the Local Government Act 1993 or (for development applications lodged after January 2007) by viewing the Online Services area at www.penrithcity.nsw.gov.au . Details of any easements may be obtained from a Title Search at Land and Property Information New South Wales.
- This certificate does not contain information relating to Complying Development Certificates.
- This certificate may not provide full details of development rights over the land.

* Draft Mamre Road Precinct Development Control Plan applies to the land.

* Biodiversity Conservation Act 2016

When considering any development application Council must have regard to the Biodiversity Conservation Act 2016. Please note that this legislation may have application to any land throughout the city. Interested persons should make their own enquiries in regard to the impact that this legislation could have on this land.

* Preservation of Trees or Vegetation

Clause 32 of State Environmental Planning Policy (Western Sydney Employment Area) 2009 details requirements relating to the preservation of trees or vegetation.

* Agricultural Activities Within Rural Areas

This property is located in a rural area and there may be certain agricultural activities occurring that some people may find offensive (for example noise, dust and odours). This should be considered if you purchase the subject property or build a dwelling thereon.
If you do purchase the subject property or build a dwelling, the potential impact that your activities (for example pets, inadequate fencing, drainage, litter and poor weed control) might have on the agricultural activities in the area should also be considered.

* Preservation of Trees and Vegetation

See Chapter C2 of Penrith Development Control Plan 2014 for specific controls relating to the preservation of trees and vegetation.

* Development Control Plan General Information

Penrith Development Control Plan 2014 which applies to the land, sets out requirements for a range of issues that apply across the Penrith Local Government Area, including:

- Site Planning and Design Principles
- Vegetation Management
- Water Management
- Land Management
- Waste Management
- Landscape Design
- Culture and Heritage
- Public Domain
- Advertising and Signage

PENRITH CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

- Transport, Access and Parking
- Subdivision
- Noise and Vibration, and
- Infrastructure and Services.

The Development Control Plan also specifies requirements relating to various types of land uses including:

- Rural Land Uses
- Residential Development
- Commercial and Retail Development, and
- Industrial Development

as well as for a number of specific activities, including child care centres; health consulting rooms; educational establishments; parent friendly amenities; places of public worship; vehicle repair stations; cemeteries, crematoria and funeral homes; extractive industries; and telecommunication facilities.

The Development Control Plan also details requirements relating to key precincts within the Penrith Local Government Area, including:

- Caddens
- Claremont Meadows Stage 2
- Cranebrook
- Emu Heights
- Emu Plains
- Erskine Business Park
- Glenmore Park
- Kingswood
- Mulgoa Valley
- Orchard Hills
- Penrith
- Penrith Health and Education Precinct
- Riverlink Precinct
- St Clair,
- St Marys / St Marys North, and
- Sydney Science Park.

Penrith Development Control Plan 2014 may be accessed at https://www.penrithcity.nsw.gov.au/Building-and-Development/Planning-and-Zoning/Planning-Controls/Development-Control-Plans/
* Draft Mamre Road Precinct Development Control Plan applies to the land.

Warwick Winn
General Manager

PER

PENRITH
CITY COUNCIL

Civic Centre
601 High Street, Penrith

PO Box 60 Penrith NSW 2751

Telephone: 02 4732 7777
Facsimile: 02 4732 7958

Email: pencit@penrithcity.nsw.gov.au

PLANNING CERTIFICATE UNDER SECTION 10.7

Environmental Planning and Assessment Act, 1979

Please note:

Certain amendments to the Environmental Planning and Assessment Act 1979 No 203 (Act) commenced on 1 March 2018.

The Environmental Planning and Assessment (Amendment) Act 2017 No 60 makes structural changes to the Act and, as a consequence, the Act has been renumbered in a decimal format. For example, Section 149 Planning Certificates have become Section 10.7 Certificates. Some of the information in this certificate may refer to the previous version of the Act.

Council is committed to updating all relevant documents in a timely manner. This will include planning instruments, applications, approvals, orders, certificates, forms and other associated documents in both printed and electronic versions. Council is required to implement these changes and regrets any inconvenience caused to the local business, industry and the community.

Attachment

Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development

1 Name of plan

This plan is *Penrith Local Environmental Plan No 258 - Consent for Dwelling Houses and Other Development.*

2 Aims of plan

This plan aims to:

(a) require development consent for dwelling houses on residentially zoned land within the City of Penrith, and

(b) require development consent for dwelling houses on land within the Non-urban zone under the *Penrith Planning Scheme Ordinance* and on land within the Special Business zone under *Penrith Local Environmental Plan 1997 (Penrith City Centre)*, and

(c) require development consent for dwelling houses attached to and used in conjunction with shops on land within the Neighbourhood Business zone under the *Penrith Planning Scheme Ordinance*, and

(d) require development consent for the following:

(i) the erection of a building or structure ordinarily associated with a dwelling house,
(ii) a change of building use,

Note. At the commencement of this plan, **a change of building use** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

(iii) demolition of a building or structure,
(iv) carrying out structural alterations to a building, internal alterations to a building, or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops,
(v) the subdivision of land,

to the extent to which such development does not already require development consent because of another environmental planning instrument in order to be carried out.

3 Land to which plan applies

This plan applies to all land within the City of Penrith.

4 Relationship to other environmental planning instruments

(1) In the event of an inconsistency between this plan and any other local environmental planning instrument or deemed environmental planning instrument, this plan shall prevail to the extent of the inconsistency, subject to section 36 (4) of the Act.

(2) This plan amends:

(a) *Penrith Planning Scheme Ordinance* in the manner set out in Schedule 1,

(b) *Penrith Local Environmental Plan 1997 (Penrith City Centre)* in the manner set out in Schedule 2, and

(c) *Penrith Local Environmental Plan 1998 (Urban Land)* in the manner set out in Schedule 3.

(3) This plan does not affect the application of:

(a) *State Environmental Planning Policy No 3 - Castlereagh Liquid Waste Disposal Depot,*

(b) State Environmental Planning Policy No 27 - Prison Sites,

(c) Sydney Regional Environmental Plan No 9 - Extractive Industry,

(d) Sydney Regional Environmental Plan No. 11 - Penrith Lakes Scheme,

(e) Sydney Regional Environmental Plan No 20 - Hawkesbury-Nepean River (No 2-1997),

(f) Sydney Regional Environmental Plan No 30 - St Marys, or

(g) Penrith Local Environmental Plan No 255 - Exempt and Complying Development,

to land to which this plan applies.

5 Definitions

(1) In this plan:

a building or structure ordinarily associated with a dwelling house means a garage, carport, pergola, swimming pool, and the like, and includes alterations and additions to an existing dwelling house.

change of building use has the same meaning as in the Act.

Note. At the commencement of this plan, a ***change of building use*** meant a change of use of a building from a use that the *Building Code of Australia* recognises as appropriate to one class of building to a use that the *Building Code of Australia* recognises as appropriate to a different class of building.

dwelling means a room or number of rooms occupied or used, or so constructed or adapted as to be capable of being occupied or used, as a separate domicile.

dwelling house means a dwelling which is the only dwelling erected on an allotment of land.

subdivision of land has the same meaning as in the Act.

the Act means the *Environmental Planning and Assessment Act 1979.*

(2) The list of contents and notes in this plan are not part of this plan.

6 Dwelling houses require development consent

(1) The erection of a dwelling house must not be carried out without development consent.

(2) This clause applies to residentially zoned land within the City of Penrith.

(3) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument.

7. Miscellaneous development that requires development consent

(1) The following development must not be carried out without development consent:

(a) erection of a building or structure ordinarily associated with a dwelling house, or

(b) development that results in a change of building use, or

(c) demolition of a building or structure, or

(d) structural, internal or external building work in association with business premises, a bed and breakfast establishment, office premises, commercial premises or take away food shops.

(2) This clause applies if the development:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

8 Subdivisions require development consent

(1) A subdivision of land must not be carried out without development consent.

(2) This clause applies if the subdivision of land:

(a) does not require development consent because of another environmental planning instrument, and

(b) is not prohibited by another environmental planning instrument, and

(c) is not identified in *Penrith Local Environmental Plan No 255 - Exempt and Complying Development* as exempt development, and

(d) does not involve Crown building work as defined in section 116G of the Act.

Schedule 1 Amendment of Penrith Planning Scheme Ordinance

(Clause 4 (2) (a))

[1] Clause 4 Interpretation
Omit the definition of ***Country dwelling.***

[2] Clause 26 Erection or use of buildings or works
Omit "country dwellings;" from Column III for Zone No 1 of the Table to the clause.

[3] Clause 26, Table
Omit "dwelling-houses other than country dwellings and rural dwellings;" from Column V for Zone No. 1.

[4] Clause 26, Table
Omit "Dwelling-houses other than semi-detached and terrace buildings." from Column III for Zone No 2(a).

[5] Clause 26, Table
Omit "Residential buildings." from Column III for Zone No 2 (b).

[6] Clause 26, Table
Omit "Dwelling-houses other than semi-detached or terrace buildings." from Column III for Zone No 2 (c).

[7] Clause 26, Table
Omit ";dwelling-houses attached to and used in conjunction with shops" from Column III for Zone No 3 (c).

[8] Clause 26, Table
Omit "Purposes" from Column IV for Zone No 3(c).

Insert instead "Buildings or other structures ordinarily associated with dwelling houses; changes of building use (as defined in the *Environmental Planning and Assessment Act 1979)*; dwelling-houses attached to and used in conjunction with shops; demolition of buildings or other structures; land uses and premises".

[9] Clause 26, Table
Insert "; structural or internal alterations to, or external building work in association with, commercial premises or refreshment rooms" after "roads" in Column IV for Zone No 3(c).

[10] Clause 38 Development in residential zones
Omit the clause.

[11] Clause 46 Variation of area required for country dwelling
Omit the clause.

Schedule 2 Amendment of Penrith Local Environmental

Plan 1997 (Penrith City Centre)

(Clause 4 (2) (b))

[1] Clause 9 Zone objectives and development control table
Omit from item (b) (i) **Without development consent** for Zone No 2 (f) in the Development Control Table:

- dwelling-houses

[2] Clause 9, table
Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 2 (f):

- buildings or other structures ordinarily associated with dwelling-houses
- demolition of buildings or other structures
- dwelling-houses

[3] Clause 20 Development of land within Zone No 3 (a)
Insert "where the new use does not involve structural or internal alterations or external buildings works" after the words "or take away food shops".

Schedule 3 Amendment of Penrith Local Environmental Plan 1998 (Urban Land)

(Clause 4 (2) (c))

[1] Clause 9 Zone objectives and development control table
Omit wherever occurring from item (b) (i) **Without development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e) in the Development Control Table:

- dwelling houses

[2] Clause 9, table
Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zones Nos 2 (a1), 2 (a), 2 (b), 2 (c), 2 (d) and 2 (e):

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- dwelling houses
- internal structural work in bed and breakfast establishments

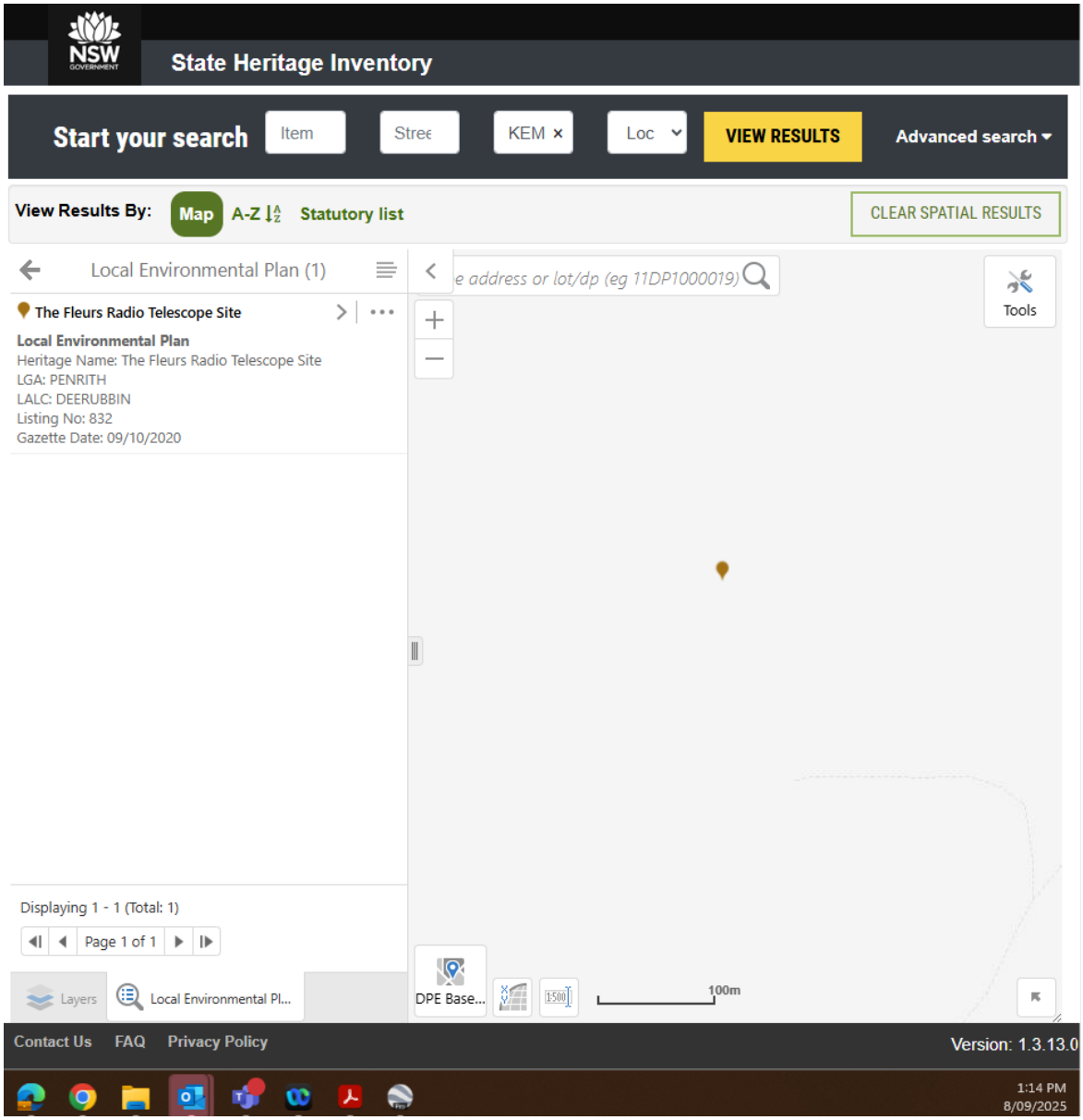
[3] Clause 9, table
Insert in alphabetical order in item b (ii) **Only with development consent** for Zones Nos 2 (r) and 2 (r1);

- buildings or other structures ordinarily associated with dwelling houses
- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- structural or internal alterations to bed and breakfast establishments

[4] Clause 9, table
Insert in alphabetical order in item (b) (ii) **Only with development consent** for Zone No 3 (f):

- changes of building use (as defined in the Act)
- demolition of buildings or other structures
- external building work associated with an existing land use carried out with consent
- structural or internal alterations to a building or other structure erected with consent or building approval

Appendix G Heritage Records



Search Results

new search edit search

1 result found.

Kemps Creek Natural Area Exeter Rd	Cecil Park, NSW, Australia	(Included place before RNE closed. Record for reference only, no statutory basis) Register of the National Estate (Non-statutory archive)

Report Produced: Mon Sep 8 13:12:41 2025

Appendix H Land Title Records

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

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

Summary of Owners Report

LRS NSW **Sydney**

Address: - 706 to 752 Mamre Road, Kemps Creek

Description: - Lot 1 in D.P. 104958

Date of Acquisition and term held	Registered Proprietor(s) & Occupations where available	Reference to Title at Acquisition and sale
18.06.1913 (1913 to 1956)	Samuel Charles Baker (Farmer)	Vol 2375 Fol 233
04.12.1956 (1956 to 1956)	Doris Muriel Clark (Married Woman) Olive May Hoyer (Married Woman) (Tenants in Common) (Transmission Application not investigated)	Vol 2375 Fol 233 Now Vol 7241 Fol's 51 & 52
04.12.1956 (1956 to 1966)	Henry Charles Hoyer (Farmer) Olive May Hoyer (Married Woman) (Tenants in Common)	Vol 7241 Fol's 51 & 52
25.05.1966 (1966 to 1972)	Olive May Hoyer (Widow)	Vol 7241 Fol's 51 & 52 Now Vol 10340 Fol 135
25.08.1972 (1972 to 2002)	Werona Pastoral Co Pty Limited	Vol 10340 Fol 135 Now 1/104958
10.12.2002 (2002 to date)	# Sam Camilleri # Elizabeth Camilleri # Adcom Holdings Pty Ltd # Michael Camilleri # Rosemary Cassar # Joseph Camilleri	1/104958

# Denotes current registered proprietor

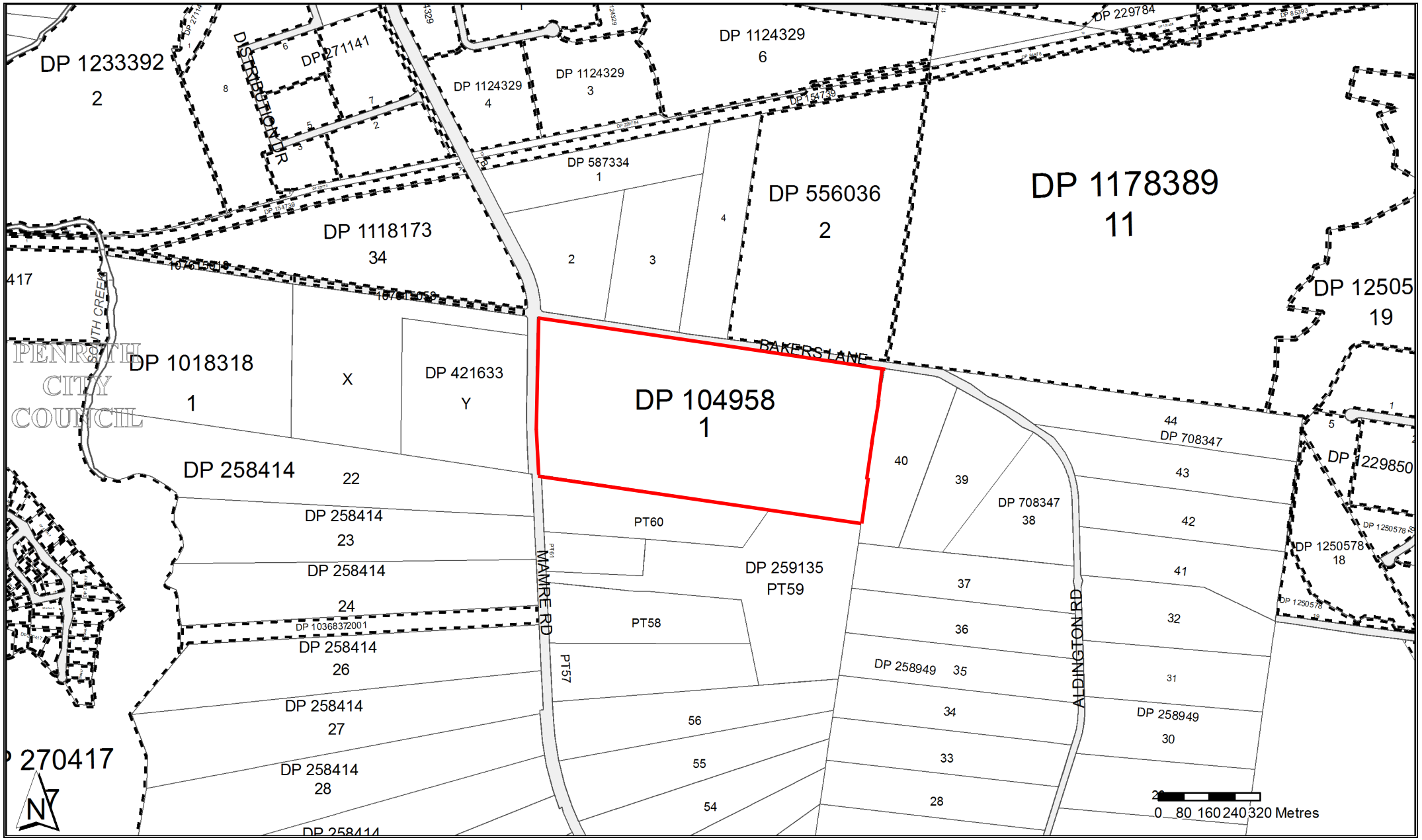
Leases & Easements: - Nil

Yours Sincerely,
Matthew Hillerman
(Checked by Mark Groll)
16 September 2019

Cadastral Records Enquiry Report : Lot 1 DP 104958

Ref : kemps creek

Locality : KEMPS CREEK
Parish : MELVILLE
LGA : PENRITH
County : CUMBERLAND



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This information is provided as a searching aid only.Whilst every endeavour is made to ensure that current map, plan and titling information is accurately reflected, the Registrar General cannot guarantee the information provided. For ALL ACTIVITY PRIOR TO SEPTEMBER 2002 you must refer to the RGs Charting and Reference Maps

InfoTrack Your Searching Partner.

Req:R953860 /Doc:CT 10340-135 CT /Rev:31-Jan-2011 /NSW LRS /Pgs:ALL /Prt:13-Sep-2019 17:07 /Seq:1 of 2
© Office of the Registrar-General /Src:INFOTRACK /Ref:kemps

10340135

[redacted]IFICATE OF TITLE

[redacted]ERTY ACT, 1900, as amended.

NEW SOUTH WALES

Application No. 17335

Prior Titles Vol. 7241 Fols. 51 and 52

Vol. 10340 Fol. 135

Edition issued 28-6-1966

K319191

RP

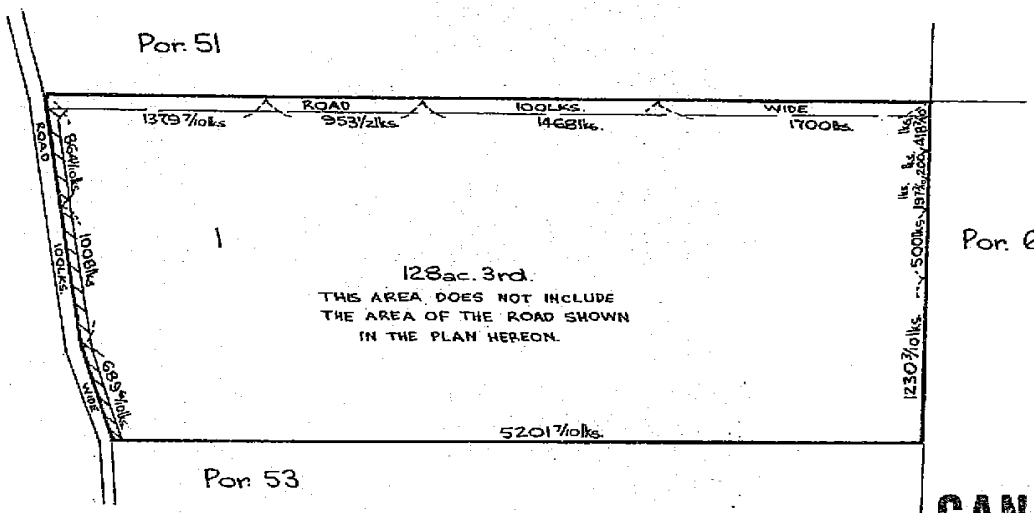
I certify that the person described in the First Schedule is the registered proprietor of the undermentioned estate in the land within described subject nevertheless to such exceptions encumbrances and interests as are shown in the Second Schedule.

Witness R B Latta

Registrar General.

(Page 1) Vol. 10340 Fol. 135

PLAN SHOWING LOCATION OF LAND



CANCELLED

K319191

Scale: 10chains to one inch.

SEE AUTO FOLIO

ESTATE AND LAND REFERRED TO

Estate in Fee Simple in Lot 1 in plan lodged with Transfer No. A26144 (filed as F.P.104958) in the City of Penrith Parish of Melville and County of Cumberland being part of Portion 52 granted to Edward Wood on 18-12-1805 excepting thereout the road shown in the plan hereon.

Registrar General.

FIRST SCHEDULE (continued overleaf)

~~OLIVE MAY HOYER of St. Marys, Widow.~~

Registrar General.

SECOND SCHEDULE (continued overleaf)

1. Reservations and conditions, if any, contained in the Crown Grant above referred to.
2. Restrictions on User No. H107598 of land shown by hatching in the plan hereon - See Section 27E(6) Main Roads Act 1924. Entered 2-4-1959.

Registrar General.

PERSONS ARE CAUTIONED AGAINST ALTERING OR ADDING TO THIS CERTIFICATE OR ANY NOTIFICATION HEREON

WARNING THIS DOCUMENT MUST NOT BE REMOVED FROM THE LAND TITLES OFFICE

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR GENERAL ARE CANCELLED

PT 1 , 17 V.C.N. Blight, Government Printer

Vol. 10340 Fol 135

FIRST SCHEDULE (continued)

REGISTERED PROPRIETOR	INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	ENTERED	Signature of Registrar-General
Werona Pastoral Co Pty Limited	Transfer	M958244	8.8.1972	25.8.1972	

SECOND SCHEDULE (continued)

INSTRUMENT NATURE	INSTRUMENT NUMBER	INSTRUMENT DATE	PARTICULARS	ENTERED	Signature of Registrar-General	CANCELLATION		
			CANCELLED SEE AUTO FOLIO					

NOTE: ENTRIES RULED THROUGH AND AUTHENTICATED BY THE SEAL OF THE REGISTRAR-GENERAL ARE CANCELLED

(Page 2 of 2 pages)

Req:R953860 /Doc:CT 10340-135 CT /Rev:31-Jan-2011 /NSW LRS /Pgs:ALL /Prt:13-Sep-2019 17:07 /Seq:2 of 2
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Historical Title

NEW SOUTH WALES LAND REGISTRY SERVICES - HISTORICAL SEARCH

SEARCH DATE
13/9/2019 5:06PM

FOLIO: 1/104958

First Title(s): SEE PRIOR TITLE(S)
Prior Title(s): VOL 10340 FOL 135

Recorded	Number	Type of Instrument	C.T. Issue
21/8/1988		TITLE AUTOMATION PROJECT	LOT RECORDED FOLIO NOT CREATED
19/10/1988		CONVERTED TO COMPUTER FOLIO	FOLIO CREATED CT NOT ISSUED
20/6/2000	6872592	MORTGAGE	EDITION 1
3/5/2001	7582283	VARIATION OF MORTGAGE	EDITION 2
5/12/2001	8174786	DISCHARGE OF MORTGAGE	
5/12/2001	8174787	MORTGAGE	EDITION 3
10/12/2002	9204026	DISCHARGE OF MORTGAGE	
10/12/2002	9204027	TRANSFER	EDITION 4
13/1/2003	9285183	DEPARTMENTAL DEALING	EDITION 5
26/11/2009	AF148462	CAVEAT	
14/2/2012	AG808716	DEPARTMENTAL DEALING	
27/9/2013	AI50175	WITHDRAWAL OF CAVEAT	
27/9/2013	AI50176	CAVEAT	
10/11/2014	AJ23773	WITHDRAWAL OF CAVEAT	

*** END OF SEARCH ***

kemps PRINTED ON 13/9/2019

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Received: 13/09/2019 17:06:51

Title Search

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 1/104958

SEARCH DATE	TIME	EDITION NO	DATE
16/9/2019	9:59 AM	5	13/1/2003

LAND

LOT 1 IN DEPOSITED PLAN 104958
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP104958

FIRST SCHEDULE

SAM CAMILLERI
ELIZABETH CAMILLERI
AS JOINT TENANTS IN 18/100 SHARE
ADCOM HOLDINGS PTY LTD
IN 21/100 SHARE
MICHAEL CAMILLERI
IN 25/100 SHARE
ROSEMARY CASSAR
IN 18/100 SHARE
JOSEPH CAMILLERI
IN 18/100 SHARE
AS TENANTS IN COMMON (T 9204027)

SECOND SCHEDULE (3 NOTIFICATIONS)

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 H107598 RESTRICTION ON USER (S.27E(6) MAIN ROADS ACT, 1924)
* 3 LAND EXCLUDES THE ROAD(S) SHOWN IN THE TITLE DIAGRAM

NOTATIONS

NOTE: THE CERTIFICATE OF TITLE FOR THIS FOLIO OF THE REGISTER DOES NOT INCLUDE SECURITY FEATURES INCLUDED ON COMPUTERISED CERTIFICATES OF TITLE ISSUED FROM 4TH JANUARY, 2004. IT IS RECOMMENDED THAT STRINGENT PROCESSES ARE ADOPTED IN VERIFYING THE IDENTITY OF THE PERSON(S) CLAIMING A RIGHT TO DEAL WITH THE LAND COMPRISED IN THIS FOLIO.

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

kemps PRINTED ON 16/9/2019

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 16/09/2019 09:59:18

NEW SOUTH WALES LAND REGISTRY SERVICES - TITLE SEARCH

FOLIO: 10/1280592

SEARCH DATE	TIME	EDITION NO	DATE
8/9/2025	1:32 PM	2	4/8/2025

LAND

LOT 10 IN DEPOSITED PLAN 1280592
AT KEMPS CREEK
LOCAL GOVERNMENT AREA PENRITH
PARISH OF MELVILLE COUNTY OF CUMBERLAND
TITLE DIAGRAM DP1280592

FIRST SCHEDULE

ISPT PTY LIMITED

SECOND SCHEDULE (3 NOTIFICATIONS)

---

1 RESERVATIONS AND CONDITIONS IN THE CROWN GRANT(S)
2 H107598 RESTRICTION ON USER (S 27E (6) MAIN ROADS ACT, 1924)
* 3 AV293179 CAVEAT BY KNBDC SYD4 PTY LTD

NOTATIONS

UNREGISTERED DEALINGS: NIL

*** END OF SEARCH ***

* Any entries preceded by an asterisk do not appear on the current edition of the Certificate of Title. Warning: the information appearing under notations has not been formally recorded in the Register. InfoTrack an approved NSW Information Broker hereby certifies that the information contained in this document has been provided electronically by the Registrar General in accordance with Section 96B(2) of the Real Property Act 1900.

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Received: 08/09/2025 13:32:11

Appendix I Calibration and Decontamination Records

airmet
Work with Confidence

Calibration Certificate

AirMet Scientific P/L
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Artarmon
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This document certifies that the instrument detailed has been calibrated to the parameters

Certificate Print Date: 29-Apr-2020
Calibration Date: 29-Apr-2020
Next Calibration Due: 26-Oct-2020

Call ID / Order No: 243318
Job No / Pack No: S2433180001

Customer: JBS&G Australia Pty Ltd-ID 202507 **Serial No:** T-107612
Description: PID, Phocheck Tiger

Calibration Summary

Frequency: 180 Days **Temp:** 22°C **As Found:** Out of Tolerance **Result:** Pass
Humidity: 45% **Certificate:** S2433180001

Desc	As Found Actual	As Found Result	As Left (Cal Status) Actual	As Left (Cal Status) Result
ISOBUTYLENE 100ppm	94.9	Fail	100.1	Pass
ISOBUTYLENE 1000ppm	967.3	Pass	1002.3	Pass

Standard Used

Equip ID	Description	Valid Until	Cert
SY297	Zero Air	11-10-2024	
SY234	ISO-BUTYLENE 1000PPM, AIR BALANCE	08-10-2021	BU 70910-022118
SY299	Isobutylene 100ppm	19-07-2024	

This instrument is not intrinsic safety due to the screen cover is peeled off.

Completed By: Jason Cheng **Signed:**

Field Equipment Calibration and Decontamination

JBS&G

PROJECT NAME: Mamre Road	PROJECT NO: 59864
FIELD DATES: 16 - 20.11.20	FIELD STAFF: CK + EP + JZ

CALIBRATION SUMMARY
EQUIPMENT: PID, Excavator, Hand auger
CALIBRATION STANDARD: Iso

DATE	TIME	READING (ppm) Iso	Zero	Bump	COMMENTS
16.11.20	7:31	100.2	0	99.6	Pass
17.11.20	8:00	99.7	0	99.8	Pass
18.11.20	7:09	100.1	0	99.7	Pass
19.11.11	7:15	99.8	0	99.6	Pass
20.11.20	7:22	100.3	0	100.1	Pass

DECONTAMINATION SUMMARY			
EQUIPMENT: Hand auger + excavator Bucket.			
1. Was the equipment decontaminated appropriately prior to sampling at each location?	(Y)	N	NA
2. Was excess soil removed by scraping, brushing or wiping with disposable towels?	(Y)	N	NA
3. Was the equipment contaminated with grease, tar or similar material? If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y Y	(N) N	NA
4. Was phosphate-free detergent used to wash the equipment?	(Y)	N	NA
5. Was the equipment rinsed with clean water?	(Y)	N	NA
6. Was the equipment then rinsed with deionised water?	(Y)	N	NA
7. Were all sample containers cleaned and acid or solvent washed prior to sample collection?	(Y)	N	NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS. New Nitrile gloves per sample.			

Appendix J Detailed QA/QC Assessment

QA/QC Results

The QA/QC result for soil, water and soil vapour samples collected are summarised in **Table J.1** and discussed below. Detailed QA/QC results are included following the discussion of DQI exceedances below.

Table J.1: QA/QC Results Summary

Data Quality Indicator	Results	DQO met?
Precision		
Blind duplicates (intra laboratory)	Soil - 0-135% RPDs Water – 0-137% RPDs Intra laboratory samples were analysed at a rate greater than 1 in 20 samples.	Partial[1]
Blind duplicates (inter laboratory)	Soil – 0-84% RPDs Water – 0-120% RPDs Inter laboratory were analysed at a rate greater than 1 in 20 samples.	Partial [1]
Laboratory duplicates	0-66 % RPD for water and soil Laboratory samples were analysed at a rate greater than 1 in 20 samples.	Partial [1]
Accuracy		
Laboratory control samples (LCS)	70-130 % recovery across water and soil samples 54-149 % recovery for PFAS Laboratory control samples were completed at a suitable density with respect to laboratory batch size and sample analyses.	Yes Partial [1]
Surrogate spikes	48-147% across water and soil samples 45-168 % recovery for PFAS Surrogate spikes were completed for all organic sample analyses	Partial [1]
Matrix spikes	70-130% recovery across water and soil samples 59-141 % recovery for PFAS Matrix spikes were completed at a suitable density with respect to laboratory batch size and sample analyses.	Yes Partial [1]
Representativeness		
Samples extracted and analysed within holding times	All primary and duplicate samples were extracted within appropriate holding times.	Yes
Sampling appropriate for media and analytes	Samples were collected using appropriate methodology with regard to the sample media (soil, water) and analytes (volatile, semi-volatile and low volatility organics and inorganics)	Yes
Trip spike	70-130%	Yes

Data Quality Indicator	Results	DQO met?
	One completed per sampling event and associated laboratory batch	
Trip blank	<LOR One completed per sampling event and associated laboratory batch	Yes
Rinsate blank	<LOR One completed per sampling event and associated laboratory batch	Yes
Standard operating procedures used for sample collection and handling	Standard operating procedures used as outlined in **Section 6** employed for all sampling events and samples collected	Yes
Comparability		
Standard analytical methods used for all analyses	Standard analytical methods used as outlined in **Section 6**	Yes
Consistent field conditions, field staff and laboratories	Sampling was conducted by the same field staff member. Standard operating procedures were implemented throughout the works. Field conditions remained the same throughout the works.	Yes
Limits of reporting appropriate and consistent	Limits of reporting were consistent and appropriate	Yes
Completeness		
Soil description and COCs completed and appropriate	All field documentation and COCs were completed appropriately.	Yes
Appropriate documentation	All field documentation was appropriately completed.	Yes
Satisfactory frequency and result for QC samples	The QC results are considered adequate for the purposes of the investigation	Yes
Data from critical samples	Samples were analysed at locations designed to address the requirements of the investigation such that a suitable data set could be established. All critical samples were analysed for appropriate COPC and the QA/QC assessment confirmed the reliability of this data.	Yes
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site assessment criteria	Analytical methods and limits of recovery were considered appropriate for media and adopted site validation criteria for all soil analytes.	Yes

Notes: 1. See discussion below for notes

Precision

Soil Blind Duplicates (intra laboratory)

The rate of blind duplicate sampling and analysis for soils was 3 blind duplicates per 57 primary samples for asbestos (5.3%) and 58 primary samples for PAHs (5.2%), 2 blind duplicates per 39 primary samples for

TRH/BTEX (5.1%), 1 blind duplicate per 19 primary samples for OCPs (5.3%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency. PFAS in soil was analysed at a rate 5 blind duplicates per 41 primary samples (12% frequency), which exceeded the nominated frequency of 10%.

Chemical analytical data RPDs were generally within the DQI except for several samples which reported DQIs between 0-135%. High RPDs in the blind duplicates can be expected when analyte concentrations are close the LOR and/or when materials are heterogeneous. On this basis, the data has generally identified to have met the DQIs for intra-laboratory duplicates and the elevated RPDs are considered a result of field/soil characteristics and not laboratory precision errors and as such do not to affect the overall reliability or precision of the data.

Soil Split Duplicates (inter laboratory)

The rate of split duplicate sampling and analysis for soils was 3 split duplicates per 57 primary samples for asbestos (5.3%) and 58 primary samples for PAHs (5.2%), 2 split duplicates per 39 primary samples for TRH/BTEX (5.1%), 1 split duplicate per 19 primary samples for OCPs (5.3%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency. PFAS in soil was analysed at a rate 5 split duplicates per 41 primary samples (12% frequency), which exceeded the nominated frequency of 10%.

Chemical analytical data RPDs were generally within the DQI except for several samples which reported DQIs between 0-84%. High RPDs in the split duplicates can be expected when analyte concentrations are close the LOR and/or when materials are heterogeneous. On this basis, the data has generally met the DQIs for intra-laboratory duplicates and the elevated RPDs are considered a result of field/soil characteristics and not laboratory precision errors and do not affect the overall precision of the data.

Water Blind Duplicates (Intra Laboratory)

The rate of blind duplicate sampling and analysis for water was 1 blind duplicate per 5 primary samples for key contaminants of concern including heavy metals, PAHs (low levels), ammonia, nitrate and nitrite (25%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency. PFAS in water was analysed at a rate 1 blind duplicate per 5 primary samples (20% frequency), which exceeded the nominated frequency of 10%.

Chemical analytical data RPDs were generally within the DQI with the exception of several samples which reported DQIs between 0-135%. High RPDs in the blind duplicates can be expected when analyte concentrations are close the LOR and/or where slight variations in water composition may exist in standing ponded water. On this basis, the data has generally i met the DQIs for intra-laboratory duplicates and the elevated RPDs are considered a result of field characteristics and not laboratory precision errors and do not affect the overall precision of the data.

Water Split Duplicates (Inter Laboratory)

The rate of split duplicate sampling and analysis for water was 1 split duplicate per 14 primary samples for heavy metals, PFAS, non-metallic inorganics, VOCs, TRH, BTEX (7.14%). As such, the frequency of duplicate sample analysis for all key contaminants of concern met/exceeded the nominated 5 % frequency. PFAS in water was analysed at a rate 1 split duplicate per 5 primary samples (20% frequency), which exceeded the nominated frequency of 10%.

Chemical analytical data RPDs were generally within the DQI with the exception of several samples which reported DQIs between 0-120%. High RPDs in the split duplicates can be expected when analyte concentrations are close the LOR/or where slight variations in water composition may exist in standing ponded water. On this basis, the data has generally met the DQIs for inter-laboratory duplicates and the elevated RPDs are considered a result of field characteristics and not laboratory precision errors and do not affect the overall precision of the data.

Laboratory Duplicates

The laboratory completed a total of 33 laboratory duplicate soil samples, and 6 laboratory duplicate water samples, within the JBS&G acceptance criteria of 1 in 20 samples. Laboratory duplicate soil samples analysed generally had RPDs within the JBS&G DQI of 0%-50% with the exception of the following:

Lab Report Number	Sample Code	Field ID	Compound	RPD %
Soil				
758576	S20-No38893-DUP	TP105 0.6-0.7	Nickel	66
757742	S20-No32123-DUP	TP26_0-0.1	Nickel	52
757712	S20-No31863-DUP	RZ13_0-0.15	Nickel	53

All laboratory duplicate water samples had RPDs within the adopted DQI range.

High RPDs in the laboratory duplicate samples can be expected when materials are heterogeneous and/or when analyte concentrations are close to LOR. Therefore, the elevated RPDs do not affect the overall precision of the data set.

Accuracy

Laboratory Control Samples

A total of 24 soil laboratory control samples (LCS) and 14 water LCS was undertaken, meeting the DQIs. LCS were reported as having recoveries within the JBS&G acceptable range of 70-130%. Some LCS PFAS sample recoveries were slightly outside the preferred range, however, noting low PFAS concentrations in soil and the generally non-detect of PFAS in water samples, the LCS recoveries outside the preferred range do not affect the reliability of the data for site assessment.

Surrogate Spikes

Surrogate spikes were conducted in conjunction with organic contaminant analysis of all samples. All surrogate spikes reported recoveries within the JBS&G acceptable range of 70%-130% with the exceptions of several samples for both water and soil which reported recoveries between 45% and 168%.

The surrogate spike recoveries outside of the target range are not considered to affect the overall reliability of the data set as concentrations in samples were close to or below the laboratory's LOR and/or were reported following a matrix interference. Surrogate spike recoveries were generally within the laboratories NATA accredited limits (50%-150%). Spike recoveries outside of the NATA accredited limits are not considered to affect the accuracy of the data set, noting the primary constituents were reported below the laboratory LOR or well below assessment criteria at applicable sample locations.

Matrix Spikes

Matrix spikes recoveries were within the JBS&G acceptable range of 70% – 130% for COPCs except some PFAS in soil. Noting the PFAS concentration in soil were well below applicable assessment criteria, the matrix spike recoveries outside the preferred limits do not affect the reliability of the data for site assessment.

Representativeness

Sampling appropriate for media and analytes

All sampling works completed during the investigation were conducted in accordance with JBS&G standard operating procedures as outlined in the Sampling, Analysis, and Quality Plan prepared for the assessment. Sample locations were undertaken based on AECs identified as well as visual inspection and/or olfactory assessment of fill/soil conditions, and the collection of samples from potentially impacted media was considered appropriate for identified COPC. All PIDs used throughout the field works were factory calibrated. Calibration certificates are provided in **Appendix I**.

All samples were collected wearing a new pair of disposable nitrile gloves. Where possible, disturbance of the sample was minimised during placement within the laboratory supplied sample container and during shipment to reduce the potential for loss of VOCs within the samples.

Holding Times

Copies of Sample Receipt Notes (SRNs) are included in relevant sections of the report (**Appendix L**) and sample extraction/analysis dates were reported in each laboratory report. All soil and water analyses were undertaken within appropriate holding times for the respective analytes.

Trip Spike

Trip spikes were submitted with characterisation samples collected during the assessment. All trip spike recoveries were generally within the JBS&G acceptable limit of 70%-130%. A trip spike was submitted with each lab batch, not per chain of custody.

Storage Blank

A storage blank sample was carried during each characterisation soil and water sampling event and was submitted at the completion of the sampling event, meeting the overall nominated frequency thresholds. There were no reported concentrations of BTEX compounds above the laboratory LOR, achieving the nominated DQIs.

Rinsate Blank

Rinsate samples were prepared during each sampling event and subsequently submitted at the completion of the sampling event for analysis for key contaminants of concern. All subsequent contaminant concentrations were below the laboratory LOR.

Decontamination Comparability

All non-single use field equipment was decontaminated as per the procedure identified in **Section 6.2.5**.

Experienced JBS&G personnel undertook all sampling in accordance with standard JBS&G sampling methods as nominated in the DGI SAQP and daily field notes pertaining to implemented decontamination procedures are presented following.

Comparability

Eurofins, the primary laboratory, and Envirolab and ALS, the secondary laboratories were NATA accredited for all analytical methods used. The laboratories used similar analytical methods and the analytical data was considered to be comparable between the laboratories as indicated by the results of inter-laboratory duplicate analyses. Where different LORs were adopted by the laboratories, the primary laboratory typically had a lower LOR than the secondary laboratory, and as such, consideration of the data set was not impacted.

It is noted the LOR for several TRH fractions were raised by the laboratory in sample TP130 0.2-0.3. This is a typical laboratory approach where interference occurs due to the presence of elevated concentrations of one or more compound. Sample TP130 0.2-0.3 was noted to contain visible hydrocarbon residue, as such the elevated concentrations are consistent with field observations. The raised LORs are considered to have

indicated contamination which will require remediation and/or management, consistent with field observations. As such, the raised LORs are not considered to affect the comparability of the data set.

Furthermore, the samples collected for assessment purposes are considered comparable as all samples were collected by experienced JBS&G personnel in accordance with standard JBS&G sampling methods.

Completeness

Documentation

All laboratory documentation, field documentation and COC documentation is complete and correct. Chain of custody documentation is provided with laboratory reports in **Appendix L.**

Sensitivity

As above, the LOR for several TRH fractions were raised by the laboratory in sample TP130 0.2-0.3. This is a typical laboratory approach where interference occurs due to the presence of elevated concentrations of one or more compound. Sample TP130 0.2-0.3 was noted to contain visible hydrocarbon residue, as such the elevated concentrations are consistent with field observations. The raised LORs are considered to have indicated contamination which will require remediation and/or management, consistent with field observations. As such, the decreased sensitivity in the analysis is not considered to affect the outcomes of the investigation.

Assessment of QA/QC

The field sampling and handling procedures produced QA/QC results which indicate that the collected soil, sediment and surface water analytical data are of an acceptable quality and suitable for use which respect to characterisation of the assessment area.

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

On the basis of the results of the field and laboratory QA/QC program, soil, sediment and surface water data is of an acceptable quality in order to achieve the objectives of the assessment.

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

Lab Report Number	757742	757742		757742	757742		757742	757742		757742	757742		757742	757742	
Field ID	TP115_0-1.0	QC01	RPD	TP115_0.2-0.3	QC02	RPD	TP109_0-1.0	QC03	RPD	TP109_0.6-0.7	QC04	RPD	TP90_0-0.1	QC05	RPD
Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
Chem_Grou	**ChemName**	**Units**	**EQL**												
Metals & M	Arsenic	mg/kg	2 : 4 (Interlab)				**4.3**	**22**	**135**				14	12	15	**9.2**	**13**	**34**
	Cadmium	mg/kg	0.4				<0.4	<0.4	0				**<0.4**	**0.7**	**55**	<0.4	<0.4	0
	Chromium (	mg/kg	5 : 1 (Interlab)				**8**	**32**	**120**				23	22	4	22	27	20
	Copper	mg/kg	5 : 1 (Interlab)				8.6	9	5				20	17	16	22	24	9
	Lead	mg/kg	5 : 1 (Interlab)				20	24	18				**30**	**22**	**31**	13	16	21
	Mercury	mg/kg	0.1				<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)				<5	<5	0				9.8	8.4	15	8.3	8.9	7
	Zinc	mg/kg	5 : 1 (Interlab)				48	53	10				36	36	0	28	29	4
etalloids																		
TPHs (NEPC	C6-C9 Fracti	mg/kg	20 : 25 (Interlab)				<20	<20	0				<20	<20	0			
	C10-C14 Fra	mg/kg	20 : 50 (Interlab)				<20	<20	0				<20	<20	0			
	C15-C28 Fra	mg/kg	50 : 100 (Interlab)				<50	<50	0				<50	<50	0			
	C29-C36 Fra	mg/kg	50 : 100 (Interlab)				<50	<50	0				<50	<50	0			
	C10-C36 Fra	mg/kg	50				<50	<50	0				<50	<50	0			
1999)																		
TRHs (NEPC	C6-C10	mg/kg	20 : 25 (Interlab)				<20	<20	0				<20	<20	0			
	C10-C16	mg/kg	50				<50	<50	0				<50	<50	0			
	C16-C34	mg/kg	100				<100	<100	0				<100	<100	0			
	C34-C40	mg/kg	100				<100	<100	0				<100	<100	0			
	C10-C40 (Su	mg/kg	100 : 50 (Interlab)				<100	<100	0				<100	<100	0			
	F1 (C6-C10 r	mg/kg	20 : 25 (Interlab)				<20	<20	0				<20	<20	0			
	F2 (C10-C16	mg/kg	50				<50	<50	0				<50	<50	0			
2013)																		
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)				<0.1	<0.1	0				<0.1	<0.1	0			
	Toluene	mg/kg	0.1 : 0.5 (Interlab)				<0.1	<0.1	0				<0.1	<0.1	0			
	Ethylbenzen	mg/kg	0.1 : 1 (Interlab)				<0.1	<0.1	0				<0.1	<0.1	0			
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)				<0.1	<0.1	0				<0.1	<0.1	0			
	Xylene (m &	mg/kg	0.2 : 2 (Interlab)				<0.2	<0.2	0				<0.2	<0.2	0			
	Xylene Total	mg/kg	0.3 : 3 (Interlab)				<0.3	<0.3	0				<0.3	<0.3	0			
	Naphthalen	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0			
PAH	Acenaphthe	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Acenaphthy	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benz(a)anth	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a) py	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(a)pyr	mg/kg	0.5				1.2	1.2	0				1.2	1.2	0	1.2	1.2	0
	Benzo(a)pyr	mg/kg	0.5				0.6	0.6	0				0.6	0.6	0	0.6	0.6	0
	Benzo(a)pyr	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fl	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(g,h,i)	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(k)fluo	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Dibenz(a,h)a	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Fluoranthen	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Indeno(1,2,3	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Naphthalen	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

			Lab Report Number	757742	757742		757742	757742		757742	757742		757742	757742		757742	757742	
			Field ID	TP115_0-1.0	QC01	**RPD**	TP115_0.2-0.3	QC02	**RPD**	TP109_0-1.0	QC03	**RPD**	TP109_0.6-0.7	QC04	**RPD**	TP90_0-0.1	QC05	**RPD**
			Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
	Phenanthre	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	PAHs (Sum c	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
Organochlor	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	g-BHC (Linda	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Aldrin + Diel	mg/kg	0.05										<0.05	<0.05	0			
	Chlordane	mg/kg	0.1										<0.1	<0.1	0			
	DDT	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	DDD	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	DDT+DDE+D	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endosulfan I	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endosulfan s	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endrin aldeh	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Endrin keto	mg/kg	0.05										<0.05	<0.05	0			
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Heptachlor I	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
	Methoxychl	mg/kg	0.2 : 0.1 (Interlab)										<0.2	<0.2	0			
	Toxaphene	mg/kg	0.1										<0.1	<0.1	0			
ine Pesticides																		
Polychlorina	Arochlor 10	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	Arochlor 12	mg/kg	0.1										<0.1	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
	PCBs (Sum c	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.5	0			
ted Biphenyls																		
Chlorinated	Hexachlorol	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.05	0			
Benzenes																		
EPA VIC - IW	Organochlor	mg/kg	0.1										<0.2	<0.2	0			
	Other Organ	mg/kg	0.1										<0.2	<0.2	0			
RG621																		
Asbestos - E	Approximat	g		756	754	0				709	681	4				558	641	14
	Mass ACM	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass Asbest	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Asbestos fro	% (w/w)		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass FA	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass Asbest	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass AF	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass asbest	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

		Lab Report Number	757742	757742		757742	757742		757742	757742		757742	757742		757742	757742	
		Field ID	TP115_0-1.0	QC01	**RPD**	TP115_0.2-0.3	QC02	**RPD**	TP109_0-1.0	QC03	**RPD**	TP109_0.6-0.7	QC04	**RPD**	TP90_0-0.1	QC05	**RPD**
		Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
	Asbestos fro	% (w/w)		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	Mass Asbest	g		0.0E0	0.0E0	0				0.0E0	0.0E0	0				0.0E0	0.0E0	0
	ACM - Comr	Comment		1	1	0				1	1	0				1	1	0
	FA- Commer	Comment		1	1	0				1	1	0				1	1	0
	AF - Comme	Comment		1	1	0				1	1	0				1	1	0
	Organic Fibr	Comment		1	1	0				1	1	0				1	1	0
	Respirable F	Comment		1	1	0				1	1	0				1	1	0
	Synthetic Fil	Comment		1	1	0				1	1	0				1	1	0
	Asbestos Re	Comment		1	1	0				1	1	0				1	1	0
urofins																		
Other	Moisture Co	%	1				**9.8**	**17**	**54**				19	20	5	**19**	**12**	**45**

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

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

Lab Report Number	757742	256165		757742	256165		757742	256165		757742	256165		757742	256165	
Field ID	TP115_0-1.0	QA01	RPD	TP115_0.2-0.3	QA02	RPD	TP109_0-1.0	QA03	RPD	TP109_0.6-0.7	QA04	RPD	TP90_0-0.1	QA05	RPD
Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
Chem_Grou	**ChemName**	**Units**	**EQL**												
Metals & M	Arsenic	mg/kg	2 : 4 (Interlab)				4.3	<4	7				**14**	**6**	**80**	**9.2**	**<4**	**79**
	Cadmium	mg/kg	0.4				<0.4	<0.4	0				<0.4	<0.4	0	<0.4	<0.4	0
	Chromium (	mg/kg	5 : 1 (Interlab)				**8**	**5**	**46**				**23**	**11**	**71**	**22**	**9**	**84**
	Copper	mg/kg	5 : 1 (Interlab)				8.6	7	21				**20**	**10**	**67**	**22**	**10**	**75**
	Lead	mg/kg	5 : 1 (Interlab)				20	15	29				**30**	**14**	**73**	**13**	**7**	**60**
	Mercury	mg/kg	0.1				<0.1	<0.1	0				<0.1	<0.1	0	<0.1	<0.1	0
	Nickel	mg/kg	5 : 1 (Interlab)				<5	2	0				**9.8**	**5**	**65**	**8.3**	**3**	**94**
	Zinc	mg/kg	5 : 1 (Interlab)				48	36	29				**36**	**16**	**77**	**28**	**13**	**73**
etalloids																		
TPHs (NEPC	C6-C9 Fracti	mg/kg	20 : 25 (Interlab)				<20	<25	0				<20	<25	0			
	C10-C14 Fra	mg/kg	20 : 50 (Interlab)				<20	<50	0				<20	<50	0			
	C15-C28 Fra	mg/kg	50 : 100 (Interlab)				<50	<100	0				<50	<100	0			
	C29-C36 Fra	mg/kg	50 : 100 (Interlab)				<50	<100	0				<50	<100	0			
	C10-C36 Fra	mg/kg	50				<50						<50					
1999)																		
TRHs (NEPC	C6-C10	mg/kg	20 : 25 (Interlab)				<20	<25	0				<20	<25	0			
	C10-C16	mg/kg	50				<50	<50	0				<50	<50	0			
	C16-C34	mg/kg	100				<100	<100	0				<100	<100	0			
	C34-C40	mg/kg	100				<100	<100	0				<100	<100	0			
	C10-C40 (Su	mg/kg	100 : 50 (Interlab)				<100	<50	0				<100	<50	0			
	F1 (C6-C10 r	mg/kg	20 : 25 (Interlab)				<20	<25	0				<20	<25	0			
	F2 (C10-C16	mg/kg	50				<50	<50	0				<50	<50	0			
2013)																		
BTEXN	Benzene	mg/kg	0.1 : 0.2 (Interlab)				<0.1	<0.2	0				<0.1	<0.2	0			
	Toluene	mg/kg	0.1 : 0.5 (Interlab)				<0.1	<0.5	0				<0.1	<0.5	0			
	Ethylbenzen	mg/kg	0.1 : 1 (Interlab)				<0.1	<1	0				<0.1	<1	0			
	Xylene (o)	mg/kg	0.1 : 1 (Interlab)				<0.1	<1	0				<0.1	<1	0			
	Xylene (m &	mg/kg	0.2 : 2 (Interlab)				<0.2	<2	0				<0.2	<2	0			
	Xylene Total	mg/kg	0.3 : 3 (Interlab)				<0.3	<3	0				<0.3	<3	0			
	Naphthalen	mg/kg	0.5				<0.5						<0.5					
PAH	Acenaphthe	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Acenaphthy	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Anthracene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benz(a)anth	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(a) py	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.05	0				<0.5	<0.05	0	<0.5	<0.05	0
	Benzo(a)pyr	mg/kg	0.5				**1.2**	**<0.5**	**82**				**1.2**	**<0.5**	**82**	**1.2**	**<0.5**	**82**
	Benzo(a)pyr	mg/kg	0.5				0.6	<0.5	18				0.6	<0.5	18	0.6	<0.5	18
	Benzo(a)pyr	mg/kg	0.5				<0.5	<0.5	0				<0.5	<0.5	0	<0.5	<0.5	0
	Benzo(b+j)fl	mg/kg	0.5				<0.5						<0.5			<0.5		
	Benzo(g,h,i)	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Benzo(k)fluo	mg/kg	0.5				<0.5						<0.5			<0.5		
	Chrysene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Dibenz(a,h)a	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Fluoranthen	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Fluorene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Indeno(1,2,3	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Naphthalen	mg/kg	0.5				<0.5						<0.5			<0.5		

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

				Lab Report Number	757742	256165		757742	256165		757742	256165		757742	256165		757742	256165	
				Field ID	TP115_0-1.0	QA01	RPD	TP115_0.2-0.3	QA02	RPD	TP109_0-1.0	QA03	RPD	TP109_0.6-0.7	QA04	RPD	TP90_0-0.1	QA05	RPD
				Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
	Phenanthre	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	Pyrene	mg/kg	0.5 : 0.1 (Interlab)				<0.5	<0.1	0				<0.5	<0.1	0	<0.5	<0.1	0
	PAHs (Sum c	mg/kg	0.5 : 0.05 (Interlab)				<0.5	<0.05	0				<0.5	<0.05	0	<0.5	<0.05	0
Organochlor	4,4-DDE	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	a-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	b-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	d-BHC	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	g-BHC (Lind	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Aldrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Dieldrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Aldrin + Die	mg/kg	0.05										<0.05					
	Chlordane	mg/kg	0.1										<0.1					
	DDT	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	DDD	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	DDT+DDE+D	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endosulfan	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endrin	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endrin alde	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Endrin keto	mg/kg	0.05										<0.05					
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Heptachlor	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
	Methoxychl	mg/kg	0.2 : 0.1 (Interlab)										<0.2	<0.1	0			
	Toxaphene	mg/kg	0.1										<0.1					
ine Pesticides																		
Polychlorina	Arochlor 10	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	Arochlor 12	mg/kg	0.1										<0.1	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	Arochlor 12	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
	PCBs (Sum c	mg/kg	0.5 : 0.1 (Interlab)										<0.5	<0.1	0			
ted Biphenyls																		
Chlorinated	Hexachlorol	mg/kg	0.05 : 0.1 (Interlab)										<0.05	<0.1	0			
Benzenes																		
EPA VIC - IW	Organochlo	mg/kg	0.1										<0.2					
	Other Orga	mg/kg	0.1										<0.2					
RG621																		
Asbestos - E	Approximat	g		756							709						558	
	Mass ACM	g		0.0E0							0.0E0						0.0E0	
	Mass Asbest	g		0.0E0							0.0E0						0.0E0	
	Asbestos fro	% (w/w)		0.0E0							0.0E0						0.0E0	
	Mass FA	g		0.0E0							0.0E0						0.0E0	
	Mass Asbest	g		0.0E0							0.0E0						0.0E0	
	Mass AF	g		0.0E0							0.0E0						0.0E0	
	Mass asbest	g		0.0E0							0.0E0						0.0E0	

Soil RPDs 2020

Project Number: 70548

Project Name: Kemps Creek DSI

Field Duplicates (soil)

Filter: Lab_Report_Numb

			Lab Report Number	757742	256165		757742	256165		757742	256165		757742	256165		757742	256165	
			Field ID	TP115_0-1.0	QA01	**RPD**	TP115_0.2-0.3	QA02	**RPD**	TP109_0-1.0	QA03	**RPD**	TP109_0.6-0.7	QA04	**RPD**	TP90_0-0.1	QA05	**RPD**
			Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		16/11/2020	16/11/2020		17/11/2020	17/11/2020	
	Asbestos fro	% (w/w)		0.0E0						0.0E0						0.0E0		
	Mass Asbest	g		0.0E0						0.0E0						0.0E0		
	ACM - Comr	Comment		1						1						1		
	FA- Commer	Comment		1						1						1		
	AF - Comme	Comment		1						1						1		
	Organic Fibr	Comment		1						1						1		
	Respirable F	Comment		1						1						1		
	Synthetic Fil	Comment		1						1						1		
	Asbestos Re	Comment		1						1						1		
urofins																		
Other	Moisture Co	%	1				9.8						19			19		

*RPDs have only been considered where a concentration is greate

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier

***Interlab Duplicates are matched on a per compound basis as r

Water RPDs 2020

Project Number: 70548 Project Name: Kemps Creek DSI

Field Duplicates (WATER)	**Lab Report Number**	757581	757581		757581	256050	
Filter: Lab_Report_Numb	**Field ID**	SW03	WQA01	**RPD**	SW03	WQC01	**RPD**
	Sampled Date/Time	16/11/2020	16/11/2020		16/11/2020	16/11/2020	

Chem_Grou	ChemName	Units	EQL						
Metals & M	Arsenic	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Cadmium	mg/l	0.0002	<0.0002	<0.0002	0	<0.0002		
	Chromium (	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Copper	mg/l	0.001	**0.006**	**0.032**	**137**	0.006		
	Lead	mg/l	0.001	<0.001	<0.001	0	<0.001		
	Mercury	mg/l	0.0001	<0.0001	<0.0001	0	<0.0001		
	Nickel	mg/l	0.001	**<0.001**	**0.003**	**100**	<0.001		
	Zinc	mg/l	0.005	**<0.005**	**0.012**	**82**	<0.005		
etalloids									
PAH	Acenaphthe	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Acenaphthy	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Anthracene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benz(a)anth	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(a) py	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(b+j)fl	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Benzo(g,h,i)	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Benzo(k)fluo	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Chrysene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Dibenz(a,h)a	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Fluoranthen	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Fluorene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Indeno(1,2,3	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Naphthalen	mg/l	1e-005	<0.00001	<0.00001	0	<0.00001		
	Phenanthre	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	Pyrene	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
	PAHs (Sum c	mg/l	1e-005 : 0.0001 (Interlab)	<0.00001	<0.00001	0	<0.00001	<0.0001	0
Non-Metalli	Ammonia as	mg/l	0.01 : 0.005 (Interlab)	0.02	0.02	0	**0.02**	**<0.005**	**120**
	Nitrate (as N	mg/l	0.02 : 0.005 (Interlab)	<0.02	<0.02	0	<0.02	<0.005	0
	Nitrite (as N	mg/l	0.02 : 0.005 (Interlab)	<0.02	<0.02	0	<0.02	<0.005	0
c Inorganics									
Ionic Balanc	pH (Lab)	PH UNITS	0.1	9	9	0	9	9.2	2
e									
Inorganics	Nitrite + Nit	mg/l	0.05	<0.05	<0.05	0	<0.05		
Other	TSS	mg/l	5	7.4	8.4	13	**7.4**	**12**	**47**

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

**High RPDs are in bold (Acceptable RPDs for each EQL multiplier range are: 30 (1-10 x EQL); 30 (10-30 x EQL); 30 (> 30 x EQL))

***Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relat

TABLE

Project Number: 70548 Project Name: Mamre Road Kemps Creek , 706-752 Mamre Road , Plan Project Management

Laboratory Duplicates

Lab Report Number			ES2526333	ES2526333		1260403	1260403		1260403	1260403		1262660	1262660		1260403	1260403		1260403	1260403	
Field ID						QC20250825_P02	QC20250825_P02		TP03-0-0.1	TP03-0-0.1		TP03-0-0.1	TP03-0-0.1		TP15-0-0.1	TP15-0-0.1		TP21-0-0.1	TP21-0-0.1	
Matrix Type			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
Date			22 Aug 2025	27 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD
	Unit	EQL																		
PFAS																				
Perfluorobutanoic acid (PFBA)	mg/kg	0.0005	<0.001	<0.001	0	<0.005	-	-	<0.005	-	-	0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	0.0005	0.0004	22	<0.005	-	-	<0.005	-	-	<0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0005	-	-	<0.005	<0.005	0	<0.005	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.01	-	-	<0.01	-	-	<0.0005	-	-	<0.01	<0.01	0	<0.01	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	<0.0002	<0.0002	0	<0.01	-	-	<0.01	-	-	<0.0005	-	-	<0.01	<0.01	0	<0.01	-	-
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.0001	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	0.0007	0.0008	13	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	<0.0002	<0.0002	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	0.0109	0.0100	9	<0.005	-	-	<0.005	-	-	0.0003	-	-	<0.005	<0.005	0	<0.005	-	-
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0001	0.0006	0.0005	18	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.0005	<0.0005	0	<0.01	-	-	<0.01	-	-	<0.0005	-	-	<0.01	<0.01	0	<0.01	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0001	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0001	<0.0005	<0.0005	0	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	<0.005	-	-	<0.005	-	-	0.0003	-	-	<0.005	-	-	<0.005	-	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.0002	-	-	-	<0.01	-	-	<0.01	-	-	0.0008	-	-	<0.01	-	-	<0.01	-	-
Sum of PFAS	mg/kg	0.0002	-	-	-	<0.05	-	-	<0.05	-	-	0.0008	-	-	<0.05	-	-	<0.05	-	-
Perfluorononanesulfonic acid ion	mg/kg	0.0001	0.0003	0.0002	40	<0.005	-	-	<0.005	-	-	<0.0001	-	-	<0.005	<0.005	0	<0.005	-	-
Moisture Content																				
Moisture Content	%	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																				
Moisture Content (dried @ 103°C)	%	1	-	-	-	30	30	0	24	24	0	24	23	4	34	-	-	25	26	4

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

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 50 (1 - 10 x EQL); 50 (10 - 30 x EQL); 50 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

TABLE

Project Number: 70548 Project Name: Mamre Road Kemps Creek , 706-752 Mamre Road , Plan Project Management

Laboratory Duplicates

JBS&G

Lab Report Number			1260403	1260403		1260403	1260403		ES2526333	ES2526333		ES2526333	ES2526333		ES2526333	ES2526333		1260403	1260403	
Field ID			TP234-0-0.1	TP234-0-0.1		TP31-0-0.1	TP31-0-0.1					QA20250825_P02			QA20250825_P03					
Matrix Type			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
Date			25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	27 Aug 2025	RPD	26 Aug 2025	26 Aug 2025	RPD
	Unit	EQL																		
PFAS																				
Perfluorobutanoic acid (PFBA)	mg/kg	0.0005	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.001	-	-	<0.001	<0.001	0	<0.005	<0.005	0
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorononanoic acid (PFNA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorodecanoic acid (PFDA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.0005	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.0005	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.0005	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.0005	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	<0.01	-	-	<0.01	<0.01	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.01	<0.01	0
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	<0.01	-	-	<0.01	<0.01	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.01	<0.01	0
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	0.0005	-	-	0.0003	<0.0002	40	<0.005	<0.005	0
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.01	-	-	<0.01	<0.01	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.01	<0.01	0
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0005	-	-	<0.0005	<0.0005	0	<0.005	<0.005	0
Sum of PFHxS and PFOS	mg/kg	0.0001	<0.005	-	-	<0.005	-	-	-	-	-	0.0005	-	-	0.0003	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.0002	<0.01	-	-	<0.01	-	-	-	-	-	0.0005	-	-	0.0003	-	-	-	-	-
Sum of PFAS	mg/kg	0.0002	<0.05	-	-	<0.05	-	-	-	-	-	0.0005	-	-	0.0003	-	-	-	-	-
Perfluorononanesulfonic acid ion	mg/kg	0.0001	<0.005	-	-	<0.005	<0.005	0	-	-	-	<0.0002	-	-	<0.0002	<0.0002	0	<0.005	<0.005	0
Moisture Content																				
Moisture Content	%	0.1	-	-	-	-	-	-	25.5	25.9	2	29.4	29.7	1	43.9	-	-	-	-	-
Other																				
Moisture Content (dried @ 103°C)	%	1	17	17	0	24	-	-	-	-	-	-	-	-	-	-	-	-	-	-

***RPDs have only been considered where a concentration is greater than 1**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable F**

*****Interlab Duplicates are matched on a per compound basis as methods v**

TABLE

Project Number: 70548 Project Name: Mamre Road Kemps Creek , 706-752 Mamre Road , Plan Project Management

Laboratory Duplicates

Lab Report Number			1260403	1260403		1260403	1260403		1260403	1260403		1262660	1262660		1262660	1262660		1262660	1262660	
Field ID						TP16-0-0.1	TP16-0-0.1		TP18-0-0.1	TP18-0-0.1										
Matrix Type			Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil		Soil	Soil	
Date			26 Aug 2025	26 Aug 2025	RPD	26 Aug 2025	26 Aug 2025	RPD	26 Aug 2025	26 Aug 2025	RPD	29 Aug 2025	29 Aug 2025	RPD	29 Aug 2025	29 Aug 2025	RPD	01 Sep 2025	01 Sep 2025	RPD
	Unit	EQL																	
PFAS																			
Perfluorobutanoic acid (PFBA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
Perfluoropentanoic acid (PFPeA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorohexanoic acid (PFHxA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluoroheptanoic acid (PFHpA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorooctanoic acid (PFOA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorononanoic acid (PFNA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorodecanoic acid (PFDA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluoroundecanoic acid (PFUnDA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorododecanoic acid (PFDoDA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorotridecanoic acid (PFTrDA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorotetradecanoic acid (PFTeDA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorooctane sulfonamide (FOSA)	mg/kg	0.0002	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	mg/kg	0.0005	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	mg/kg	0.0002	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
Perfluoropropanesulfonic acid (PFPrS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorobutanesulfonic acid (PFBS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluoropentanesulfonic acid (PFPeS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorohexanesulfonic acid (PFHxS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluoroheptane sulfonic acid (PFHpS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Perfluorooctanesulfonic acid (PFOS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	0.0005	0.0008	46	0.0005	0.0006	18	-	-	-
Perfluorodecanesulfonic acid (PFDS)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	mg/kg	0.0005	<0.01	<0.01	0	<0.01	<0.01	0	<0.01	-	-	<0.0005	<0.0005	0	<0.0005	<0.0005	0	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Sum of PFHxS and PFOS	mg/kg	0.0001	-	-	-	<0.005	-	-	<0.005	-	-	-	-	-	-	-	-	-	-	-
Sum of WA DWER PFAS (n=10)*	mg/KG	0.0002	-	-	-	<0.01	-	-	<0.01	-	-	-	-	-	-	-	-	-	-	-
Sum of PFAS	mg/kg	0.0002	-	-	-	<0.05	-	-	<0.05	-	-	-	-	-	-	-	-	-	-	-
Perfluorononanesulfonic acid ion	mg/kg	0.0001	<0.005	<0.005	0	<0.005	<0.005	0	<0.005	-	-	<0.0001	<0.0001	0	<0.0001	<0.0001	0	-	-	-
Moisture Content																				
Moisture Content	%	0.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Other																				
Moisture Content (dried @ 103°C)	%	1	-	-	-	21	-	-	26	25	4	-	-	-	-	-	-	4.5	6.6	38

***RPDs have only been considered where a concentration is greater than 1**

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable F**

*****Interlab Duplicates are matched on a per compound basis as methods v**

TABLE

Project Number: 70548 Project Name: Mamre Road Kemps Creek , 706-752 Mamre Road , Plan Project Management

Field or Interlab Duplicates

Lab Report Number			1260403	1260403		1260403	ES2526333	
Field ID			W02	QC20250825_W01		W02	QA20250825_W01	
Matrix Type			Water	Water		Water	Water	
Date			25 Aug 2025	25 Aug 2025	RPD	25 Aug 2025	25 Aug 2025	RPD
	Unit	EQL						
PFAS								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.1	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.05	0
Perfluorohexadecanoic acid (PFHxDA)	µg/L	0.05	-	-	-	-	<0.05	-
Perfluorooctane sulfonamide (FOSA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.02	0
N-Methyl perfluorooctane sulfonamide (NMeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
N-Ethyl perfluorooctane sulfonamide (NEtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
N-Methylperfluorooctanesulfonamidoethanol (N-MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
N-ethylperfluorooctanesulfonamidoethanol (NEtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
N-methylperfluorooctane sulfonamidoacetic acid (NMeFOSAA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.02	0
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	µg/L	0.02	<0.05	<0.05	0	<0.05	<0.02	0
Perfluoropropanesulfonic acid (PFPrS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.05	0
1H.1H.2H.2H-perfluorooctanesulfonic acid (6:2 FTSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.05	0
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.05	0
Sum of PFHxS and PFOS	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.01	0
Sum of WA DWER PFAS (n=10)*	ug/L	0.01	<0.05	<0.05	0	<0.05	<0.01	0
Sum of PFAS	µg/L	0.01	<0.1	<0.1	0	<0.1	<0.01	0
Perfluorononanesulfonic acid ion	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.02	0

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

****Elevated RPDs are highlighted as per QAQC Profile settings (Acceptable RPDs for each EQL multiplier range are: 30 (1 - 10 x EQL); 30 (10 - 30 x EQL); 30 (> 30 x EQL))**

*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Appendix K Soil Borelogs/Testpit Logs

TEST PIT RZ01

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,985.3
NORTHING 6,254,239.51
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets		RZ01_0-0.05	0.4	10L AQNo visible ACM observed
		0.2		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.3					RZ01_0.3-0.4	0	No Odour, Staining or Asbestos observed.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ02

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,980.4
NORTHING 6,254,231.39
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets and scrap metal		RZ02_0-0.1	0.8	No Odour, Staining or Asbestos observed.
		0.2					RZ02_0-0.3	0.9	10L AQNo visible ACM observed
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.4					RZ02_0.4-0.5	0.5	No Odour, Staining or Asbestos observed.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ03

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,991.14
NORTHING 6,254,240.11
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, rock boulders and gravels		RZ03_0-0.1	0.3	
		0.2					RZ03_0-0.3	0.7	10L AQVisible ACM observed
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity		RZ03_0.3-0.4	1	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ04

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,998.44
NORTHING 6,254,238.61
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets and igneous gravel		RZ04_0-0.1	0.9	
		0.2					RZ04_0-0.3	0.5	10L AQVisible ACM observed. 40cm x 15cm Sheeting (no ACM weight obtained)
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity		RZ04_0.3-0.4	0.4	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ05

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,002.12
NORTHING 6,254,232.69
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets, igneous gravel		RZ05_0-0.1	0	
							RZ05_0-0.2	0.3	10L AQVisible ACM observed (0.015 %w/w ACM)
		0.2		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.3					RZ05_0.3-0.4	0.3	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ06

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,994.27
NORTHING 6,254,224.16
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, road base and gravels		RZ06_0-0.1	0.9	
		0.2					RZ06_0-0.3	0.5	10L AQNo visible ACM observed
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity		RZ06_0.3-0.4	0.1	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ07

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,999.14
NORTHING 6,254,214.44
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, brick, stone boulders, concrete, large tree roots		RZ07_0-0.1	0.4	
		0.2					RZ07_0-0.3	0.7	10L AQ Visible ACM observed (0.046 %w/w ACM)
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.4							
		0.5					RZ07_0.5-0.6	0.8	No Odour, Staining or Asbestos observed.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ08

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,996.33
NORTHING 6,254,242.58
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, stone boulders, gravels and road base		RZ08_0-0.1	0.2	
		0.2					RZ08_0-0.3	0.3	10L AQ Visible ACM observed (0.020 %w/w ACM)
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity		RZ08_0.3-0.4	0	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ09

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,976.43
NORTHING 6,254,211.44
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets		RZ09_0-0.1	0.6	
		0.2					RZ09_0-0.3	0	10L AQ Visible ACM observed (0.005 %w/w ACM)
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.4					RZ09_0.4-0.5	0	No Odour, Staining or Asbestos observed.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ10

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,981.81
NORTHING 6,254,213.29
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, low plasticity with inclusions of tile, gravels and ACM fragments		RZ10_0-0.05	0.9	10L AQ Visible ACM observed+100 frags in sieve No frag bag collected QAQC_06 at 0 - 0.05 mbgs
		0.2		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, firm - stiff, with inclusions of roots, rootlets and metal pipe (redundant service) at 3.0 mbgs		RZ10_0.2-0.3	0.8	10L AQ (0.05-0.3) no ACM. No Odour or staining.
		0.3		CL	CLAY - Red - Orange, heterogeneous, dry, stiff, low plasticity				
		0.4					RZ10_0.4-0.5	1	No Odour, Staining or Asbestos observed.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ10A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,983
NORTHING 6,254,218.4
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, soft, dry, non-plastic, with inclusions of road base gravels at 0 - 0.1 mbgs		RZ10A_0-0.1	0.7	
		0.2					RZ10A_0-0.3	0.2	10L AQNo visible ACM observed
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.4					RZ10A_0.4-0.5	0.1	No Odour, Staining or Asbestos observed.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ11

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 18-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,969.57
NORTHING 6,254,206.82
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CH

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, and road base		RZ11_0-0.1	0.9	10L AQNo visible ACM observedACM on surface adjacent to location
		0.2		CL-ML	Silty CLAY - brown, heterogeneous, damp, firm, medium plasticity				
					Termination Depth at: 0.2 m.				

TEST PIT RZ12

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,984.87
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** 6,254,203.96
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CH

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly CLAY - Brown, heterogeneous, damp, soft, low plasticity with inclusions of poorly sorted igneous, road base gravel		RZ12_0-0.1	0.2	10L AQNo visible ACM observed
		0.2		Fill	Fill - Silty CLAY - Orange - brown, heterogeneous, dry, stiff, low plasticity		RZ12_0.2-0.3	0.7	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ13

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,970.92
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** 6,254,195.6
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CH

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY - (Topsoil) Organic rich brown, heterogeneous, dry, with inclusions of small road base gravels and ACM		RZ13_0-0.15	0.3	10L AQ Visible ACM observed (0.010 %w/w ACM)
		0.2		Fill	Fill - Silty CLAY - Red - brown, heterogeneous, dry, stiff with inclusions of organic materials		RZ13_0.2-0.3	0.8	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ14

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,976.44
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** 6,254,196.84
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CH

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly CLAY - Brown, heterogeneous, damp, stiff, low plasticity with inclusions of brick, roots, igneous gravel and trace glass		RZ14_0-0.1	0.7	10L AQNo visible ACM observed
		0.2		CL-ML	Silty CLAY - Red - brown, heterogeneous, damp, firm, medium plasticity		RZ14_0.1-0.2	1	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.2 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ14A

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** N/A
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** N/A
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CH

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of rounded gravels		RZ14A_0-0.1	0.5	10L AQNo visible ACM observed
		0.2		CL	Silty CLAY, red / brown mottled, heterogeneous		RZ14A_0.1-0.2	0	No Odour, Staining or Asbestos observed.
					Termination Depth at: 0.2 m.				

TEST PIT RZ15

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,987.3
NORTHING 6,254,229.57
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots, rootlets, scrap metal, concrete boulders and brick		RZ15_0-0.1	0	
							RZ15_0-0.2	0	10L AQNo visible ACM observed
		0.2		CL	CLAY - Orange - Brown, heterogeneous, damp, hard, medium plasticity				
		0.3					RZ15_0.3-0.4	0.3	No Odour, Staining or Asbestos observed.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT RZ16

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,977.97
NORTHING 6,254,223.08
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets		RZ16_0-0.1	0.3	
		0.2					RZ16_0-0.3	0.6	10L AQNo visible ACM observed
		0.3		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.4					RZ16_0.4-0.5	0.1	No Odour, Staining or Asbestos observed.
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP01

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,659.45
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,694.32
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		CL-ML	Silty Clay, yellow / brown, heterogeneous, stiff		TP01 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP02

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,669.08
NORTHING 6,253,757.38
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, damp, inclusions of medium gravel and shale		TP02 0.0-0.1	0.7	No Odour, Staining or Asbestos
		0.2		CL-GC	Gravelly CLAY, yellow / brown, medium to high plasticity, damp, inclusions of small founded gravel		TP02 0.2-0.3	0.6	No Odour, Staining or Asbestos
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP03

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,679.93
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,832.82
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		CL-ML	Silty Clay, brown, heterogeneous, firm / stiff, dry		TP03 0.0-0.1	0.1	No Odour, Staining or Asbestos
							TP03 0.1-0.2	0.7	No Odour, Staining or Asbestos
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP04

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,690.17
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,902.06
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, stiff, dry, inclusions of roots (reworked natural)		TP04 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / brown, heterogeneous, dry, inclusions of small gravels				
		0.3					TP04 0.3-0.4	0.9	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP05

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,700.41
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,971.31
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		CL	CLAY, red / brown, heterogeneous, medium plasticity, damp, soft, inclusions of roots and rootlet @ 0.05m		TP05 0.0-0.1	0.5	No Odour, Staining or Asbestos
		0.2							
		0.3					TP05 0.2-0.3	1	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP06

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,710.65
NORTHING 6,254,040.56
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Silty Clay, brown, heterogeneous, stiff, dry, Reworked natural		TP06 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL	CLAY, orange / brown, heterogeneous, medium to high plasticity, damp, inclusions of small rounded ironstone gravel				
		0.3							
		0.4					TP06 0.4-0.5	0.3	No Odour, Staining or Asbestos
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP07

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,719.57
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,101.87
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP07 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2		CL	CLAY, orange, homogeneous, medium plasticity, hard, dense, damp		TP07 0.2-0.3	0	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP08

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,590.2
NORTHING 6,253,704.56
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP08_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP09

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,598.81
NORTHING 6,253,780.7
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP09_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP10

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,610.68
NORTHING 6,253,843.06
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, soft - firm with inclusions of trace roots		TP10_0-0.1	0.5	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP11

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,620.92
NORTHING 6,253,912.3
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Light brown - brown, heterogeneous, dry, low plasticity, soft with inclusions of trace roots		TP11_0-0.1	0.6	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP12

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,631.16
NORTHING 6,253,981.55
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP12_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP13

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,645.7
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,064.36
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, dark brown, heterogeneous, low plasticity, soft, damp		TP13 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5					TP13 0.5-0.6	0.9	No Odour, Staining or Asbestos
		0.6		CL	CLAY, red, homogeneous, medium plasticity, firm, damp to wet				
		0.7							
		0.8							
		0.9							
		1					TP13 1.0-1.1	0.9	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP14

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,520.96
NORTHING 6,253,714.8
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP14_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP15

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,508.16
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,792.95
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non-plastic, firm with inclusions of trace roots		TP15_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP16

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,541.44
NORTHING 6,253,853.3
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, soft - firm with inclusions of trace roots		TP16_0-0.1	0	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP17

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,551.67
NORTHING 6,253,922.54
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Light brown - brown, heterogeneous, dry, low plasticity, soft with inclusions of trace roots		TP17_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP18

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,566.92
NORTHING 6,253,989.92
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP18_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP19

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,451.71
NORTHING 6,253,725.04
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP19_0-0.1	0.6	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP20

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,452.48
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,795.57
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non-plastic, firm with inclusions of trace roots		TP20_0-0.1	0.2	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP21

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,472.19
NORTHING 6,253,863.53
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, soft - firm with inclusions of trace roots		TP21_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP22

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,482.43
NORTHING 6,253,932.78
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Light brown - brown, heterogeneous, dry, low plasticity, soft with inclusions of trace roots		TP22_0-0.1	0.2	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP23

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,492.67
NORTHING 6,254,002.03
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP23_0-0.1	0	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP24

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,572.2
NORTHING 6,254,045.23
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP24 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2							
		0.3		CL	CLAY, orange / brown mottled, heterogeneous, medium plasticity, firm, damp				
		0.4							
		0.5					TP24 0.5-0.6	0.6	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2					TP24 1.2-1.3	0.2	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5							
		1.6			Termination Depth at: 1.5 m.				
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP25

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,522.22
NORTHING 6,254,076.32
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, non to low plasticity, soft, dry to damp		TP25 0.0-0.1	1	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5					TP25 0.5-0.6	0.6	No Odour, Staining or Asbestos
		0.6		CL	CLAY, orange / red / grey mottled, heterogeneous, medium plasticity, firm, damp				
		0.7							
		0.8							
		0.9					TP25 0.9-1.0	0.8	No Odour, Staining or Asbestos
		1							
		1.1							
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP26

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,504.59
NORTHING 6,254,130.2
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty Clay, light brown, heterogeneous, non to low plasticity, soft		TP26 0.0-0.1	0	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5					TP26 0.5-0.6	0	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1		CL	CLAY, red, homogeneous, low to medium plasticity, stiff, hard, dry				
		1.1							
		1.2					TP26 1.2-1.3	0.2	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5			Termination Depth at: 1.5 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP27

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,574.25
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,163.1
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP27 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5							
		0.6		CL	CLAY, orange / brown, homogeneous, medium plasticity, hard, dense, damp				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2					TP27 1.2-1.3	0.6	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2			Termination Depth at: 2.0 m.				
		2.1							

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TEST PIT TP28

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,382.46
NORTHING 6,253,735.28
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP28_0-0.1	0.2	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP29

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,392.7
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,804.53
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP29_0-0.1	0.3	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP30

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,402.94
NORTHING 6,253,873.77
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, soft - firm with inclusions of trace roots		TP30_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP31

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,413.18
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,943.02
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Light brown - brown, heterogeneous, dry, non-plastic, soft with inclusions of trace roots		TP31_0-0.1	0.6	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP32

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,423.42
NORTHING 6,254,012.27
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP32_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP33

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,444.2
NORTHING 6,254,093.85
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft - firm with inclusion of trace grass roots		TP33_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP34

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,443.9
NORTHING 6,254,150.76
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP34 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2		CL	CLAY, orange / brown, heterogeneous, low plasticity, hard, dense, damp		TP34 0.2-0.3	0.4	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP35

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,313.22
NORTHING 6,253,745.52
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Dark brown, heterogeneous, dry, non plastic with inclusions of trace grass roots		TP35_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP36

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,323.45
NORTHING 6,253,814.77
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic with inclusions of trace grass roots		TP36_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP37

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,333.69
NORTHING 6,253,884.01
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, soft - firm with inclusions of trace roots		TP37_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP38

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,343.93
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,953.26
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP38_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP39

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,354.17
NORTHING 6,254,022.51
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft with inclusions of grass roots		TP39_0-0.1	0.9	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP40

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,364.41
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,254,091.75
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, firm with inclusions of grass roots		TP40_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP41

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,374.65
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,161
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP41 0.0-0.1	0	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / grey, heterogeneous, low plasticity, hard, dense, damp		TP41 0.2-0.3	0.4	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP42

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,243.97
NORTHING 6,253,755.76
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty CLAY, reworked natural - (Topsoil) Brown, heterogeneous, dry, soft, non-plastic		TP42_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m. Natural material observed at base.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP43

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,254.21
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,253,825
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty CLAY, reworked natural - (Topsoil) Brown, heterogeneous, dry, soft, non-plastic		TP43_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m. Natural material observed at base.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP44

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,264.45
NORTHING 6,253,894.25
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Yellow - brown, heterogeneous, dry, low plasticity, soft		TP44_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2					TP44_0.2-0.3	0.4	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP45

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,274.69
NORTHING 6,253,963.5
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty CLAY, reworked natural - (Topsoil) Brown, heterogeneous, dry, soft, non-plastic		TP45_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP46

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,284.93
NORTHING 6,254,032.75
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, non plastic - low plasticity, firm with inclusions of trace roots		TP46_0-0.1	0.9	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP47

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,295.16
NORTHING 6,254,101.99
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, firm with inclusions of trace roots, leaves and gravels		TP47_0-0.1	0	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP48

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,305.4
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,171.24
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP48 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red, heterogeneous, low plasticity, hard, dense, damp		TP48 0.2-0.3	0.4	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP49

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,174.72
NORTHING 6,253,766
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, low plasticity, soft		TP49_0-0.1	0.4	No Odour, Staining or Asbestos observed.
		0.2							
		0.3		CL	CLAY - Yellow - brown, heterogeneous, damp, hard, dense, medium plasticity		TP49_0.3-0.4	0.7	No Odour, Staining or Asbestos observed.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP50

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,184.96
NORTHING 6,253,835.24
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY - (Topsoil) Brown, heterogeneous, dry, soft, non-plastic		TP50_0-0.1	0.5	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Red - Brown, homogeneous, damp, hard, dense, medium plasticity				
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP51

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,195.2
NORTHING 6,253,904.49
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty CLAY, reworked natural - (Topsoil) Brown, heterogeneous, dry, soft, non-plasticIncreasing volume of natural clay and stiffness		TP51_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2					TP51_0.2-0.3	0.1	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP52

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,205.44
NORTHING 6,253,973.74
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp with inclusions of roots		TP52_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp, firm - stiff with inclusions of roots and gravels		TP52_0.2-0.3	0.6	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP53

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,215.68
NORTHING 6,254,042.98
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1 0.2		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Yellow - Brown, heterogeneous, damp, firm - stiff with inclusions of roots and gravels		TP53_0-0.1	0	No Odour, Staining or Asbestos observed.
		0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 0.3 m.				

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TEST PIT TP54

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,225.92
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,254,112.23
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - CLAY - Red - brown, heterogeneous, dry, stiff - hard, low plasticity		TP54_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Red - brown, heterogeneous, mottled, damp, firm, low - medium plasticity				
		0.3					TP54_0.3-0.4	0.7	No Odour, Staining or Asbestos observed.
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP56

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,103.49
NORTHING 6,253,768.43
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1 0.2 0.3		RWN	Fill - Re-Worked Natural - Silty CLAY, brown, heterogeneous, wet		TP56_0-0.1	0.5	No Odour, Staining or Asbestos observed.Drainage channel encountered
		0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 0.3 m.				

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TEST PIT TP58

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,125.95
NORTHING 6,253,914.73
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp with inclusions of roots		TP58_0-0.1	0	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP59

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,136.19
NORTHING 6,253,983.98
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp with inclusions of roots		TP59_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Yellow - brown, heterogeneous, mottled, damp, firm, low - medium plasticity		TP59_0.2-0.3	1	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP60

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,146.43
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 19-Nov-20	**NORTHING** 6,254,053.22
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp with inclusions of roots		TP60_0-0.1	0.5	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP61

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,156.67
NORTHING 6,254,122.47
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, firm, stiff		TP61 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2							Refusal @ 0.2m
					Termination Depth at: 0.2 m.				

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TEST PIT TP62

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,166.91
NORTHING 6,254,191.72
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		CL-ML	Silty CLAY, brown, heterogeneous, very firm, stiff, inclusions of roots		TP62 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP63

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,036.23
NORTHING 6,253,786.47
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY (Topsoil) - Brown, heterogeneous, damp with inclusions of roots		TP63_0-0.1	0.6	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Yellow - brown, heterogeneous, mottled, damp, firm, low - medium plasticity		TP63_0.2-0.3	0.9	No Odour, Staining or Asbestos observed.
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP64

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,066.42
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,985.75
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP64 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		CL	CLAY, yellow / brown, heterogeneous, dry		TP64 0.2-0.3	0.7	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP65

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,077.18
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,063.46
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, firm, dry		TP65 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		CL-ML-GM	Gravelly Silty CLAY, brown, heterogeneous, extremely stiff, hard, dry		TP65 0.2-0.3	0.5	No Odour, Staining or Asbestos
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP66

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,087.42
NORTHING 6,254,132.71
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, hard / firm, dry, inclusions of roots		TP66 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, brown / yellow / orange, heterogeneous, very stiff, dry				
		0.3					TP66 0.2-0.3	0.2	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP67

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,104.51
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,201.24
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, low plasticity, firm, dry, inclusions of roots		TP67 0.0-0.1	1	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, brown, heterogeneous, low plasticity, very stiff, dry				
		0.3					TP67 0.2-0.3	0.4	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.3 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP68

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,966.98
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,796.71
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP68 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, yellow / orange / brown mottled, heterogeneous, medium plasticity		TP68 0.2-0.3	0.2	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP69

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,997.7
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,004.46
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP69 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, brown, heterogeneous, low plasticity, very stiff, dry				
		0.3					TP69 0.3-0.4	0.9	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP70

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,007.94
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,073.7
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Gravelly CLAY - reworked natural, brown, heterogeneous, firm, stiff, dry		TP70 0.0-0.1	0.8	No Odour, Staining or Asbestos
		0.2							
		0.3							Refusal @ 0.3m
					Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP71

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 295,030.61
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,148.77
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Silty Clay, reworked natural, light brown, heterogeneous, firm, stiff, dry, inclusions of roots		TP71 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, light brown, heterogeneous, extremely firm / stiff, dry		TP71 0.2-0.3	0.9	No Odour, Staining or Asbestos
		0.3			Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP72

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,019.36
NORTHING 6,254,223.31
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Dark brown, heterogeneous, dry, firm, low plasticity with inclusions of some roots		TP72_0-0.1	0.9	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP73

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,897.73
NORTHING 6,253,806.95
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP73 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2		CL	CLAY, yellow / brown, heterogeneous, medium plasticity, inclusions of small gravel				
		0.3							
		0.4					TP73 0.4-0.5	0.8	No Odour, Staining or Asbestos
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP74

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,907.97
NORTHING 6,253,876.2
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP74 0.0-0.1	0	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, yellow / red / brown, heterogeneous, medium plasticity, soft, damp, inclusions of small gravels				
		0.3					TP74 0.2-0.3	0.9	No Odour, Staining or Asbestos
		0.4							
		0.5					TP74 0.4-0.5	0.9	No Odour, Staining or Asbestos
		0.6			Termination Depth at: 0.5 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP75

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,918.21
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,945.45
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP75 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / brown, heterogeneous, dry				
		0.3					TP75 0.2-0.3	0.6	No Odour, Staining or Asbestos
		0.4							
		0.5			Termination Depth at: 0.4 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP76

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,928.45
NORTHING 6,254,014.69
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP76 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / brown, heterogeneous, dry				
		0.3					TP76 0.3-0.4	0.9	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP77

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,938.69
NORTHING 6,254,083.94
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP77 0.0-0.1	0.3	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, orange / brown, heterogeneous, medium plasticity, damp				
		0.3					TP77 0.2-0.3	0.7	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				

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TEST PIT TP78

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,948.93
NORTHING 6,254,153.19
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, dry		TP78 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / grey, heterogeneous, medium plasticity, hard, dense, damp				
		0.3							
		0.4							
		0.5					TP78 0.5-0.6	0	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9					TP78 0.9-1.0	0.6	No Odour, Staining or Asbestos
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP79

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,931.35
NORTHING 6,254,228.14
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP79 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4		CL	CLAY, red / orange, heterogeneous, low to medium plasticity, hard, dense, damp				
		0.5					TP79 0.5-0.6	0	No Odour, Staining or Asbestos
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP80

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,828.49
NORTHING 6,253,817.19
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP80 0.0-0.1	1	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red / brown, heterogeneous, dry				
		0.3					TP80 0.2-0.3	0	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				

TEST PIT TP81

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,838.73
NORTHING 6,253,886.44
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP81 0.0-0.1	0.7	No Odour, Staining or Asbestos
		0.2		CH	CLAY, red / brown, heterogeneous, medium to high plasticity, dry, inclusions of small gravel				
		0.3					TP81 0.3-0.4	0.6	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP82

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,848.96
NORTHING 6,253,955.69
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, stiff, dry, inclusions of roots and rootlets		TP82 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2		CH-MH	Silty CLAY, red / brown, heterogeneous, medium to high plasticity, damp				
		0.3					TP82 0.2-0.3	0.3	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP83

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,859.2
NORTHING 6,254,024.93
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, dry		TP83 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		CH	CLAY, red / brown / grey mottled, heterogeneous, medium plasticity, inclusions of small rounded gravels				
		0.3					TP83 0.2-0.3	0.6	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP84

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,853.43
NORTHING 6,254,093.71
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY, heterogeneous, low plasticity, soft, damp, inclusions of bricks, tiles, gravels, concrete		TP84 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red, homogeneous, medium plasticity, hard, dense, damp				
		0.3							
		0.4							
		0.5					TP84 0.5-0.6	0	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8			Termination Depth at: 0.7 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP85

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,879.68
NORTHING 6,254,163.43
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, non to low plasticity, soft, dry		TP85 0.0-0.1	0.7	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4		CL	CLAY, red / orange, homogeneous, hard, dense, damp, inclusion of large tree roots				
		0.5					TP85 0.5-0.6	1	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1			Termination Depth at: 1.1 m.				
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP86

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,889.92
NORTHING 6,254,232.67
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, brown, heterogeneous, low plasticity, soft, damp		TP86 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4		CL	CLAY, deep red, homogeneous, low to medium plasticity, hard, damp				
		0.5					TP86 0.5-0.6	0.5	No Odour, Staining or Asbestos
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP87

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,759.24
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,827.43
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, inclusions of roots and rootlets		TP87 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, red / brown, heterogeneous, medium to high plasticity, damp				
		0.3					TP87 0.3-0.4	0	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP88

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,769.48
NORTHING 6,253,896.68
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, damp, inclusions of roots and rootlets		TP88 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, yellow / brown, heterogeneous, damp				
		0.3					TP88 0.2-0.3	0.1	No Odour, Staining or Asbestos
					Termination Depth at: 0.3 m.				

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TEST PIT TP89

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,779.72
NORTHING 6,253,965.93
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, stiff, dry, inclusions of roots and rootlets		TP89 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		CL-ML	Silty CLAY, red / brown / yellow mottled, heterogeneous, medium plasticity, dry				
		0.3					TP89 0.3-0.4	1	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP90

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,789.96
NORTHING 6,254,035.17
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - CLAY, reworked natural, red / brown, heterogeneous, inclusions of minor gravels, rootlets		TP90 0.0-0.1	0.1	No Odour, Staining or Asbestos. QA/QC 05
		0.2		CH	CLAY, red / brown mottled, heterogeneous, medium to high plasticity				
		0.3					TP90 0.3-0.4	0	No Odour, Staining or Asbestos
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP91

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,810.83
NORTHING 6,254,185.97
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, low plasticity, soft, dry to damp		TP91 0.0-0.1	0.5	No Odour, Staining or Asbestos
		0.2							
		0.3		CL	CLAY, red / grey mottled, heterogeneous, low to medium plasticity, hard, dense, damp				
		0.4							
		0.5					TP91 0.5-0.6	0.2	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP92

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,820.67
NORTHING 6,254,242.91
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft, dry to damp		TP92 0.0-0.1	0.8	No Odour, Staining or Asbestos
		0.2							
		0.3		CL	CLAY, red, homogeneous, medium plasticity, hard, dense, damp				
		0.4							
		0.5					TP92 0.5-0.6	1	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8			Termination Depth at: 0.7 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP93

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,689.99
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,837.67
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, loose, damp, inclusions of roots		TP93 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		CH-MH	Silty CLAY, orange mottled, heterogeneous, medium to high plasticity				
		0.3					TP93 0.3-0.4	0	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP94

PROJECT NUMBER 59884	**DRILLING COMPANY** JBS&G	**EASTING** 294,700.23
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,253,906.92
CLIENT Aliro	**DRILL RIG**	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Hand Auger	**COORD SOURCE** Map Approximation
	DIMENSIONS x m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, soft, inclusions of roots		TP94 0.0-0.1	0.8	No Odour, Staining or Asbestos
		0.2		CH	CLAY, red / brown mottled, heterogeneous, medium to high plasticity, damp				
		0.3					TP94 0.3-0.4	0.5	No Odour, Staining or Asbestos
		0.4			Termination Depth at: 0.4 m.				
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP95

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 17-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 294,710.47
NORTHING 6,253,976.16
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		Fill	Fill - Silty CLAY, dark brown, heterogeneous, low plasticity, stiff, dry, inclusions of roots		TP95 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		CH-MH	Silty CLAY, yellow / brown / white mottled, heterogeneous, medium to high plasticity, moist				
		0.3							
		0.4					TP95 0.4-0.5	1	No Odour, Staining or Asbestos
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP96

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,718.65
NORTHING 6,254,038.27
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, red / orange, heterogeneous, low plasticity, soft, dry to damp		TP96 0.0-0.1	0.8	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5		CL	CLAY, red, heterogeneous, medium plasticity, hard, dense, damp		TP96 0.5-0.6	0.9	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP98

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,702.14
NORTHING 6,254,067.77
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft to firm, damp		TP98 0.0-0.1	0.4	No Odour, Staining or Asbestos
		0.2							
		0.3							
		0.4							
		0.5		RWN	Fill - Silty CLAY, reworked natural, dark brown / grey, heterogeneous, non to low plasticity, soft, wet		TP98 0.5-0.6	0	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8		CH	CLAY, red, homogeneous, medium to high plasticity, hard, dense, damp				
		0.9							
		1					TP98 1.0-1.1	0.4	No Odour, Staining or Asbestos
		1.1							
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP99

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,705.39
NORTHING 6,254,118.44
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft, dry to damp		TP99 0.0-0.1	0	No Odour, Staining or Asbestos
		0.4 0.5 0.6 0.7 0.8		CL	CLAY, red, homogeneous, medium plasticity, hard, dense, damp		TP99 0.5-0.6	0.4	No Odour, Staining or Asbestos
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 0.8 m.				

TEST PIT TP100

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 294,715.63
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,187.69
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft, dry to damp		TP100 0.0-0.1	0.2	No Odour, Staining or Asbestos
		0.2							
		0.3		CL	CLAY, red, homogeneous, medium plasticity, hard, dense, damp				
		0.4							
		0.5					TP100 0.5-0.6	0.9	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8			Termination Depth at: 0.8 m.				
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP100A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,407.27
NORTHING 6,254,101.28
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, firm, low plasticity with inclusions of trace roots		TP100A_0-0.1	0.2	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				

TEST PIT TP101

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,725.6
NORTHING 6,254,258.66
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft, dry to damp		TP101 0.0-0.1	0.5	No Odour, Staining or Asbestos
		0.2		CL	CLAY, red, homogeneous, medium plasticity, hard, dense, damp				
		0.3							
		0.4							
		0.5					TP101 0.5-0.6	0.6	No Odour, Staining or Asbestos
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP102

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,183.52
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** 6,254,068.26
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Orange - brown, heterogeneous, damp, hard, firm, low - medium plasticity				
		0.2					TP102_0.2-0.3	0.3	No Odour, Staining or Asbestos observed.
		0.3							
		0.4							
		0.5							
		0.6		RWN	Fill - Re-Worked Natural - Silty CLAY - Dark brown, heterogeneous, damp - wet, soft, firm, low - medium plasticity				
		0.7					TP102_0.7-0.8	0.7	No Odour, Staining or Asbestos observed.
		0.8							
		0.9							
		1		CH	CLAY - Dark grey, homogeneous, damp, hard, dense, medium - high plasticity				
		1.1							No Odour, Staining or Asbestos observed.
		1.2					TP102_1.2-1.3	0.8	
		1.3							
		1.4							
		1.5			Termination Depth at: 1.4 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP103

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,197.02
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 18-Nov-20	**NORTHING** 6,254,073.65
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Orange - brown, heterogeneous, damp, hard, firm, low - medium plasticity				
		0.2					TP103_0.2-0.3	0.3	No Odour, Staining or Asbestos observed.
		0.3							
		0.4		RWN	Fill - Re-Worked Natural - Silty CLAY - Dark brown, heterogeneous, damp - wet, soft, firm, low - medium plasticity				
		0.5							
		0.6							
		0.7					TP103_0.7-0.8	1	No Odour, Staining or Asbestos observed.
		0.8							
		0.9							
		1		CH	CLAY - Dark grey, homogeneous, damp, hard, dense, medium - high plasticity				
		1.1							
		1.2					TP103_1.2-1.3	0.3	No Odour, Staining or Asbestos observed.
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP104

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,202.37
NORTHING 6,254,063.01
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Dark brown, heterogeneous, damp, soft, non - plastic - low plasticity		TP104_0-0.1	0.3	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Red, homogeneous, damp, hard, firm, low - medium plasticity				
		0.3					TP104_0.3-0.4	0.3	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP105

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,105.41
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 16-Nov-20	**NORTHING** 6,253,797.32
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, grey / brown, heterogeneous, inclusions of plastic, tile, bitumen, sandstone, slag / charcoal, wire, metal pipe		TP105 0.0-1.0		10L AQ Visible ACM observed (0.0216 % w/w ACM)
		0.2					TP105 0.2-0.3	0.7	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP105 0.6-0.7	0.2	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, orange / brown, heterogeneous, low to medium plasticity, hard, dry		TP105 1.0-1.1	0.2	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3							
		1.4			Termination Depth at: 1.4 m.				
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP105A

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,104.18
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 16-Nov-20	**NORTHING** 6,253,809.68
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1		Fill	Fill - Clayey Silty SAND, pale brown / white, heterogeneous, inclusions of sandstone, clay casts, tile, concrete		TP105A 0.0-1.0		10L AQNo visible ACM observed
							TP105A 0.4-0.5	0.4	No Odour, Staining or Asbestos
		1 1.1 1.2 1.3 1.4		CL-ML	Silty CLAY, orange / brown, heterogeneous, medium plasticity, damp		TP105A 1.3-1.4	0.3	No Odour, Staining or Asbestos
		1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.4 m.				

TEST PIT TP106

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,107.49
NORTHING 6,253,833.96
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Clayey SILT, brown, heterogeneous, inclusions of metal pipe, star post, plastic, gravel, brick, tile, concrete		TP106 0.0-1.0		10L AQ Visible ACM observed (0.0366 % w/w ACM)
		0.2					TP106 0.2-0.3	0.2	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP106 0.6-0.7	1	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, brown / orange, heterogeneous, low to medium plasticity, hard, dry				
		1.1							
		1.2					TP106 1.2-1.3	0.2	No Odour, Staining or Asbestos
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP106A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,105.8
NORTHING 6,253,820.84
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, grey / brown, heterogeneous, inclusions of plastic, sandstone, concrete, tile, insulation, terracotta		TP106A 0.0-1.0		10L AQ Visible ACM observed (0.0383 % w/w ACM)
		0.2					TP106A 0.2-0.3	0	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP106A 0.6-0.7	0.4	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, orange / brown, heterogeneous, low to medium plasticity, hard, dry		TP106A 1.0-1.1	0.1	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP107

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,102.28
NORTHING 6,253,843.38
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Clayey Silty SAND, pale brown / white, heterogeneous, inclusions of sandstone, igneous rock, ash		TP107 0.0-1.0		10L AQNo visible ACM observed
		0.2					TP107 0.2-0.3	0.5	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP107 0.6-0.7	0.2	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, brown / orange / red, heterogeneous, medium plasticity, hard		TP107 1.0-1.1	0.9	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3							
		1.4					TP107 1.4-1.5	0.1	No Odour, Staining or Asbestos
		1.5			Termination Depth at: 1.5 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP108

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,099.54
NORTHING 6,253,851.05
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, inclusions of slag, concrete, metal, sandstone, shale		TP108 0.0-1.0		10L AQNo visible ACM observed
							TP108 0.2-0.3	0.6	No Odour, Staining or Asbestos
							TP108 0.6-0.7	0.8	No Odour, Staining or Asbestos
		1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.0 m.				

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TEST PIT TP108A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,094.85
NORTHING 6,253,844.71
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Clayey Silt, brown, heterogeneous, inclusions of tile, fabric, metal, concrete, brick, plastic		TP108A 0.0-0.9		10L AQ Visible ACM observed (0.0133 % w/w ACM)
		0.2					TP108A 0.2-0.3	0.7	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP108A 0.6-0.7	0.3	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9		CL-ML	Silty CLAY, yellow / brown, heterogeneous, medium plasticity, hard, damp		TP108A 0.9-1.0	0.9	No Odour, Staining or Asbestos
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP109

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,103.74
NORTHING 6,253,856.72
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, inclusions of clay pipe, concrete slabs, shale, bitumen, plastic		TP109 0.0-1.0		10L AQ Visible ACM observed (0.0133 % w/w ACM) QAQC_03 taken at 10L AQ
		0.2					TP109 0.2-0.3	0.8	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							No Odour, Staining or Asbestos
		0.6					TP109 0.6-0.7	1	QAQC_04 taken at TP109_0.6-0.7
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, yellow / brown, heterogeneous, medium plasticity, hard, damp				
		1.1							
		1.2					TP109 1.2-1.3	0.1	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5							
		1.6			Termination Depth at: 1.5 m.				
		1.7							
		1.8							
		1.9							
		2							
		2.1							

TEST PIT TP110

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,090.31
NORTHING 6,253,870.41
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, inclusions of shale, concrete, charcoal, plastic, metal, bitumen		TP110 0.0-1.0		10L AQNo visible ACM observed
		0.2					TP110 0.2-0.3	0.7	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP110 0.6-0.7	0.7	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, yellow / brown, heterogeneous, medium plasticity, hard, damp				
		1.1							
		1.2							
		1.3							
		1.4					TP110 1.4-1.5	0.2	No Odour, Staining or Asbestos
		1.5			Termination Depth at: 1.5 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP111

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,102.8
NORTHING 6,253,869.35
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, light brown / brown, heterogeneous, inclusions of sandstone, gravel, metal pipe, brick, bitumen, glass, yellow pvc pipe, shale		TP111 0.0-1.0		10L AQNo visible ACM observed
		0.2					TP111 0.2-0.3	0.1	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6							Visible ACM conduit observed 10x30cm, No Staining or odour
		0.7					TP111 0.6-0.7	0.9	
		0.8							
		0.9		CL-ML	Silty CLAY, brown / red, heterogeneous, medium plasticity, hard, damp				
		1					TP111 1.0-1.1	1	No Odour, Staining or Asbestos
		1.1							
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP112

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,107.75
NORTHING 6,253,862.81
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Clayey Silty SAND, pale brown / white, heterogeneous, inclusions of stiff clay clasts, gravels and sandstone, ash		TP112 0.0-0.6		10L AQNo visible ACM observed
		0.2					TP112 0.2-0.3	1	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, inclusions of brick, sandstone, bitumen		TP112 0.6-0.7	0.5	No Odour, Staining or Asbestos
		0.7					TP112 0.6-1.0		10L AQNo visible ACM observed
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, orange / brown, heterogeneous, medium plasticity, damp		TP112 1.0-1.1	0.5	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3							
		1.4			Termination Depth at: 1.4 m.				
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP113

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,108.56
NORTHING 6,253,829.96
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, light brown, heterogeneous, inclusions of pvc pipe, sandstone, concrete boulders, brick, pipe		TP113 0.0-1.0		10L AQNo visible ACM observed
		0.2					TP113 0.2-0.3	0.3	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP113 0.6-0.7	0.6	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, orange / brown, heterogeneous, medium plasticity, hard, damp		TP113 1.0-1.1	0.9	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP114

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,110.94
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 16-Nov-20	**NORTHING** 6,253,829.45
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly Silty CLAY, brown, heterogeneous, damp, inclusions of small bitumen gravel		TP114 0.0-1.0		10L AQNo visible ACM observed
		0.2					TP114 0.2-0.3	0.2	No Odour, Staining or Asbestos
		0.3							
		0.4							
		0.5							
		0.6					TP114 0.6-0.7	0.9	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, orange / brown, heterogeneous, medium plasticity, damp, inclusions of roots				
		1.1							
		1.2							
		1.3							
		1.4			Termination Depth at: 1.4 m.				
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP115

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,111.07
NORTHING 6,253,817.77
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Gravelly SILT, grey / brown, heterogeneous, inclusions of sandstone, metal pipe, plastic conduit and terracotta pipe fragments		TP115 0.0-1.0		10L AQ No visible ACM observed.QA/QC_01
		0.2					TP115 0.2-0.3	0.1	No Odour, Staining or Asbestos.QA/QC_02
		0.3							
		0.4							
		0.5							
		0.6					TP115 0.6-0.7	1	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1		CL-ML	Silty CLAY, brown / orange, medium plasticity, soft				
		1.1					TP115 1.1-1.2	0.4	No Odour, Staining or Asbestos
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP116

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,109.09
NORTHING 6,253,804.42
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1		Fill	Fill - Gravelly CLAY, brown, heterogeneous, inclusions of concrete, asphalt, bitumen, clay pipe, bricks, plastic, glass		TP116 0.0-1.0		10L AQ No visible ACM observed
							TP116 0.5-0.6	0.1	No Odour, Staining or Asbestos
							TP116 0.9-1.0	0	No Odour, Staining or Asbestos
		1 1.1 1.2		CL-ML	Silty CLAY, light yellow / brown				
							TP116 1.1-1.2	1	No Odour, Staining or Asbestos
		1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.2 m.				

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TEST PIT TP117

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,830.34
NORTHING 6,254,136.99
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, low plasticity, soft, dry to damp		TP117 0.0-0.1	0.1	No Odour, Staining or Asbestos
		0.2							
		0.3		CL	CLAY, dark red, homogeneous, medium plasticity, hard, dense, damp				
		0.4							
		0.5					TP117 0.5-0.6	0.7	No Odour, Staining or Asbestos
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP118

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,842.92
NORTHING 6,254,063.53
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - brown, heterogeneous, soft, damp, low plasticity, inclusions of roots and rootlets		TP118 0.0-0.1	0.9	No Odour, Staining or Asbestos
		0.2		Fill	Fill - Silty CLAY - yellow / brown, heterogeneous, firm, low to medium plasticity				
		0.3							
		0.4					TP118 0.4-0.5	0.9	No Odour, Staining or Asbestos
		0.5							
		0.6		Fill	Fill - Silty CLAY - brown, heterogeneous, firm, low to medium plasticity		TP118 0.6-0.7	0.9	No Odour, Staining or Asbestos
		0.7		CL	CLAY, red, homogeneous, hard, damp, medium plasticity				
		0.8							
		0.9							
		1							
		1.1							
		1.2					TP118 1.2-1.3	0.2	No Odour, Staining or Asbestos
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP119

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,806.62
NORTHING 6,254,067.03
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - brown, heterogeneous, soft, damp, low plasticity, inclusions of roots and rootlets		TP119 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		Fill	Fill - Silty CLAY - light brown, heterogeneous, soft, damp, low plasticity				
		0.3		Fill	Fill - Silty CLAY - dark brown, heterogeneous, firm, wet, low plasticity				
		0.4					TP119 0.4-0.5	0.8	No Odour, Staining or Asbestos
		0.5							
		0.6					TP119 0.6-0.7	0.6	No Odour, Staining or Asbestos
		0.7							
		0.8							
		0.9							
		1							
		1.1		CL	Silty CLAY, red, homogeneous, dry, hard, low to medium plasticity				
		1.2					TP119 1.2-1.3	0.1	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5			Termination Depth at: 1.5 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP120

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,779.54
NORTHING 6,254,091.99
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - brown, heterogeneous, soft, damp, low plasticity, inclusions of roots and rootlets		TP120 0.0-0.1	0.6	No Odour, Staining or Asbestos
		0.2		RWN	Fill - Silty CLAY - reworked natural, dark brown, heterogeneous, firm, wet, low plasticity				
		0.3							
		0.4							
		0.5					TP120 0.5-0.0	0.7	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8		CL	Silty CLAY, red / brown, homogeneous, hard, damp / wet, medium plasticity				
		0.9							
		1							
		1.1					TP120 1.0-1.1	0.2	No Odour, Staining or Asbestos
		1.2			Termination Depth at: 1.2 m.				
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP121

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,770.69
NORTHING 6,254,124.36
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - brown, heterogeneous, soft, damp, low plasticity, inclusions of roots and rootlets		TP121 0.0-0.1	1	No Odour, Staining or Asbestos
		0.2		RWN	Fill - Silty CLAY - reworked natural, dark brown, heterogeneous, firm, wet, low plasticity				
		0.3							
		0.4							
		0.5					TP121 0.5-0.6	0.6	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9		CL	Silty CLAY, red / brown, homogeneous, hard, damp / wet, medium plasticity				
		1					TP121 1.0-1.1	1	No Odour, Staining or Asbestos
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP122

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,777.66
NORTHING 6,254,159.86
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - brown, heterogeneous, soft, damp, low plasticity, inclusions of roots and rootlets		TP122 0.0-0.1	0.1	No Odour, Staining or Asbestos
				RWN	Fill - Silty CLAY - reworked natural, dark brown, heterogeneous, firm, wet, low plasticity				
		0.5					TP122 0.5-0.6	0.2	No Odour, Staining or Asbestos
		0.9		CL	Silty CLAY, red / brown, homogeneous, hard, damp / wet, medium plasticity		TP122 1.0-1.1	0.3	No Odour, Staining or Asbestos
		1.3			Termination Depth at: 1.3 m.				

TEST PIT TP123

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,978.11
NORTHING 6,253,946.15
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3		Fill	Fill - Silty CLAY - red / orange, heterogeneous, mottled, hard, damp, low to medium plasticity				
		0.4 0.5 0.6 0.7 0.8 0.9 1		Fill	Fill - Clayey SILT - light brown / brown, heterogeneous, soft, damp, non-plastic to low plasticity		TP123 0.4-0.5	0.3	No Odour, Staining or Asbestos
							TP123 0.6-0.7	1	No Odour, Staining or Asbestos
		1.1 1.2 1.3 1.4 1.5		CL-ML	Silty CLAY, red /grey, mottled, damp, hard, low plasticity		TP123 1.2-1.3	0.9	No Odour, Staining or Asbestos
		1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.5 m.				

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TEST PIT TP124

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,974.72
NORTHING 6,253,902.53
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9		RWN	Fill - Silty CLAY - reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				
							TP124 0.4-0.5	0	No Odour, Staining or Asbestos
				CL-ML	Silty CLAY, orange / brown, heterogeneous, damp, hard, low to medium plasticity		TP124 1.0-1.1	0.9	No Odour, Staining or Asbestos
		1 1.1 1.2							
		1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.2 m.				

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TEST PIT TP124A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING N/A
NORTHING N/A
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty CLAY - reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				
		0.2					TP124A 0.2-0.3	0	No Odour, Staining or Asbestos
		0.3		CL-ML	Silty CLAY, orange / brown, heterogeneous, damp, hard, low to medium plasticity				
		0.4					TP124A 0.4-0.5	0.7	No Odour, Staining or Asbestos
		0.5							
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP125

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 294,985.33
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 16-Nov-20	**NORTHING** 6,253,864.03
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1		RWN	Fill - Silty CLAY - reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				
							TP125 0.4-0.5	0.2	No Odour, Staining or Asbestos
		1.1 1.2 1.3		CL-ML	Silty CLAY, orange / brown, heterogeneous, damp, hard, low to medium plasticity		TP125 1.2-1.3	1	No Odour, Staining or Asbestos
		1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.3 m.				

TEST PIT TP126

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,034.83
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 16-Nov-20	**NORTHING** 6,253,857.19
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8		RWN	Fill - Silty Clay, reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				
							TP126 0.4-0.5	0.5	No Odour, Staining or Asbestos
		0.9 1 1.1 1.2 1.3 1.4		CL-ML	Silty Clay, orange / brown, heterogeneous, damp, hard, low to medium plasticity		TP126 1.2-1.3	0.3	No Odour, Staining or Asbestos
		1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.4 m.				

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TEST PIT TP127

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,080.58
NORTHING 6,253,877.12
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 0.9 1 1.1 1.2		Fill	Fill - Silty Clay, dark brown, heterogeneous, soft, damp, low plasticity				
							TP127 0.4-0.5	0.1	No Odour, Staining or Asbestos
		1.2 1.3 1.4		CL-ML	Silty Clay, brown / orange: heterogeneous, damp, hard, low to medium plasticity		TP127 1.2-1.3	0.6	No Odour, Staining or Asbestos
		1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.4 m.				

TEST PIT TP128

PROJECT NUMBER 59884	**DRILLING COMPANY** Ken Coles	**EASTING** 295,092.51
PROJECT NAME Kemps Creek DSI	**DRILLING DATE** 17-Nov-20	**NORTHING** 6,254,236.69
CLIENT Aliro	**DRILL RIG** Bucket Excavation	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW	**DRILLING METHOD** Test Pit	**COORD SOURCE** Map Approximation
	DIMENSIONS 2 x 0.5 m	**LOGGED BY** EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY, brown, heterogeneous, non to low plasticity, soft, dry, inclusions of concrete, brick, glass, gravel, metal, plastic, rubbish		TP128 0.0-0.1	0.7	No Odour, Staining or Asbestos
		0.2					TP128 0.0-1.0		10L AQVisible ACM observedTP128_Frag (0.010 %w/w ACM)QAQC_03 taken at 10L AQ 0-0.1
		0.3							
		0.4							
		0.5					TP128 0.5-0.6	0.1	No Odour, Staining or Asbestos
		0.6							
		0.7							
		0.8							
		0.9							
		1		CL	CLAY, red, homogeneous, low plasticity, stiff, dry				
		1.1							
		1.2					TP128 1.2-1.3	0.4	No Odour, Staining or Asbestos
		1.3							
		1.4							
		1.5			Termination Depth at: 1.4 m.				
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP128A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,075.28
NORTHING 6,253,923.14
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				No Odour, Staining or Asbestos
		0.2		CL-ML	Silty Clay, orange / brown, heterogeneous, damp, hard, low to medium plasticity				
		0.3							
		0.4					TP128 0.4-0.5	0.1	No Odour, Staining or Asbestos
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP129

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,923.34
NORTHING 6,254,255.24
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4 0.5		Fill	Fill - Silty CLAY, brown, heterogeneous, low plasticity, soft, damp, inclusions of gravels		TP129 0.0-0.1	0.3	No Odour, Staining or Asbestos
							TP129 0.0-0.6		10L AQNo visible ACM observed
							TP129 0.5-0.6	0.8	No Odour, Staining or Asbestos
		0.6 0.7 0.8 0.9		CL	CLAY, red / grey mottled, heterogeneous, low to medium plasticity, stiff, dry, inclusion of shales				
							TP129 0.9-1.0	0	No Odour, Staining or Asbestos
		1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 1.0 m.				

TEST PIT TP129A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 16-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,016.44
NORTHING 6,253,952.28
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Silty Clay, reworked natural, light brown, heterogeneous, soft, dry, medium plasticity				
		0.2					TP129 0.2-0.3	0.8	No Odour, Staining or Asbestos
		0.3							
		0.4		CL-ML	Silty Clay, orange / brown, heterogeneous, damp, hard, low to medium plasticity				
		0.5							No Odour, Staining or Asbestos
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP130

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,003.72
NORTHING 6,254,218.97
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY CK

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1			Fill - Black, malleable semi-solid (Hydrocarbon - base of leching drum)				Metal drum leaching into underlying natural (atop sheet metal). Sample 'Drum 1' collected.
		0.2		CL-ML	Silty CLAY - Red-brown, heterogeneous, damp, stiff, hard with inclusions of hydrocarbon veins infiltrating through cracks.		TP130_0.2-0.3	0.1	
		0.3			As above, grades to red - brown at 0.3mbgs				
		0.4							
		0.5					TP130_0.5-0.6	0.8	Grey staining observedat 0.5m bgs
		0.6							
		0.7		CL-ML	Silty CLAY - Light brown, heterogeneous, dry -damp, stiff, hard, low plasticity		TP130_0.7-0.8	0.8	Minor Staining, No Odour or Asbestos observed.
		0.8							
		0.9					TP130_0.9-1	0.6	No Odour, Staining or Asbestos observed at 0.1 m
		1							
		1.1							
		1.2							
		1.3			Termination Depth at: 1.3 m.				
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP131

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,975.74
NORTHING 6,254,251.34
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - SAND - Yellow, homogeneous, dry - damp, poorly graded, fine grained		TP131_0-0.1	0.1	10L AQNo visible ACM observed
		0.2		Fill	Fill - Silty CLAY - Brown, heterogeneous, dry, soft, non-plastic with inclusions of gravels				
		0.3					TP131_0.2-0.3	0.4	10L AQ No visible ACM. No Odour or Staining
		0.4		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.5					TP131_0.5-0.6	0.4	No Odour, Staining or Asbestos observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP131A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,979.2
NORTHING 6,254,255.89
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets/ roadbase		TP131A_0-0.1	0.5	No Odour, Staining or Asbestos observed.
		0.2			As above, increase in road base inclusions		TP131A_0-0.4	0.1	10L AQNo visible ACM observed
		0.3							
		0.4		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.5					TP131A_0.5-0.6	0.5	No Odour, Staining or Asbestos observed.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP132

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY JBS&G
DRILLING DATE 19-Nov-20
DRILL RIG
DRILLING METHOD Hand Auger
DIMENSIONS x m

EASTING 295,001.62
NORTHING 6,254,195.49
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY JZ

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
HA		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry, soft, low plasticity with inclusions of roots		TP132_0-0.1	0.8	No Odour, Staining or Asbestos observed.
		0.2			Termination Depth at: 0.2 m.				
		0.3							
		0.4							
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP133

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,068.18
NORTHING 6,254,236.36
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry - damp, soft, low plasticity		TP133_0-0.1	0.5	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Silty CLAY - Orange -red - grey, heterogeneous, mottled, damp, firm -stiff, hard, low plasticity				
		0.3							
		0.4							
		0.5					TP133_0.5-0.6	0.3	No Odour, Staining or Asbestos observed.
		0.6			Termination Depth at: 0.6 m.				
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP134

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,043.25
NORTHING 6,254,240.39
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, dry - damp, soft, low plasticity		TP134_0-0.1	1	No Odour, Staining or Asbestos observed.
		0.2		CL	Silty CLAY - Orange -red - grey, heterogeneous, mottled, damp, firm -stiff, hard, low plasticity				
		0.3							
		0.4							
		0.5					TP134_0.5-0.6	0.5	No Odour, Staining or Asbestos observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP135

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,024.55
NORTHING 6,254,243.82
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, damp, soft - firm, low plasticity		TP135_0-0.1	0.3	No Odour, Staining or Asbestos observed.
		0.2		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown - orange, heterogeneous, damp, firm, low - medium plasticity		TP135_0.2-0.3	0	No Odour, Staining or Asbestos observed.
		0.4		CL	Clay - Natural Silty CLAY - Orange -grey - brown, heterogeneous, dry - damp, firm -stiff, low plasticity		TP135_0.5-0.6	0.8	No Odour, Staining or Asbestos observed.
		0.5							
		0.6							
		0.7							
		0.8							
		0.9							
		1			Termination Depth at: 1.0 m.				
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP136

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,019.52
NORTHING 6,254,235.18
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, damp, soft - firm, low plasticity		TP136_0-0.1	0.7	No Odour, Staining or Asbestos observed.
		0.2		RWN	Fill - Re-Worked Natural - Silty CLAY - Orange - grey - brown, heterogeneous, damp, firm, low - medium plasticity		TP136_0.2-0.3	0	No Odour, Staining or Asbestos observed.
		0.3							
		0.4		CL	CLAY - Red, homogeneous, damp, firm, dense, medium plasticity				
		0.5					TP136_0.5-0.6	1	No Odour, Staining or Asbestos observed.
		0.6							
		0.7							
		0.8							
		0.9			Termination Depth at: 0.9 m.				
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP137

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,058.72
NORTHING 6,254,231.21
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		RWN	Fill - Re-Worked Natural - Silty CLAY - Brown, heterogeneous, damp - wet, soft, low plasticity		TP137_0-0.1	0.1	No Odour, Staining or Asbestos observed.
		0.2		CL	CLAY - Orange - brown, homogeneous, damp, hard, stiff, low - medium plasticity		TP137_0.2-0.3	0.8	No Odour, Staining or Asbestos observed.
		0.3							
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP138

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,990.32
NORTHING 6,254,248.67
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of large tree roots and rootlets		TP138_0-0.1	0.3	
							TP138_0-0.2	0.9	10L AQNo visible ACM observed
		0.2		CL	CLAY - Orange - red, homogeneous, damp, hard, dense, medium plasticity				
		0.3					TP138_0.3-0.4	0.8	No Odour, Staining or Asbestos observed.
		0.4							
		0.5			Termination Depth at: 0.5 m.				
		0.6							
		0.7							
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP138A

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 18-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 295,002.49
NORTHING 6,254,242.36
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1		Fill	Fill - Silty CLAY - Brown, heterogeneous, damp, soft, non-plastic-low plasticity, with inclusions of roots and rootlets		TP138A_0-0.1	0.3	10L AQNo visible ACM observed
		0.2					TP138A_0-0.4	0.9	
		0.3							
		0.4		CL	CLAY - Red, homogeneous, damp, hard, dense, medium plasticity				
		0.5					TP138A_0.5-0.6	0.7	No Odour, Staining or Asbestos observed.
		0.6							
		0.7			Termination Depth at: 0.7 m.				
		0.8							
		0.9							
		1							
		1.1							
		1.2							
		1.3							
		1.4							
		1.5							
		1.6							
		1.7							
		1.8							
		1.9							
		2							
		2.1							

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TEST PIT TP197

PROJECT NUMBER 59884
PROJECT NAME Kemps Creek DSI
CLIENT Aliro
ADDRESS 706-752 Mamre Road, Kemps Creek, NSW

DRILLING COMPANY Ken Coles
DRILLING DATE 17-Nov-20
DRILL RIG Bucket Excavation
DRILLING METHOD Test Pit
DIMENSIONS 2 x 0.5 m

EASTING 294,704.16
NORTHING 6,254,050.26
COORD SYS GDA94_MGA_zone_56
COORD SOURCE Map Approximation
LOGGED BY EP

COMMENTS

Drilling Method	Water (m bgl)	Depth (m bgl)	Graphic Log	Lithological Class	Lithological Description	Moisture	Samples	PID	Additional Observations
Test Pit		0.1 0.2 0.3 0.4		RWN	Fill - Silty CLAY, reworked natural, brown, heterogeneous, non to low plasticity, soft, damp		TP197 0.0-0.1	0	No Odour, Staining or Asbestos
		0.5 0.6 0.7 0.8		CL-ML	Silty CLAY, brown / grey, heterogeneous, non plastic, soft, wet		TP197 0.5-0.6	0.4	No Odour, Staining or Asbestos
		0.9 1 1.1 1.2 1.3 1.4 1.5 1.6 1.7 1.8 1.9 2 2.1			Termination Depth at: 0.8 m.				

TEST PIT TP02

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, moist, high plasticity, very soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP03

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown/orange, heterogeneous, moist, high plasticity, very soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP04

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - silty CLAY, brown/orange, heterogeneous, moist, high plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP05

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, moist, high plasticity, very soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP06

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey sandy SILT, dark brown, heterogeneous, damp, medium plasticity, soft, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP07

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown/red, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP08

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP09

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP11

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, moist, high plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP12

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, moist, medium plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP13

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, moist, high plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP14

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, moist, high plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP15

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP16

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown/orange, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP17

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, damp, medium plasticity, firm, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP18

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP20

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - silty CLAY, brown/orange, heterogeneous, moist, high plasticity, soft, Trace inclusions of rootlets	DP	No odours, staining or asbestos. QA/QC20250825_P03 collected at 0-0.1.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP21

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown/orange, heterogeneous, damp, medium plasticity, soft, Trace inclusions of rootlets	DP	No odours, staining or asbestos. QA/QC20250825_P05 collected at 0-0.1.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP22

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, dark brown, heterogeneous, damp, medium plasticity, soft, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP23

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - clayey SILT, brown, heterogeneous, damp, high plasticity, soft, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP24

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - silty CLAY, dark brown/orange, heterogeneous, damp, medium plasticity, firm, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP25

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP26

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP27

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - silty CLAY, orange/brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP28

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, high plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos. QA/QC20250825_P02 collected at 0-0.1.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP29

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05 0.1		Fill - silty CLAY, brown/orange, heterogeneous, moist, high plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos. QA/QC20250825_P04 collected at 0-0.1.
	0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP30

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown/orange, heterogeneous, damp, medium plasticity, soft, Trace inclusions of rootlets	DP	No odours, staining or asbestos. QA/QC20250825_P01 collected at 0-0.1.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP31

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05 0.1		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

TEST PIT TP32

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05 0.1		Fill - silty CLAY, brown/orange, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.15 0.2 0.25 0.3 0.35 0.4 0.45 0.5 0.55 0.6 0.65 0.7 0.75 0.8 0.85 0.9 0.95		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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TEST PIT TP33

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP34

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, damp, medium plasticity, soft, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP35

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP36

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, dark brown, heterogeneous, moist, medium plasticity, soft, Trace inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP233

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown, heterogeneous, damp, low plasticity, firm, 10% inclusions of rootlets	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP234

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown/orange, heterogeneous, damp, high plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP235

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey sandy SILT, brown, heterogeneous, damp, medium plasticity, firm, 20% inclusions of sandstone cobbles/ gravels.	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP236

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown, heterogeneous, moist, high plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP237

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown/orange, heterogeneous, moist, high plasticity, soft, 10% inclusions of rootlets	M	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP238

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - silty CLAY, brown/orange, heterogeneous, damp, medium plasticity, firm, Trace sandstone gravels and rootlets	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP239

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 26 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.05		Fill - clayey SILT, brown, heterogeneous, damp, medium plasticity, firm, Trace inclusions of rootlets	DP	No odours, staining or asbestos.
	0.1		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.
	0.15				
	0.2				
	0.25				
	0.3				
	0.35				
	0.4				
	0.45				
	0.5				
	0.55				
	0.6				
	0.65				
	0.7				
	0.75				
	0.8				
	0.85				
	0.9				
	0.95				

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TEST PIT TP240

PROJECT NUMBER 70548	**DRILLING COMPANY**	**EASTING**
PROJECT NAME Mamre Road Kemps Creek	**PLANT TYPE**	**NORTHING**
CLIENT Plan Project Management	**METHOD** Hand Excavation (shovel)	**COORD SYS** GDA94_MGA_zone_56
ADDRESS 706-752 Mamre Road	**TP LENGTH (m)** m	**TOTAL DEPTH** 0.10 m bgl
DRILLING DATE 25 Aug 2025	**TP WIDTH (m)** m	**LOGGED BY** AC

COMMENTS

Drilling Method	Depth (m bgl)	Graphic Log	Lithological Description	Moisture	Additional Observations
HE	0.01 0.02 0.03 0.04 0.05 0.06 0.07 0.08 0.09 0.1		Fill - silty CLAY, brown/orange, heterogeneous, damp, medium plasticity, firm, Trace rootlets	DP	No odours, staining or asbestos.
	0.11 0.12 0.13 0.14 0.15 0.16 0.17 0.18 0.19		Termination Depth at: 0.10 m bgl		End of Hole at 0.1 m bgs. Programmed Depth.

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Appendix L Detailed Laboratory Certificates

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757581-W-V2**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**SW01**	**SW02**	**SW03**	**SW04**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-No30641**	**S20-No30642**	**S20-No30643**	**S20-No30644**
Date Sampled			**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	< 0.00001	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	82	70	76	79
p-Terphenyl-d14 (surr.)	1	%	68	59	97	61
Ammonia (as N)	0.01	mg/L	0.65	0.03	0.02	0.05
Nitrate & Nitrite (as N)	0.05	mg/L	0.35	< 0.05	< 0.05	< 0.05
Nitrate (as N)	0.02	mg/L	0.34	< 0.02	< 0.02	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	< 0.02	< 0.02
pH (at 25 °C)	0.1	pH Units	7.5	7.1	9.0	7.8
Total Suspended Solids Dried at 103–105°C	5	mg/L	35	11	7.4	< 5
Heavy Metals						
Arsenic	0.001	mg/L	0.002	< 0.001	< 0.001	0.001
Cadmium	0.0002	mg/L	0.0003	0.0003	< 0.0002	< 0.0002
Chromium	0.001	mg/L	0.002	< 0.001	< 0.001	0.001
Copper	0.001	mg/L	0.15	0.13	0.006	0.008
Lead	0.001	mg/L	0.006	0.003	< 0.001	0.008
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	< 0.0001	< 0.0001
Nickel	0.001	mg/L	0.017	0.016	< 0.001	0.002
Zinc	0.005	mg/L	0.13	0.11	< 0.005	0.035

Client Sample ID			SW05	Rinsate	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-No30645	S20-No30646	S20-No30647	S20-No30648
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons (Trace level)						
Acenaphthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Acenaphthylene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benz(a)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(a)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Chrysene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluoranthene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Fluorene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Naphthalene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Phenanthrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Pyrene	0.00001	mg/L	< 0.00001	< 0.00001	-	-
Total PAH*	0.00001	mg/L	< 0.00001	< 0.00001	-	-
2-Fluorobiphenyl (surr.)	1	%	129	64	-	-
p-Terphenyl-d14 (surr.)	1	%	126	54	-	-
Ammonia (as N)	0.01	mg/L	0.06	< 0.01	-	-
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05	< 0.05	-	-
Nitrate (as N)	0.02	mg/L	0.03	< 0.02	-	-
Nitrite (as N)	0.02	mg/L	< 0.02	< 0.02	-	-
pH (at 25 °C)	0.1	pH Units	7.9	5.5	-	-
Total Suspended Solids Dried at 103–105°C	5	mg/L	6.6	< 5	-	-
Heavy Metals						
Arsenic	0.001	mg/L	< 0.001	< 0.001	-	-
Cadmium	0.0002	mg/L	< 0.0002	< 0.0002	-	-
Chromium	0.001	mg/L	< 0.001	< 0.001	-	-
Copper	0.001	mg/L	0.011	< 0.001	-	-
Lead	0.001	mg/L	< 0.001	< 0.001	-	-
Mercury	0.0001	mg/L	< 0.0001	< 0.0001	-	-
Nickel	0.001	mg/L	0.002	< 0.001	-	-
Zinc	0.005	mg/L	0.009	< 0.005	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	0.02	mg/L	< 0.02	-	-	-
TRH C10-C14	0.05	mg/L	< 0.05	-	-	-
TRH C15-C28	0.1	mg/L	< 0.1	-	-	-
TRH C29-C36	0.1	mg/L	< 0.1	-	-	-
TRH C10-C36 (Total)	0.1	mg/L	< 0.1	-	-	-
Volatile Organics						
1.1-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
1.1.1-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.1.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2-Trichloroethane	0.001	mg/L	< 0.001	-	-	-
1.1.2.2-Tetrachloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dibromoethane	0.001	mg/L	< 0.001	-	-	-

Client Sample ID			SW05	Rinsate	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-No30645	S20-No30646	S20-No30647	S20-No30648
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
1.2-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloroethane	0.001	mg/L	< 0.001	-	-	-
1.2-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.3-Trichloropropane	0.001	mg/L	< 0.001	-	-	-
1.2.4-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
1.3-Dichloropropane	0.001	mg/L	< 0.001	-	-	-
1.3.5-Trimethylbenzene	0.001	mg/L	< 0.001	-	-	-
1.4-Dichlorobenzene	0.001	mg/L	< 0.001	-	-	-
2-Butanone (MEK)	0.001	mg/L	< 0.001	-	-	-
2-Propanone (Acetone)	0.001	mg/L	< 0.001	-	-	-
4-Chlorotoluene	0.001	mg/L	< 0.001	-	-	-
4-Methyl-2-pentanone (MIBK)	0.001	mg/L	< 0.001	-	-	-
Allyl chloride	0.001	mg/L	< 0.001	-	-	-
Benzene	0.001	mg/L	< 0.001	-	-	-
Bromobenzene	0.001	mg/L	< 0.001	-	-	-
Bromochloromethane	0.001	mg/L	< 0.001	-	-	-
Bromodichloromethane	0.001	mg/L	< 0.001	-	-	-
Bromoform	0.001	mg/L	< 0.001	-	-	-
Bromomethane	0.001	mg/L	< 0.001	-	-	-
Carbon disulfide	0.001	mg/L	< 0.001	-	-	-
Carbon Tetrachloride	0.001	mg/L	< 0.001	-	-	-
Chlorobenzene	0.001	mg/L	< 0.001	-	-	-
Chloroethane	0.001	mg/L	< 0.001	-	-	-
Chloroform	0.005	mg/L	< 0.005	-	-	-
Chloromethane	0.001	mg/L	< 0.001	-	-	-
cis-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
cis-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Dibromochloromethane	0.001	mg/L	< 0.001	-	-	-
Dibromomethane	0.001	mg/L	< 0.001	-	-	-
Dichlorodifluoromethane	0.001	mg/L	< 0.001	-	-	-
Ethylbenzene	0.001	mg/L	< 0.001	-	-	-
Iodomethane	0.001	mg/L	< 0.001	-	-	-
Isopropyl benzene (Cumene)	0.001	mg/L	< 0.001	-	-	-
m&p-Xylenes	0.002	mg/L	< 0.002	-	-	-
Methylene Chloride	0.001	mg/L	< 0.001	-	-	-
o-Xylene	0.001	mg/L	< 0.001	-	-	-
Styrene	0.001	mg/L	< 0.001	-	-	-
Tetrachloroethene	0.001	mg/L	< 0.001	-	-	-
Toluene	0.001	mg/L	< 0.001	-	-	-
trans-1.2-Dichloroethene	0.001	mg/L	< 0.001	-	-	-
trans-1.3-Dichloropropene	0.001	mg/L	< 0.001	-	-	-
Trichloroethene	0.001	mg/L	< 0.001	-	-	-
Trichlorofluoromethane	0.001	mg/L	< 0.001	-	-	-
Vinyl chloride	0.001	mg/L	< 0.001	-	-	-
Xylenes - Total*	0.003	mg/L	< 0.003	-	-	-
Total MAH*	0.003	mg/L	< 0.003	-	-	-
Vic EPA IWRG 621 CHC (Total)*	0.005	mg/L	< 0.005	-	-	-
Vic EPA IWRG 621 Other CHC (Total)*	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			SW05	Rinsate	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-No30645	S20-No30646	S20-No30647	S20-No30648
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Volatile Organics						
4-Bromofluorobenzene (surr.)	1	%	138	-	-	-
Toluene-d8 (surr.)	1	%	101	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.01	mg/L	< 0.01	-	-	-
TRH C6-C10	0.02	mg/L	< 0.02	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-	-	-
TRH >C10-C16	0.05	mg/L	< 0.05	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	< 0.05	-	-	-
TRH >C16-C34	0.1	mg/L	< 0.1	-	-	-
TRH >C34-C40	0.1	mg/L	< 0.1	-	-	-
TRH >C10-C40 (total)*	0.1	mg/L	< 0.1	-	-	-
Semivolatile Organics						
2-Methyl-4.6-dinitrophenol	0.03	mg/L	< 0.03	-	-	-
1-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
1-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
1.2-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.4-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.3.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.2.4.5-Tetrachlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.3.5-Trichlorobenzene	0.005	mg/L	< 0.005	-	-	-
1.4-Dichlorobenzene	0.005	mg/L	< 0.005	-	-	-
2-Chloronaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Chlorophenol	0.003	mg/L	< 0.003	-	-	-
2-Methylnaphthalene	0.005	mg/L	< 0.005	-	-	-
2-Methylphenol (o-Cresol)	0.003	mg/L	< 0.003	-	-	-
2-Naphthylamine	0.005	mg/L	< 0.005	-	-	-
2-Nitroaniline	0.005	mg/L	< 0.005	-	-	-
2-Nitrophenol	0.01	mg/L	< 0.01	-	-	-
2-Picoline	0.005	mg/L	< 0.005	-	-	-
2.3.4.6-Tetrachlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dimethylphenol	0.003	mg/L	< 0.003	-	-	-
2.4-Dinitrophenol	0.03	mg/L	< 0.03	-	-	-
2.4-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
2.4.5-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.4.6-Trichlorophenol	0.01	mg/L	< 0.01	-	-	-
2.6-Dichlorophenol	0.003	mg/L	< 0.003	-	-	-
2.6-Dinitrotoluene	0.005	mg/L	< 0.005	-	-	-
3&4-Methylphenol (m&p-Cresol)	0.006	mg/L	< 0.006	-	-	-
3-Methylcholanthrene	0.005	mg/L	< 0.005	-	-	-
3.3'-Dichlorobenzidine	0.005	mg/L	< 0.005	-	-	-
4-Aminobiphenyl	0.005	mg/L	< 0.005	-	-	-
4-Bromophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Chloro-3-methylphenol	0.01	mg/L	< 0.01	-	-	-
4-Chlorophenyl phenyl ether	0.005	mg/L	< 0.005	-	-	-
4-Nitrophenol	0.03	mg/L	< 0.03	-	-	-

Client Sample ID			SW05	Rinsate	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-No30645	S20-No30646	S20-No30647	S20-No30648
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
4.4'-DDD	0.005	mg/L	< 0.005	-	-	-
4.4'-DDE	0.005	mg/L	< 0.005	-	-	-
4.4'-DDT	0.005	mg/L	< 0.005	-	-	-
7.12-Dimethylbenz(a)anthracene	0.005	mg/L	< 0.005	-	-	-
a-BHC	0.005	mg/L	< 0.005	-	-	-
Acenaphthene	0.001	mg/L	< 0.001	-	-	-
Acenaphthylene	0.001	mg/L	< 0.001	-	-	-
Acetophenone	0.005	mg/L	< 0.005	-	-	-
Aldrin	0.005	mg/L	< 0.005	-	-	-
Aniline	0.005	mg/L	< 0.005	-	-	-
Anthracene	0.001	mg/L	< 0.001	-	-	-
b-BHC	0.005	mg/L	< 0.005	-	-	-
Benz(a)anthracene	0.001	mg/L	< 0.001	-	-	-
Benzo(a)pyrene	0.001	mg/L	< 0.001	-	-	-
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	-	-	-
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	-	-	-
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	-	-	-
Benzyl chloride	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroethoxy)methane	0.005	mg/L	< 0.005	-	-	-
Bis(2-chloroisopropyl)ether	0.005	mg/L	< 0.005	-	-	-
Bis(2-ethylhexyl)phthalate	0.005	mg/L	< 0.005	-	-	-
Butyl benzyl phthalate	0.005	mg/L	< 0.005	-	-	-
Chrysene	0.001	mg/L	< 0.001	-	-	-
d-BHC	0.005	mg/L	< 0.005	-	-	-
Di-n-butyl phthalate	0.005	mg/L	< 0.005	-	-	-
Di-n-octyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	-	-	-
Dibenz(a.j)acridine	0.005	mg/L	< 0.005	-	-	-
Dibenzofuran	0.005	mg/L	< 0.005	-	-	-
Dieldrin	0.005	mg/L	< 0.005	-	-	-
Diethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethyl phthalate	0.005	mg/L	< 0.005	-	-	-
Dimethylaminoazobenzene	0.005	mg/L	< 0.005	-	-	-
Diphenylamine	0.005	mg/L	< 0.005	-	-	-
Endosulfan I	0.005	mg/L	< 0.005	-	-	-
Endosulfan II	0.005	mg/L	< 0.005	-	-	-
Endosulfan sulphate	0.005	mg/L	< 0.005	-	-	-
Endrin	0.005	mg/L	< 0.005	-	-	-
Endrin aldehyde	0.005	mg/L	< 0.005	-	-	-
Endrin ketone	0.005	mg/L	< 0.005	-	-	-
Fluoranthene	0.001	mg/L	< 0.001	-	-	-
Fluorene	0.001	mg/L	< 0.001	-	-	-
g-BHC (Lindane)	0.005	mg/L	< 0.005	-	-	-
Heptachlor	0.005	mg/L	< 0.005	-	-	-
Heptachlor epoxide	0.005	mg/L	< 0.005	-	-	-
Hexachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Hexachlorobutadiene	0.005	mg/L	< 0.005	-	-	-
Hexachlorocyclopentadiene	0.005	mg/L	< 0.005	-	-	-
Hexachloroethane	0.005	mg/L	< 0.005	-	-	-

Client Sample ID			SW05	Rinsate	TS	TB
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S20-No30645	S20-No30646	S20-No30647	S20-No30648
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Semivolatile Organics						
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	-	-	-
Methoxychlor	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodibutylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosodipropylamine	0.005	mg/L	< 0.005	-	-	-
N-Nitrosopiperidine	0.005	mg/L	< 0.005	-	-	-
Naphthalene	0.001	mg/L	< 0.001	-	-	-
Nitrobenzene	0.05	mg/L	< 0.05	-	-	-
Pentachlorobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachloronitrobenzene	0.005	mg/L	< 0.005	-	-	-
Pentachlorophenol	0.01	mg/L	< 0.01	-	-	-
Phenanthrene	0.001	mg/L	< 0.001	-	-	-
Phenol	0.003	mg/L	< 0.003	-	-	-
Pronamide	0.005	mg/L	< 0.005	-	-	-
Pyrene	0.001	mg/L	< 0.001	-	-	-
Trifluralin	0.005	mg/L	< 0.005	-	-	-
Phenol-d6 (surr.)	1	%	48	-	-	-
Nitrobenzene-d5 (surr.)	1	%	95	-	-	-
2-Fluorobiphenyl (surr.)	1	%	129	-	-	-
2.4.6-Tribromophenol (surr.)	1	%	60	-	-	-
BTEX						
Benzene	1	%	-	-	100	-
Ethylbenzene	1	%	-	-	100	-
m&p-Xylenes	1	%	-	-	110	-
o-Xylene	1	%	-	-	100	-
Toluene	1	%	-	-	100	-
Xylenes - Total	1	%	-	-	100	-
4-Bromofluorobenzene (surr.)	1	%	-	-	115	-
BTEX						
Benzene	0.001	mg/L	-	-	-	< 0.001
Toluene	0.001	mg/L	-	-	-	< 0.001
Ethylbenzene	0.001	mg/L	-	-	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	-	-	< 0.002
o-Xylene	0.001	mg/L	-	-	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	-	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	-	-	120

Client Sample ID			WQA01
Sample Matrix			Water
Eurofins Sample No.			S20-No30649
Date Sampled			Nov 16, 2020
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons (Trace level)			
Acenaphthene	0.00001	mg/L	< 0.00001
Acenaphthylene	0.00001	mg/L	< 0.00001
Anthracene	0.00001	mg/L	< 0.00001
Benz(a)anthracene	0.00001	mg/L	< 0.00001
Benzo(a)pyrene	0.00001	mg/L	< 0.00001
Benzo(b&j)fluoranthene	0.00001	mg/L	< 0.00001

Client Sample ID			WQA01
Sample Matrix			**Water**
Eurofins Sample No.			**S20-No30649**
Date Sampled			**Nov 16, 2020**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons (Trace level)			
Benzo(g.h.i)perylene	0.00001	mg/L	< 0.00001
Benzo(k)fluoranthene	0.00001	mg/L	< 0.00001
Chrysene	0.00001	mg/L	< 0.00001
Dibenz(a.h)anthracene	0.00001	mg/L	< 0.00001
Fluoranthene	0.00001	mg/L	< 0.00001
Fluorene	0.00001	mg/L	< 0.00001
Indeno(1.2.3-cd)pyrene	0.00001	mg/L	< 0.00001
Naphthalene	0.00001	mg/L	< 0.00001
Phenanthrene	0.00001	mg/L	< 0.00001
Pyrene	0.00001	mg/L	< 0.00001
Total PAH*	0.00001	mg/L	< 0.00001
2-Fluorobiphenyl (surr.)	1	%	88
p-Terphenyl-d14 (surr.)	1	%	121
Ammonia (as N)	0.01	mg/L	0.02
Nitrate & Nitrite (as N)	0.05	mg/L	< 0.05
Nitrate (as N)	0.02	mg/L	< 0.02
Nitrite (as N)	0.02	mg/L	< 0.02
pH (at 25 °C)	0.1	pH Units	9.0
Total Suspended Solids Dried at 103–105°C	5	mg/L	8.4
Heavy Metals			
Arsenic	0.001	mg/L	< 0.001
Cadmium	0.0002	mg/L	< 0.0002
Chromium	0.001	mg/L	< 0.001
Copper	0.001	mg/L	0.032
Lead	0.001	mg/L	< 0.001
Mercury	0.0001	mg/L	< 0.0001
Nickel	0.001	mg/L	0.003
Zinc	0.005	mg/L	0.012

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons (Trace level)	Melbourne	Nov 19, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water (trace)			
Ammonia (as N)	Melbourne	Nov 19, 2020	28 Days
- Method: APHA 4500-NH3 Ammonia Nitrogen by FIA			
Nitrate & Nitrite (as N)	Melbourne	Nov 19, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrate (as N)	Melbourne	Nov 30, 2020	28 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
Nitrite (as N)	Melbourne	Nov 19, 2020	2 Days
- Method: LTM-INO-4120 Analysis of NOx NO2 NH3 by FIA			
pH (at 25 °C)	Sydney	Nov 19, 2020	1 Days
- Method: LTM-GEN-7090 pH in water by ISE			
Total Suspended Solids Dried at 103–105°C	Sydney	Nov 19, 2020	7 Days
- Method: LTM-INO-4070 Analysis of Suspended Solids in Water by Gravimetry			
Metals M8	Sydney	Nov 20, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
BTEX	Sydney	Nov 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Melbourne	Nov 19, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 18, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Melbourne	Nov 19, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Volatile Organics	Sydney	Nov 18, 2020	7 Days
- Method: LTM-ORG-2150 VOCs in Soils Liquid and other Aqueous Matrices			
Semivolatile Organics	Melbourne	Nov 19, 2020	7 Days
- Method: LTM-ORG-2190 SVOC in Water & Soil by GC-MS			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757581
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 1:08 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						Ammonia (as N)	Nitrate & Nitrite (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Metals M8	BTEX	Total Recoverable Hydrocarbons	Eurofins Suite SW: SVOC/VOC	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271						X	X	X	X					X	X		X
Sydney Laboratory - NATA Site # 18217										X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794																	
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	SW01	Nov 16, 2020		Water	S20-No30641	X	X	X	X	X	X	X					X
2	SW02	Nov 16, 2020		Water	S20-No30642	X	X	X	X	X	X	X					X
3	SW03	Nov 16, 2020		Water	S20-No30643	X	X	X	X	X	X	X					X
4	SW04	Nov 16, 2020		Water	S20-No30644	X	X	X	X	X	X	X					X
5	SW05	Nov 16, 2020		Water	S20-No30645	X	X	X	X	X	X	X		X	X		X
6	Rinsate	Nov 16, 2020		Water	S20-No30646	X	X	X	X	X	X	X					X
7	TS	Nov 16, 2020		Water	S20-No30647											X	
8	TB	Nov 16, 2020		Water	S20-No30648								X				
9	WQA01	Nov 16, 2020		Water	S20-No30649	X	X	X	X	X	X	X					X

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
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Phone: 02 8245 0300
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Received: Nov 18, 2020 1:08 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail	Ammonia (as N)	Nitrate & Nitrite (as N)	Nitrate (as N)	Nitrite (as N)	pH (at 25 °C)	Total Suspended Solids Dried at 103–105°C	Metals M8	BTEX	Total Recoverable Hydrocarbons	Eurofins Suite SVV: SVOC/VOC	BTEX	Polycyclic Aromatic Hydrocarbons (Trace level)
Melbourne Laboratory - NATA Site # 1254 & 14271	X	X	X	X					X	X		X
Sydney Laboratory - NATA Site # 18217					X	X	X	X	X	X	X	
Brisbane Laboratory - NATA Site # 20794												
Perth Laboratory - NATA Site # 23736												
Mayfield Laboratory												
External Laboratory												
Test Counts	7	7	7	7	7	7	7	1	1	1	1	8

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	mg/L	< 0.00001			0.00001	Pass	
Acenaphthylene	mg/L	< 0.00001			0.00001	Pass	
Anthracene	mg/L	< 0.00001			0.00001	Pass	
Benz(a)anthracene	mg/L	< 0.00001			0.00001	Pass	
Benzo(a)pyrene	mg/L	< 0.00001			0.00001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.00001			0.00001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Chrysene	mg/L	< 0.00001			0.00001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.00001			0.00001	Pass	
Fluoranthene	mg/L	< 0.00001			0.00001	Pass	
Fluorene	mg/L	< 0.00001			0.00001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.00001			0.00001	Pass	
Naphthalene	mg/L	< 0.00001			0.00001	Pass	
Phenanthrene	mg/L	< 0.00001			0.00001	Pass	
Pyrene	mg/L	< 0.00001			0.00001	Pass	
Total PAH*	mg/L	-			0.00001	N/A	
Method Blank							
Ammonia (as N)	mg/L	< 0.01			0.01	Pass	
Nitrate & Nitrite (as N)	mg/L	< 0.05			0.05	Pass	
Nitrate (as N)	mg/L	< 0.02			0.02	Pass	
Nitrite (as N)	mg/L	< 0.02			0.02	Pass	
Total Suspended Solids Dried at 103–105°C	mg/L	< 5			5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Volatile Organics							
1.1-Dichloroethane	mg/L	< 0.001			0.001	Pass	
1.1-Dichloroethene	mg/L	< 0.001			0.001	Pass	
1.1.1-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.1.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2-Trichloroethane	mg/L	< 0.001			0.001	Pass	
1.1.2.2-Tetrachloroethane	mg/L	< 0.001			0.001	Pass	
1.2-Dibromoethane	mg/L	< 0.001			0.001	Pass	
1.2-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.2-Dichloroethane	mg/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1.2-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.3-Trichloropropane	mg/L	< 0.001			0.001	Pass	
1.2.4-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
1.3-Dichloropropane	mg/L	< 0.001			0.001	Pass	
1.3.5-Trimethylbenzene	mg/L	< 0.001			0.001	Pass	
1.4-Dichlorobenzene	mg/L	< 0.001			0.001	Pass	
2-Butanone (MEK)	mg/L	< 0.001			0.001	Pass	
2-Propanone (Acetone)	mg/L	< 0.001			0.001	Pass	
4-Chlorotoluene	mg/L	< 0.001			0.001	Pass	
4-Methyl-2-pentanone (MIBK)	mg/L	< 0.001			0.001	Pass	
Allyl chloride	mg/L	< 0.001			0.001	Pass	
Benzene	mg/L	< 0.001			0.001	Pass	
Bromobenzene	mg/L	< 0.001			0.001	Pass	
Bromochloromethane	mg/L	< 0.001			0.001	Pass	
Bromodichloromethane	mg/L	< 0.001			0.001	Pass	
Bromoform	mg/L	< 0.001			0.001	Pass	
Bromomethane	mg/L	< 0.001			0.001	Pass	
Carbon disulfide	mg/L	< 0.001			0.001	Pass	
Carbon Tetrachloride	mg/L	< 0.001			0.001	Pass	
Chlorobenzene	mg/L	< 0.001			0.001	Pass	
Chloroethane	mg/L	< 0.001			0.001	Pass	
Chloroform	mg/L	< 0.005			0.005	Pass	
Chloromethane	mg/L	< 0.001			0.001	Pass	
cis-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
cis-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Dibromochloromethane	mg/L	< 0.001			0.001	Pass	
Dibromomethane	mg/L	< 0.001			0.001	Pass	
Dichlorodifluoromethane	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
Iodomethane	mg/L	< 0.001			0.001	Pass	
Isopropyl benzene (Cumene)	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
Methylene Chloride	mg/L	< 0.001			0.001	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Tetrachloroethene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
trans-1.2-Dichloroethene	mg/L	< 0.001			0.001	Pass	
trans-1.3-Dichloropropene	mg/L	< 0.001			0.001	Pass	
Trichloroethene	mg/L	< 0.001			0.001	Pass	
Trichlorofluoromethane	mg/L	< 0.001			0.001	Pass	
Vinyl chloride	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons (Trace level)							
Acenaphthene	%	77			70-130	Pass	
Acenaphthylene	%	74			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Anthracene	%	90			70-130	Pass	
Benz(a)anthracene	%	78			70-130	Pass	
Benzo(a)pyrene	%	71			70-130	Pass	
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	77			70-130	Pass	
Benzo(k)fluoranthene	%	108			70-130	Pass	
Chrysene	%	98			70-130	Pass	
Dibenz(a.h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	98			70-130	Pass	
Fluorene	%	79			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	105			70-130	Pass	
Naphthalene	%	88			70-130	Pass	
Phenanthrene	%	91			70-130	Pass	
Pyrene	%	96			70-130	Pass	
LCS - % Recovery							
Ammonia (as N)	%	112			70-130	Pass	
Nitrate & Nitrite (as N)	%	108			70-130	Pass	
Nitrate (as N)	%	108			70-130	Pass	
Nitrite (as N)	%	102			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	%	87			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	105			80-120	Pass	
Cadmium	%	101			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	96			80-120	Pass	
Lead	%	98			80-120	Pass	
Mercury	%	114			80-120	Pass	
Nickel	%	99			80-120	Pass	
Zinc	%	99			80-120	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	73			70-130	Pass	
TRH C10-C14	%	109			70-130	Pass	
LCS - % Recovery							
Volatile Organics							
Benzene	%	83			70-130	Pass	
Ethylbenzene	%	111			70-130	Pass	
m&p-Xylenes	%	98			70-130	Pass	
o-Xylene	%	99			70-130	Pass	
Toluene	%	89			70-130	Pass	
Xylenes - Total*	%	98			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	110			70-130	Pass	
TRH C6-C10	%	76			70-130	Pass	
TRH >C10-C16	%	111			70-130	Pass	
LCS - % Recovery							
Semivolatile Organics							
2-Chlorophenol	%	62			30-130	Pass	
2.4-Dinitrophenol	%	31			30-130	Pass	
Acenaphthene	%	88			70-130	Pass	
N-Nitrosodipropylamine	%	79			70-130	Pass	
Phenol	%	69			30-130	Pass	
Pyrene	%	112			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1					
Acenaphthene	M20-No07720	NCP	%	76			70-130	Pass	
Acenaphthylene	M20-No07720	NCP	%	88			70-130	Pass	
Anthracene	M20-No07720	NCP	%	88			70-130	Pass	
Benz(a)anthracene	M20-No07720	NCP	%	74			70-130	Pass	
Benzo(a)pyrene	M20-No07720	NCP	%	78			70-130	Pass	
Benzo(b&j)fluoranthene	M20-No07720	NCP	%	79			70-130	Pass	
Benzo(g.h.i)perylene	M20-No07720	NCP	%	105			70-130	Pass	
Benzo(k)fluoranthene	M20-No07720	NCP	%	81			70-130	Pass	
Chrysene	M20-No07720	NCP	%	88			70-130	Pass	
Dibenz(a.h)anthracene	M20-No07720	NCP	%	112			70-130	Pass	
Fluoranthene	M20-No07720	NCP	%	76			70-130	Pass	
Fluorene	M20-No07720	NCP	%	73			70-130	Pass	
Indeno(1.2.3-cd)pyrene	M20-No07720	NCP	%	106			70-130	Pass	
Naphthalene	M20-No07720	NCP	%	74			70-130	Pass	
Phenanthrene	M20-No07720	NCP	%	76			70-130	Pass	
Pyrene	M20-No07720	NCP	%	75			70-130	Pass	
Spike - % Recovery									
				Result 1					
Ammonia (as N)	S20-No30641	CP	%	108			70-130	Pass	
Nitrate & Nitrite (as N)	S20-No30641	CP	%	105			70-130	Pass	
Nitrate (as N)	S20-No30641	CP	%	105			70-130	Pass	
Nitrite (as N)	S20-No30641	CP	%	103			70-130	Pass	
Total Suspended Solids Dried at 103–105°C	S20-No33218	NCP	%	83			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No32380	NCP	%	105			75-125	Pass	
Cadmium	S20-No32380	NCP	%	103			75-125	Pass	
Chromium	S20-No32380	NCP	%	97			75-125	Pass	
Copper	S20-No32380	NCP	%	95			75-125	Pass	
Lead	S20-No32380	NCP	%	96			75-125	Pass	
Mercury	S20-No32380	NCP	%	109			75-125	Pass	
Nickel	S20-No32380	NCP	%	96			75-125	Pass	
Zinc	S20-No32380	NCP	%	97			75-125	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-No30642	CP	%	103			70-130	Pass	
Spike - % Recovery									
Volatile Organics				Result 1					
Benzene	S20-No30642	CP	%	101			70-130	Pass	
Ethylbenzene	S20-No30642	CP	%	94			70-130	Pass	
m&p-Xylenes	S20-No30642	CP	%	95			70-130	Pass	
o-Xylene	S20-No30642	CP	%	95			70-130	Pass	
Toluene	S20-No30642	CP	%	93			70-130	Pass	
Xylenes - Total*	S20-No30642	CP	%	95			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-No30642	CP	%	88			70-130	Pass	
TRH C6-C10	S20-No30642	CP	%	108			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	M20-No36927	NCP	%	97			70-130	Pass	
Spike - % Recovery									

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	M20-No36927	NCP	%	100			70-130	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons (Trace level)				Result 1	Result 2	RPD			
Acenaphthene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Acenaphthylene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Anthracene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benz(a)anthracene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(a)pyrene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Chrysene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluoranthene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Fluorene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Naphthalene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Phenanthrene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Pyrene	S20-No20600	NCP	mg/L	< 0.00001	< 0.00001	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
Ammonia (as N)	S20-No30641	CP	mg/L	0.65	0.64	1.0	30%	Pass	
Nitrate & Nitrite (as N)	S20-No30641	CP	mg/L	0.35	0.35	<1	30%	Pass	
Nitrate (as N)	S20-No30641	CP	mg/L	0.34	0.34	<1	30%	Pass	
Nitrite (as N)	S20-No30641	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Total Suspended Solids Dried at 103–105°C	S20-No33218	NCP	mg/L	12	11	3.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No30641	CP	mg/L	0.002	0.002	10	30%	Pass	
Cadmium	S20-No30641	CP	mg/L	0.0003	0.0003	17	30%	Pass	
Chromium	S20-No30641	CP	mg/L	0.002	0.002	15	30%	Pass	
Copper	S20-No30641	CP	mg/L	0.15	0.16	4.0	30%	Pass	
Lead	S20-No30641	CP	mg/L	0.006	0.006	10	30%	Pass	
Mercury	S20-No30641	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-No30641	CP	mg/L	0.017	0.017	4.0	30%	Pass	
Zinc	S20-No30641	CP	mg/L	0.13	0.13	2.0	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-No30641	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
Duplicate									
Volatile Organics				Result 1	Result 2	RPD			
Benzene	S20-No30641	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-No30641	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-No30641	CP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-No30641	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-No30641	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-No30641	CP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-No30641	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-No30641	CP	mg/L	< 0.02	< 0.02	<1	30%	Pass	

Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	B20-No27852	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	B20-No27852	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	B20-No27852	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	B20-No27852	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	B20-No27852	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	B20-No27852	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
2-Methyl-4.6-dinitrophenol	M20-No21817	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
1-Chloronaphthalene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1-Naphthylamine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2-Dichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3-Trichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3.4-Tetrachlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.3.5-Tetrachlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.4-Trichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.2.4.5-Tetrachlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.3-Dichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.3.5-Trichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
1.4-Dichlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Chloronaphthalene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Chlorophenol	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2-Methylnaphthalene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Methylphenol (o-Cresol)	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2-Naphthylamine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Nitroaniline	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2-Nitrophenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2-Picoline	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2.3.4.6-Tetrachlorophenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4-Dichlorophenol	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dimethylphenol	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.4-Dinitrophenol	M20-No21817	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
2.4-Dinitrotoluene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
2.4.5-Trichlorophenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.4.6-Trichlorophenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
2.6-Dichlorophenol	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
2.6-Dinitrotoluene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
3&4-Methylphenol (m&p-Cresol)	M20-No21817	NCP	mg/L	< 0.006	< 0.006	<1	30%	Pass	
3-Methylcholanthrene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
3.3'-Dichlorobenzidine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Aminobiphenyl	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Bromophenyl phenyl ether	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Chloro-3-methylphenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
4-Chlorophenyl phenyl ether	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4-Nitrophenol	M20-No21817	NCP	mg/L	< 0.03	< 0.03	<1	30%	Pass	
4.4'-DDD	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4.4'-DDE	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
4.4'-DDT	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
7.12-Dimethylbenz(a)anthracene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
a-BHC	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Acenaphthene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Acetophenone	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aldrin	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Aniline	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Anthracene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
b-BHC	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Benz(a)anthracene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzyl chloride	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-chloroethoxy)methane	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-chloroisopropyl)ether	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Bis(2-ethylhexyl)phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Butyl benzyl phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chrysene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
d-BHC	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Di-n-butyl phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Di-n-octyl phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dibenz(a.h)anthracene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.j)acridine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dibenzofuran	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dieldrin	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Diethyl phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dimethyl phthalate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Dimethylaminoazobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Diphenylamine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan I	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan II	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endosulfan sulphate	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin aldehyde	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Endrin ketone	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Fluoranthene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
g-BHC (Lindane)	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Heptachlor	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Heptachlor epoxide	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorobutadiene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachlorocyclopentadiene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Hexachloroethane	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Methoxychlor	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosodibutylamine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosodipropylamine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
N-Nitrosopiperidine	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Naphthalene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nitrobenzene	M20-No21817	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Pentachlorobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Pentachloronitrobenzene	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Pentachlorophenol	M20-No21817	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Phenanthrene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenol	M20-No21817	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	

Duplicate									
Semivolatile Organics				Result 1	Result 2	RPD			
Pronamide	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Pyrene	M20-No21817	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Trifluralin	M20-No21817	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	

Comments

This report has been revised (V2) to amend Rinsate results.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Joseph Edouard	Senior Analyst-Organic (VIC)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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019869

CHAIN OF CUSTODY

Pg 1/1

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Mance Rd
DATE NEEDED BY: 48hr

LABORATORY BATCH NO.:
SAMPLERS: CK
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKauffman@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH (low level)	Ammonia	Nitrite	Nitrate	pH/TSS	TRH	SVOC	VOC	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SW01	water	16/11/20		Amber, 2vials, metal, green, purple		X	X	X	X	X	X							
SW02						X	X	X	X	X	X							
03						X	X	X	X	X	X							
04						X	X	X	X	X	X							
05						X	X	X	X	X	X	X	X	X				
rinsate						X	X	X	X	X	X							
TS		13/11/20		2xvials											X			
TB															X			
WQA01		16/11/20		Amber, 2vials, metal, green, purple		X	X	X	X	X	X							Please forward [illegible] to Melbourne laboratories
~~WQA01~~																		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 17/11/20 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: UR DATE: 18/11/2020 OF: 1:8PM	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 6.5°C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

#757581

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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	MAMRE RD
Project ID:	59884
Turnaround time:	2 Day
Date/Time received	Nov 18, 2020 1:08 PM
Eurofins reference	757581

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 6.5 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757712-S**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TP42_0-0.1**	**TP52_0-0.1**	**TP63_0-0.1**	G01 **TP130_0.2-0.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-No31831**	**S20-No31832**	**S20-No31833**	**S20-No31834**
Date Sampled			**Nov 18, 2020**	**Nov 18, 2020**	**Nov 18, 2020**	**Nov 18, 2020**
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	82	86	-	93
p-Terphenyl-d14 (surr.)	1	%	94	104	-	99
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-

Client Sample ID			TP42_0-0.1	TP52_0-0.1	TP63_0-0.1	G01 TP130_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31831	S20-No31832	S20-No31833	S20-No31834
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	122	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	80	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	14	7.4	12	6.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	19	16	17	18
Copper	5	mg/kg	19	22	19	24
Lead	5	mg/kg	28	22	23	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	15	15	12	19
Zinc	5	mg/kg	67	47	47	58
% Moisture	1	%	17	15	16	14
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	< 1
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	< 1
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	< 1
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	< 1
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	< 1
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	< 1
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	< 1
Total PCB*	0.5	mg/kg	-	-	< 0.5	< 1
Dibutylchlorendate (surr.)	1	%	-	-	150	INT
Tetrachloro-m-xylene (surr.)	1	%	-	-	86	92
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 1000
TRH C15-C28	50	mg/kg	-	-	-	< 2500
TRH C29-C36	50	mg/kg	-	-	-	4400
TRH C10-C36 (Total)	50	mg/kg	-	-	-	4400
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2

Client Sample ID			TP42_0-0.1	TP52_0-0.1	TP63_0-0.1	[G01]TP130_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31831	S20-No31832	S20-No31833	S20-No31834
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
BTEX						
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	123
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 2500
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 2500
TRH >C16-C34	100	mg/kg	-	-	-	< 5000
TRH >C34-C40	100	mg/kg	-	-	-	< 5000
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 5000

Client Sample ID			TP130_0.7-0.8	DRUM1	TP135_0.2-0.3	TP138_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31835	S20-No31836	S20-No31838	S20-No31839
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	-	1.2
Acenaphthene	0.5	mg/kg	-	-	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	-	< 0.5
Anthracene	0.5	mg/kg	-	-	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Chrysene	0.5	mg/kg	-	-	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	-	< 0.5
Fluoranthene	0.5	mg/kg	-	-	-	< 0.5
Fluorene	0.5	mg/kg	-	-	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	-	< 0.5
Naphthalene	0.5	mg/kg	-	-	-	< 0.5
Phenanthrene	0.5	mg/kg	-	-	-	< 0.5
Pyrene	0.5	mg/kg	-	-	-	< 0.5
Total PAH*	0.5	mg/kg	-	-	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	-	95
p-Terphenyl-d14 (surr.)	1	%	-	-	-	109
Heavy Metals						
Arsenic	2	mg/kg	10	-	-	11
Cadmium	0.4	mg/kg	< 0.4	-	-	< 0.4
Chromium	5	mg/kg	19	-	-	22
Copper	5	mg/kg	29	-	-	38
Lead	5	mg/kg	11	-	-	52

Client Sample ID			TP130_0.7-0.8	DRUM1	TP135_0.2-0.3	TP138_0-0.2
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31835	S20-No31836	S20-No31838	S20-No31839
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Mercury	0.1	mg/kg	< 0.1	-	-	< 0.1
Nickel	5	mg/kg	10	-	-	18
Zinc	5	mg/kg	48	-	-	430
% Moisture	1	%	15	-	14	3.4
Coal Tar in Asphalt*[M11]		-	-	Absent	-	-
% Clay	1	%	-	-	20	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	330	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	7.2	-
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	118	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	77	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	-	-
TRH C10-C14	20	mg/kg	< 20	-	-	-
TRH C15-C28	50	mg/kg	< 50	-	-	-
TRH C29-C36	50	mg/kg	< 50	-	-	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	-	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	-	-
Toluene	0.1	mg/kg	< 0.1	-	-	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	-	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	-	-
o-Xylene	0.1	mg/kg	< 0.1	-	-	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	-	-
4-Bromofluorobenzene (surr.)	1	%	124	-	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	-	-
TRH C6-C10	20	mg/kg	< 20	-	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	-	-
TRH >C10-C16	50	mg/kg	< 50	-	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	-	-
TRH >C16-C34	100	mg/kg	< 100	-	-	-
TRH >C34-C40	100	mg/kg	< 100	-	-	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	-	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	26	-

Client Sample ID			TP138A_0-0.4	RZ01_0-0.05	RZ02_0-0.1	RZ03_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31840	S20-No31841	S20-No31843	S20-No31845
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	87	86	85	81
p-Terphenyl-d14 (surr.)	1	%	100	106	101	106
Heavy Metals						
Arsenic	2	mg/kg	6.8	16	16	12
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	53	20	21	22
Copper	5	mg/kg	27	45	30	30
Lead	5	mg/kg	18	15	30	14
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	50	13	14	12
Zinc	5	mg/kg	62	69	130	54
% Moisture	1	%	12	13	13	9.4
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	147	144	-	143
Tetrachloro-m-xylene (surr.)	1	%	83	89	-	87
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	79
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	79

Client Sample ID			TP138A_0-0.4	RZ01_0-0.05	RZ02_0-0.1	RZ03_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31840	S20-No31841	S20-No31843	S20-No31845
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	123	123	113	122
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	130
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	130

Client Sample ID			RZ03_0.3-0.4	RZ04_0-0.1	RZ05_0-0.1	RZ06_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31846	S20-No31848	S20-No31850	S20-No31852
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	75	95	86	90
p-Terphenyl-d14 (surr.)	1	%	96	113	92	105

Client Sample ID			RZ03_0.3-0.4	RZ04_0-0.1	RZ05_0-0.1	RZ06_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31846	S20-No31848	S20-No31850	S20-No31852
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	19	3.1	2.9	6.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	0.5	0.7
Chromium	5	mg/kg	26	130	88	95
Copper	5	mg/kg	47	35	47	40
Lead	5	mg/kg	15	21	56	73
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	9.2	100	110	88
Zinc	5	mg/kg	39	170	980	680
% Moisture	1	%	14	8.1	19	9.7
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PCB*	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	144	-	138
Tetrachloro-m-xylene (surr.)	1	%	-	92	-	85
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	-	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	-	< 50	130	< 50
TRH C29-C36	50	mg/kg	-	< 50	190	< 50
TRH C10-C36 (Total)	50	mg/kg	-	< 50	320	< 50
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	122	117	118
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	-	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	-	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	-	< 100	270	< 100
TRH >C34-C40	100	mg/kg	-	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	270	< 100

Client Sample ID			RZ07_0-0.1	RZ08_0-0.1	RZ09_0-0.1	RZ10_0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31854	S20-No31856	S20-No31858	S20-No31859
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	88	98	86
p-Terphenyl-d14 (surr.)	1	%	108	84	95	82
Heavy Metals						
Arsenic	2	mg/kg	14	2.1	9.2	7.7
Cadmium	0.4	mg/kg	2.4	< 0.4	0.8	< 0.4
Chromium	5	mg/kg	33	25	32	19
Copper	5	mg/kg	58	12	41	42
Lead	5	mg/kg	200	13	120	96
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	27	27	22	12
Zinc	5	mg/kg	1900	50	610	170
% Moisture	1	%	15	16	16	13
% Clay	1	%	-	-	-	23
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	-	37
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	-	6.3
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PCB*	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	106	92	-
Tetrachloro-m-xylene (surr.)	1	%	-	87	95	-

Client Sample ID			RZ07_0-0.1	RZ08_0-0.1	RZ09_0-0.1	RZ10_0-0.05
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31854	S20-No31856	S20-No31858	S20-No31859
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	58	83	< 50	< 50
TRH C29-C36	50	mg/kg	96	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	154	83	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	142	121	129	109
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	130	190	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	130	190	< 100	< 100
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	-	23

Client Sample ID			RZ10A_0-0.1	RZ12_0-0.1	[G01]RZ13_0-0.15	RZ14_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31861	S20-No31862	S20-No31863	S20-No31864
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			RZ10A_0-0.1	RZ12_0-0.1	[G01]RZ13_0-0.15	RZ14_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No31861	S20-No31862	S20-No31863	S20-No31864
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	100	94	90	87
p-Terphenyl-d14 (surr.)	1	%	98	96	85	80
Heavy Metals						
Arsenic	2	mg/kg	9.1	6.6	8.2	10
Cadmium	0.4	mg/kg	< 0.4	0.4	0.4	0.7
Chromium	5	mg/kg	27	70	20	44
Copper	5	mg/kg	31	36	35	35
Lead	5	mg/kg	32	100	110	180
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	22	65	15	22
Zinc	5	mg/kg	69	260	220	400
% Moisture	1	%	10	10	20	16
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	116	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	97	-	-	-
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 100	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 250	150
TRH C29-C36	50	mg/kg	< 50	51	340	82
TRH C10-C36 (Total)	50	mg/kg	< 50	51	340	232
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	109	102	106	112
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 250	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 250	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 500	280
TRH >C34-C40	100	mg/kg	< 100	< 100	< 500	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 500	280

Client Sample ID			RZ14A_0-0.1	RZ15_0-0.1	RZ16_0-0.1	RZ13_FRAG
Sample Matrix			Soil	Soil	Soil	Building Materials
Eurofins Sample No.			S20-No31865	S20-No31867	S20-No31869	S20-No32358
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	-
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	88	81	89	-
p-Terphenyl-d14 (surr.)	1	%	89	88	95	-
Heavy Metals						
Arsenic	2	mg/kg	7.4	7.8	2.3	-
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	-
Chromium	5	mg/kg	19	19	37	-
Copper	5	mg/kg	34	26	16	-
Lead	5	mg/kg	48	24	7.5	-
Mercury	0.1	mg/kg	0.2	< 0.1	< 0.1	-
Nickel	5	mg/kg	13	11	46	-
Zinc	5	mg/kg	170	81	58	-
% Moisture	1	%	12	12	5.6	-
Mass of sample*		g	-	-	-	12
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB*	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	87	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	88	-	-

Client Sample ID			RZ14A_0-0.1	RZ15_0-0.1	RZ16_0-0.1	RZ13_FRAG
Sample Matrix			Soil	Soil	Soil	Building Materials
Eurofins Sample No.			S20-No31865	S20-No31867	S20-No31869	S20-No32358
Date Sampled			Nov 18, 2020	Nov 18, 2020	Nov 18, 2020	Nov 18, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	-
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	-
TRH C15-C28	50	mg/kg	< 50	51	< 50	-
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	51	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	120	103	107	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	-
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	-
TRH >C16-C34	100	mg/kg	< 100	100	< 100	-
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	100	< 100	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Coal Tar in Asphalt*	Sydney	Nov 19, 2020	0 Days
- Method: RMS Method T542 – identification of tar or pitch in asphalt			
% Clay	Brisbane	Nov 23, 2020	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Nov 19, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Polychlorinated Biphenyls	Sydney	Nov 19, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Eurofins Suite B6			
Metals M8	Sydney	Nov 19, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
% Moisture	Sydney	Nov 18, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Nov 20, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Nov 20, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																		
1	TP42_0-0.1	Nov 18, 2020		Soil	S20-No31831								X	X			X		X				
2	TP52_0-0.1	Nov 18, 2020		Soil	S20-No31832			X					X				X		X				
3	TP63_0-0.1	Nov 18, 2020		Soil	S20-No31833			X							X		X		X				
4	TP130_0.2-0.3	Nov 18, 2020		Soil	S20-No31834										X				X		X		
5	TP130_0.7-0.8	Nov 18, 2020		Soil	S20-No31835										X				X			X	
6	DRUM1	Nov 18, 2020		Soil	S20-No31836				X														
7	TP131_0-0.1	Nov 18, 2020		Soil	S20-No31837			X															
8	TP135_0.2-0.3	Nov 18, 2020		Soil	S20-No31838	X						X							X	X			
9	TP138_0-0.2	Nov 18, 2020		Soil	S20-No31839		X						X				X		X				

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Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
10	TP138A_0-0.4	Nov 18, 2020		Soil	S20-No31840		X								X				X		X		
11	RZ01_0-0.05	Nov 18, 2020		Soil	S20-No31841			X							X				X		X		
12	RZ02_0-0.3	Nov 18, 2020		Soil	S20-No31842			X															
13	RZ02_0-0.1	Nov 18, 2020		Soil	S20-No31843														X		X		
14	RZ03_0-0.3	Nov 18, 2020		Soil	S20-No31844			X															
15	RZ03_0-0.1	Nov 18, 2020		Soil	S20-No31845			X							X				X		X		
16	RZ03_0.3-0.4	Nov 18, 2020		Soil	S20-No31846								X				X		X				
17	RZ04_0-0.3	Nov 18, 2020		Soil	S20-No31847			X															
18	RZ04_0-0.1	Nov 18, 2020		Soil	S20-No31848										X				X		X		
19	RZ05_0-0.2	Nov 18, 2020		Soil	S20-No31849			X															
20	RZ05_0-0.1	Nov 18, 2020		Soil	S20-No31850														X		X		

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
21	RZ06_0-0.3	Nov 18, 2020		Soil	S20-No31851			X															
22	RZ06_0-0.1	Nov 18, 2020		Soil	S20-No31852										X				X		X		
23	RZ07_0-0.3	Nov 18, 2020		Soil	S20-No31853			X															
24	RZ07_0-0.1	Nov 18, 2020		Soil	S20-No31854														X		X		
25	RZ08_0-0.3	Nov 18, 2020		Soil	S20-No31855			X															
26	RZ08_0-0.1	Nov 18, 2020		Soil	S20-No31856										X				X		X		
27	RZ09_0-0.3	Nov 18, 2020		Soil	S20-No31857			X															
28	RZ09_0-0.1	Nov 18, 2020		Soil	S20-No31858										X				X		X		
29	RZ10_0-0.05	Nov 18, 2020		Soil	S20-No31859	X		X				X							X	X	X		
30	RZ10A_0-0.3	Nov 18, 2020		Soil	S20-No31860			X															
31	RZ10A_0-0.1	Nov 18, 2020		Soil	S20-No31861										X				X		X		

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
32	RZ12_0-0.1	Nov 18, 2020		Soil	S20-No31862			X											X		X		
33	RZ13_0-0.15	Nov 18, 2020		Soil	S20-No31863			X											X		X		
34	RZ14_0-0.1	Nov 18, 2020		Soil	S20-No31864			X											X		X		
35	RZ14A_0-0.1	Nov 18, 2020		Soil	S20-No31865			X											X		X		
36	RZ15_0-0.2	Nov 18, 2020		Soil	S20-No31866			X															
37	RZ15_0-0.1	Nov 18, 2020		Soil	S20-No31867										X				X		X		
38	RZ16_0-0.3	Nov 18, 2020		Soil	S20-No31868			X															
39	RZ16_0-0.1	Nov 18, 2020		Soil	S20-No31869			X											X		X		
40	TS	Nov 18, 2020		Water	S20-No31870																		X
41	TB	Nov 18, 2020		Water	S20-No31871													X					
42	TP130_0.2-0.3	Nov 18, 2020		US Leachate	S20-No31908								X			X	X						

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
43	TP44_0-0.1	Nov 18, 2020		Soil	S20-No31909					X													
44	TP44_0.2-0.3	Nov 18, 2020		Soil	S20-No31910					X													
45	TP45_0-0.1	Nov 18, 2020		Soil	S20-No31911					X													
46	TP49_0-0.1	Nov 18, 2020		Soil	S20-No31912					X													
47	TP49_0.3-0.4	Nov 18, 2020		Soil	S20-No31913					X													
48	TP50_0-0.1	Nov 18, 2020		Soil	S20-No31914					X													
49	TP51_0-0.1	Nov 18, 2020		Soil	S20-No31915					X													
50	TP51_0.2-0.3	Nov 18, 2020		Soil	S20-No31916					X													
51	TP52_0.2-0.3	Nov 18, 2020		Soil	S20-No31917					X													
52	TP53_0-0.1	Nov 18, 2020		Soil	S20-No31918					X													
53	TP54_0-0.1	Nov 18, 2020		Soil	S20-No31919					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
54	TP54_0.3-0.4	Nov 18, 2020		Soil	S20-No31920					X													
55	TP56_0-0.1	Nov 18, 2020		Soil	S20-No31921					X													
56	TP58_0-0.1	Nov 18, 2020		Soil	S20-No31922					X													
57	TP59_0-0.1	Nov 18, 2020		Soil	S20-No31923					X													
58	TP59_0.2-0.3	Nov 18, 2020		Soil	S20-No31924					X													
59	TP60_0-0.1	Nov 18, 2020		Soil	S20-No31925					X													
60	TP63_0.2-0.3	Nov 18, 2020		Soil	S20-No31926					X													
61	TP130_0.5-0.6	Nov 18, 2020		Soil	S20-No31927					X													
62	TP130_0.9-1.0	Nov 18, 2020		Soil	S20-No31928					X													
63	TP131_0.2-0.3	Nov 18, 2020		Soil	S20-No31929					X													
64	TP131_0.5-0.6	Nov 18, 2020		Soil	S20-No31930					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
65	TP131A_0-0.1	Nov 18, 2020		Soil	S20-No31931					X													
66	TP131A_0-0.4	Nov 18, 2020		Soil	S20-No31932					X													
67	TP131A_0.5-0.6	Nov 18, 2020		Soil	S20-No31933					X													
68	TP133_0-0.1	Nov 18, 2020		Soil	S20-No31934					X													
69	TP133_0.5-0.6	Nov 18, 2020		Soil	S20-No31935					X													
70	TP134_0-0.1	Nov 18, 2020		Soil	S20-No31936					X													
71	TP134_0.5-0.6	Nov 18, 2020		Soil	S20-No31937					X													
72	TP135_0-0.1	Nov 18, 2020		Soil	S20-No31938					X													
73	TP135_0.5-0.6	Nov 18, 2020		Soil	S20-No31939					X													
74	TP136_0-0.1	Nov 18, 2020		Soil	S20-No31940					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
75	TP136_0.2-0.3	Nov 18, 2020		Soil	S20-No31941					X													
76	TP136_0.5-0.6	Nov 18, 2020		Soil	S20-No31942					X													
77	TP137_0-0.1	Nov 18, 2020		Soil	S20-No31943					X													
78	TP137_0.2-0.3	Nov 18, 2020		Soil	S20-No31944					X													
79	TP138_0-0.1	Nov 18, 2020		Soil	S20-No31945					X													
80	TP138_0.3-0.4	Nov 18, 2020		Soil	S20-No31946					X													
81	TP138A_0-0.1	Nov 18, 2020		Soil	S20-No31947					X													
82	TP138A_0.5-0.6	Nov 18, 2020		Soil	S20-No31948					X													
83	RZ01_0.3-0.4	Nov 18, 2020		Soil	S20-No31949					X													
84	RZ02_0.4-0.5	Nov 18, 2020		Soil	S20-No31950					X													

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Address: Level 1, 50 Margaret St
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
85	RZ04_0.3-0.4	Nov 18, 2020		Soil	S20-No31951					X													
86	RZ05_0.3-0.4	Nov 18, 2020		Soil	S20-No31952					X													
87	RZ06_0.3-0.4	Nov 18, 2020		Soil	S20-No31953					X													
88	RZ07_0.5-0.6	Nov 18, 2020		Soil	S20-No31954					X													
89	RZ08_0.3-0.4	Nov 18, 2020		Soil	S20-No31955					X													
90	RZ09_0.4-0.5	Nov 18, 2020		Soil	S20-No31956					X													
91	RZ10_0.2-0.3	Nov 18, 2020		Soil	S20-No31957					X													
92	RZ10_0.4-0.5	Nov 18, 2020		Soil	S20-No31958					X													
93	RZ10A_0.4-0.5	Nov 18, 2020		Soil	S20-No31959					X													
94	RZ12_0.2-0.3	Nov 18, 2020		Soil	S20-No31960					X													

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Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
95	RZ13_0.2-0.3	Nov 18, 2020		Soil	S20-No31961					X													
96	RZ14_0.1-0.2	Nov 18, 2020		Soil	S20-No31962					X													
97	RZ14A_0.1-0.2	Nov 18, 2020		Soil	S20-No31963					X													
98	RZ15_0.3-0.4	Nov 18, 2020		Soil	S20-No31964					X													
99	RZ16_0.4-0.5	Nov 18, 2020		Soil	S20-No31965					X													
100	QC06	Nov 18, 2020		Soil	S20-No31966					X													
101	TP43_0-0.1	Nov 18, 2020		Soil	S20-No32357					X													
102	RZ13_FRAG	Nov 18, 2020		Building Materials	S20-No32358						X												
Test Counts						2	2	22	1	59	1	2	5	1	12	1	6	1	26	2	19	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	99			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	97			70-130	Pass	
Benz(a)anthracene	%	99			70-130	Pass	
Benzo(a)pyrene	%	97			70-130	Pass	
Benzo(b&j)fluoranthene	%	93			70-130	Pass	
Benzo(g.h.i)perylene	%	102			70-130	Pass	
Benzo(k)fluoranthene	%	103			70-130	Pass	
Chrysene	%	114			70-130	Pass	
Dibenz(a.h)anthracene	%	104			70-130	Pass	
Fluoranthene	%	91			70-130	Pass	
Fluorene	%	99			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	104			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	103			70-130	Pass	
Pyrene	%	94			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	80			70-130	Pass	
4.4'-DDD	%	89			70-130	Pass	
4.4'-DDE	%	73			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-BHC	%	82			70-130	Pass	
Aldrin	%	74			70-130	Pass	
b-BHC	%	82			70-130	Pass	
d-BHC	%	81			70-130	Pass	
Dieldrin	%	77			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	80			70-130	Pass	
Endrin aldehyde	%	102			70-130	Pass	
Endrin ketone	%	96			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
g-BHC (Lindane)	%	83			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	93			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	98			80-120	Pass	
Cadmium	%	98			80-120	Pass	
Chromium	%	96			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	99			80-120	Pass	
Mercury	%	103			80-120	Pass	
Nickel	%	103			80-120	Pass	
Zinc	%	101			80-120	Pass	
LCS - % Recovery							
% Clay	%	97			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	107			70-130	Pass	
Aroclor-1260	%	118			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C10-C14	%	86			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
TRH >C10-C16	%	85			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-No31474	NCP	%	91			70-130	Pass	
4.4'-DDE	S20-No31474	NCP	%	87			70-130	Pass	
4.4'-DDT	S20-No31474	NCP	%	73			70-130	Pass	
Aldrin	S20-No31474	NCP	%	82			70-130	Pass	
Endosulfan I	S20-No31474	NCP	%	84			70-130	Pass	
Endrin	S20-No31474	NCP	%	71			70-130	Pass	
Endrin ketone	S20-No31474	NCP	%	88			70-130	Pass	
g-BHC (Lindane)	S20-No31474	NCP	%	74			70-130	Pass	
Heptachlor epoxide	S20-No31474	NCP	%	70			70-130	Pass	
Hexachlorobenzene	S20-No31474	NCP	%	105			70-130	Pass	
Methoxychlor	S20-No31474	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-No31832	CP	%	101			70-130	Pass	
Acenaphthylene	S20-No31832	CP	%	109			70-130	Pass	
Anthracene	S20-No31832	CP	%	106			70-130	Pass	
Benz(a)anthracene	S20-No31832	CP	%	90			70-130	Pass	
Benzo(a)pyrene	S20-No31832	CP	%	105			70-130	Pass	
Benzo(b&j)fluoranthene	S20-No31832	CP	%	108			70-130	Pass	
Benzo(g.h.i)perylene	S20-No31832	CP	%	118			70-130	Pass	
Benzo(k)fluoranthene	S20-No31832	CP	%	120			70-130	Pass	
Chrysene	S20-No31832	CP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S20-No31832	CP	%	110			70-130	Pass	
Fluoranthene	S20-No31832	CP	%	95			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Fluorene	S20-No31832	CP	%	109			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-No31832	CP	%	94			70-130	Pass	
Naphthalene	S20-No31832	CP	%	105			70-130	Pass	
Phenanthrene	S20-No31832	CP	%	101			70-130	Pass	
Pyrene	S20-No31832	CP	%	91			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No31832	CP	%	93			75-125	Pass	
Cadmium	S20-No31832	CP	%	92			75-125	Pass	
Chromium	S20-No31832	CP	%	85			75-125	Pass	
Copper	S20-No31832	CP	%	88			75-125	Pass	
Lead	S20-No31832	CP	%	99			75-125	Pass	
Mercury	S20-No31832	CP	%	96			75-125	Pass	
Nickel	S20-No31832	CP	%	90			75-125	Pass	
Zinc	S20-No31832	CP	%	98			75-125	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-No31474	NCP	%	98			70-130	Pass	
Aroclor-1260	S20-No31474	NCP	%	123			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-No21981	NCP	%	95			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-No21981	NCP	%	101			70-130	Pass	
Toluene	S20-No21981	NCP	%	93			70-130	Pass	
Ethylbenzene	S20-No21981	NCP	%	95			70-130	Pass	
m&p-Xylenes	S20-No21981	NCP	%	104			70-130	Pass	
o-Xylene	S20-No21981	NCP	%	105			70-130	Pass	
Xylenes - Total*	S20-No21981	NCP	%	104			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-No21981	NCP	%	85			70-130	Pass	
TRH C6-C10	S20-No21981	NCP	%	99			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-No31835	CP	%	84			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-No31835	CP	%	83			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-No31858	CP	%	93			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-No31858	CP	%	90			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No31864	CP	%	86			75-125	Pass	
Cadmium	S20-No31864	CP	%	86			75-125	Pass	
Copper	S20-No31864	CP	%	90			75-125	Pass	
Mercury	S20-No31864	CP	%	87			75-125	Pass	
Nickel	S20-No31864	CP	%	84			75-125	Pass	
Zinc	S20-No31864	CP	%	113			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-No31831	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-No31831	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-No31831	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No31831	CP	mg/kg	14	12	20	30%	Pass	
Cadmium	S20-No31831	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No31831	CP	mg/kg	19	17	12	30%	Pass	
Copper	S20-No31831	CP	mg/kg	19	18	3.0	30%	Pass	
Lead	S20-No31831	CP	mg/kg	28	24	17	30%	Pass	
Mercury	S20-No31831	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No31831	CP	mg/kg	15	12	26	30%	Pass	
Zinc	S20-No31831	CP	mg/kg	67	48	32	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No31831	CP	%	17	18	4.0	30%	Pass	

Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-No31831	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-No31831	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-No31831	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-No31831	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-No31831	CP	mg/kg	52	< 50	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-No31831	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-No31831	CP	mg/kg	100	110	1.0	30%	Pass	
TRH >C34-C40	S20-No31831	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No31833	CP	mg/kg	12	11	14	30%	Pass	
Cadmium	S20-No31833	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No31833	CP	mg/kg	17	20	16	30%	Pass	
Copper	S20-No31833	CP	mg/kg	19	27	35	30%	Fail	Q15
Lead	S20-No31833	CP	mg/kg	23	20	14	30%	Pass	
Mercury	S20-No31833	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No31833	CP	mg/kg	12	13	6.0	30%	Pass	
Zinc	S20-No31833	CP	mg/kg	47	49	4.0	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-No22133	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-No22133	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-No21990	NCP	mg/kg	< 20	< 20	<1	30%	Pass	
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-No21990	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-No21990	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-No21990	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-No21990	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-No21990	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-No21990	NCP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-No21990	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-No21990	NCP	mg/kg	< 20	< 20	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S20-No31838	CP	pH Units	7.2	7.6	Pass	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No31845	CP	%	9.4	10	7.0	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-No31861	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-No31861	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-No31861	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-No31861	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-No31861	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-No31861	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-No31861	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No31862	CP	%	10	10	1.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No31863	CP	mg/kg	8.2	9.7	16	30%	Pass	
Cadmium	S20-No31863	CP	mg/kg	0.4	0.5	25	30%	Pass	
Chromium	S20-No31863	CP	mg/kg	20	29	38	30%	Fail	Q15
Copper	S20-No31863	CP	mg/kg	35	46	28	30%	Pass	
Lead	S20-No31863	CP	mg/kg	110	170	48	30%	Fail	Q15
Mercury	S20-No31863	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No31863	CP	mg/kg	15	26	50	30%	Fail	Q15
Zinc	S20-No31863	CP	mg/kg	220	360	48	30%	Fail	Q15
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No31865	CP	mg/kg	7.4	8.0	8.0	30%	Pass	
Cadmium	S20-No31865	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No31865	CP	mg/kg	19	21	10	30%	Pass	
Copper	S20-No31865	CP	mg/kg	34	36	5.0	30%	Pass	
Lead	S20-No31865	CP	mg/kg	48	53	11	30%	Pass	
Mercury	S20-No31865	CP	mg/kg	0.2	0.3	43	30%	Fail	Q15

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Nickel	S20-No31865	CP	mg/kg	13	15	11	30%	Pass	
Zinc	S20-No31865	CP	mg/kg	170	200	17	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
M11	NATA/IANZ accreditation does not cover the performance of this service.
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	757712-AID
Project Name	MAMRE RD
Project ID	59884
Received Date	Nov 18, 2020
Date Reported	Nov 23, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name MAMRE RD
Project ID 59884
Date Sampled Nov 18, 2020
Report 757712-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP52_0-0.1	20-No31832	Nov 18, 2020	Approximate Sample 557g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP63_0-0.1	20-No31833	Nov 18, 2020	Approximate Sample 658g Sample consisted of: Brown coarse-grained clayey-sandy soil and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP131_0-0.1	20-No31837	Nov 18, 2020	Approximate Sample 793g Sample consisted of: Brown coarse-grained sandy soil and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP138_0-0.2	20-No31839	Nov 18, 2020	Approximate Sample 64g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
TP138A_0-0.4	20-No31840	Nov 18, 2020	Approximate Sample 46g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.01% w/w. Organic fibre detected. No trace asbestos detected.
RZ01_0-0.05	20-No31841	Nov 18, 2020	Approximate Sample 791g Sample consisted of: Brown coarse-grained clayey-sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ02_0-0.3	20-No31842	Nov 18, 2020	Approximate Sample 646g Sample consisted of: Brown coarse-grained sandy soil, glass fragment, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ03_0-0.3	20-No31844	Nov 18, 2020	Approximate Sample 637g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
RZ03_0-0.1	20-No31845	Nov 18, 2020	Approximate Sample 728g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ04_0-0.3	20-No31847	Nov 18, 2020	Approximate Sample 510g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ05_0-0.2	20-No31849	Nov 18, 2020	Approximate Sample 579g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ06_0-0.3	20-No31851	Nov 18, 2020	Approximate Sample 512g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ07_0-0.3	20-No31853	Nov 18, 2020	Approximate Sample 610g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ08_0-0.3	20-No31855	Nov 18, 2020	Approximate Sample 737g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ09_0-0.3	20-No31857	Nov 18, 2020	Approximate Sample 639g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ10_0-0.05	20-No31859	Nov 18, 2020	Approximate Sample 492g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	AF: Chrysotile asbestos detected in compressed fibre cement fragments and in the form of loose fibre bundles. Approximate raw weight of AF = 3.3g* Estimated asbestos content in AF = 0.33g* Total estimated asbestos concentration in AF = 0.067% w/w* Organic fibre detected. No trace asbestos detected.
RZ10A_0-0.3	20-No31860	Nov 18, 2020	Approximate Sample 935g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ12_0-0.1	20-No31862	Nov 18, 2020	Approximate Sample 646g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ13_0-0.15	20-No31863	Nov 18, 2020	Approximate Sample 469g Sample consisted of: Brown coarse-grained sandy soil and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
RZ14_0-0.1	20-No31864	Nov 18, 2020	Approximate Sample 607g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ14A_0-0.1	20-No31865	Nov 18, 2020	Approximate Sample 474g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	AF: Chrysotile asbestos detected in the form of loose fibre bundles. Approximate raw weight of AF = 0.0023g* Estimated asbestos content in AF = 0.0021g* Total estimated asbestos concentration in AF = 0.00044% w/w* No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ15_0-0.2	20-No31866	Nov 18, 2020	Approximate Sample 319g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ16_0-0.3	20-No31868	Nov 18, 2020	Approximate Sample 815g Sample consisted of: Brown coarse-grained sandy soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ16_0-0.1	20-No31869	Nov 18, 2020	Approximate Sample 846g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Nov 18, 2020	Indefinite
Asbestos - LTM-ASB-8020	Sydney	Nov 18, 2020	Indefinite

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Project Name: MAMRE RD
Project ID: 59884

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Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																		
1	TP42_0-0.1	Nov 18, 2020		Soil	S20-No31831								X	X			X		X				
2	TP52_0-0.1	Nov 18, 2020		Soil	S20-No31832			X					X				X		X				
3	TP63_0-0.1	Nov 18, 2020		Soil	S20-No31833			X							X		X		X				
4	TP130_0.2-0.3	Nov 18, 2020		Soil	S20-No31834										X				X		X		
5	TP130_0.7-0.8	Nov 18, 2020		Soil	S20-No31835										X				X			X	
6	DRUM1	Nov 18, 2020		Soil	S20-No31836				X														
7	TP131_0-0.1	Nov 18, 2020		Soil	S20-No31837			X															
8	TP135_0.2-0.3	Nov 18, 2020		Soil	S20-No31838	X						X							X	X			
9	TP138_0-0.2	Nov 18, 2020		Soil	S20-No31839		X						X				X		X				

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
10	TP138A_0-0.4	Nov 18, 2020		Soil	S20-No31840		X								X				X		X		
11	RZ01_0-0.05	Nov 18, 2020		Soil	S20-No31841			X							X				X		X		
12	RZ02_0-0.3	Nov 18, 2020		Soil	S20-No31842			X															
13	RZ02_0-0.1	Nov 18, 2020		Soil	S20-No31843														X		X		
14	RZ03_0-0.3	Nov 18, 2020		Soil	S20-No31844			X															
15	RZ03_0-0.1	Nov 18, 2020		Soil	S20-No31845			X							X				X		X		
16	RZ03_0.3-0.4	Nov 18, 2020		Soil	S20-No31846								X				X		X				
17	RZ04_0-0.3	Nov 18, 2020		Soil	S20-No31847			X															
18	RZ04_0-0.1	Nov 18, 2020		Soil	S20-No31848										X				X		X		
19	RZ05_0-0.2	Nov 18, 2020		Soil	S20-No31849			X															
20	RZ05_0-0.1	Nov 18, 2020		Soil	S20-No31850														X		X		

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
21	RZ06_0-0.3	Nov 18, 2020		Soil	S20-No31851			X															
22	RZ06_0-0.1	Nov 18, 2020		Soil	S20-No31852										X				X		X		
23	RZ07_0-0.3	Nov 18, 2020		Soil	S20-No31853			X															
24	RZ07_0-0.1	Nov 18, 2020		Soil	S20-No31854														X		X		
25	RZ08_0-0.3	Nov 18, 2020		Soil	S20-No31855			X															
26	RZ08_0-0.1	Nov 18, 2020		Soil	S20-No31856										X				X		X		
27	RZ09_0-0.3	Nov 18, 2020		Soil	S20-No31857			X															
28	RZ09_0-0.1	Nov 18, 2020		Soil	S20-No31858										X				X		X		
29	RZ10_0-0.05	Nov 18, 2020		Soil	S20-No31859	X		X				X							X	X	X		
30	RZ10A_0-0.3	Nov 18, 2020		Soil	S20-No31860			X															
31	RZ10A_0-0.1	Nov 18, 2020		Soil	S20-No31861										X				X		X		

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Project ID:	59884		

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
32	RZ12_0-0.1	Nov 18, 2020		Soil	S20-No31862			X											X		X		
33	RZ13_0-0.15	Nov 18, 2020		Soil	S20-No31863			X											X		X		
34	RZ14_0-0.1	Nov 18, 2020		Soil	S20-No31864			X											X		X		
35	RZ14A_0-0.1	Nov 18, 2020		Soil	S20-No31865			X											X		X		
36	RZ15_0-0.2	Nov 18, 2020		Soil	S20-No31866			X															
37	RZ15_0-0.1	Nov 18, 2020		Soil	S20-No31867										X				X		X		
38	RZ16_0-0.3	Nov 18, 2020		Soil	S20-No31868			X															
39	RZ16_0-0.1	Nov 18, 2020		Soil	S20-No31869			X											X		X		
40	TS	Nov 18, 2020		Water	S20-No31870																		X
41	TB	Nov 18, 2020		Water	S20-No31871													X					
42	TP130_0.2-0.3	Nov 18, 2020		US Leachate	S20-No31908								X			X	X						

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
43	TP44_0-0.1	Nov 18, 2020		Soil	S20-No31909					X													
44	TP44_0.2-0.3	Nov 18, 2020		Soil	S20-No31910					X													
45	TP45_0-0.1	Nov 18, 2020		Soil	S20-No31911					X													
46	TP49_0-0.1	Nov 18, 2020		Soil	S20-No31912					X													
47	TP49_0.3-0.4	Nov 18, 2020		Soil	S20-No31913					X													
48	TP50_0-0.1	Nov 18, 2020		Soil	S20-No31914					X													
49	TP51_0-0.1	Nov 18, 2020		Soil	S20-No31915					X													
50	TP51_0.2-0.3	Nov 18, 2020		Soil	S20-No31916					X													
51	TP52_0.2-0.3	Nov 18, 2020		Soil	S20-No31917					X													
52	TP53_0-0.1	Nov 18, 2020		Soil	S20-No31918					X													
53	TP54_0-0.1	Nov 18, 2020		Soil	S20-No31919					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
54	TP54_0.3-0.4	Nov 18, 2020		Soil	S20-No31920					X													
55	TP56_0-0.1	Nov 18, 2020		Soil	S20-No31921					X													
56	TP58_0-0.1	Nov 18, 2020		Soil	S20-No31922					X													
57	TP59_0-0.1	Nov 18, 2020		Soil	S20-No31923					X													
58	TP59_0.2-0.3	Nov 18, 2020		Soil	S20-No31924					X													
59	TP60_0-0.1	Nov 18, 2020		Soil	S20-No31925					X													
60	TP63_0.2-0.3	Nov 18, 2020		Soil	S20-No31926					X													
61	TP130_0.5-0.6	Nov 18, 2020		Soil	S20-No31927					X													
62	TP130_0.9-1.0	Nov 18, 2020		Soil	S20-No31928					X													
63	TP131_0.2-0.3	Nov 18, 2020		Soil	S20-No31929					X													
64	TP131_0.5-0.6	Nov 18, 2020		Soil	S20-No31930					X													

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
65	TP131A_0-0.1	Nov 18, 2020		Soil	S20-No31931					X													
66	TP131A_0-0.4	Nov 18, 2020		Soil	S20-No31932					X													
67	TP131A_0.5-0.6	Nov 18, 2020		Soil	S20-No31933					X													
68	TP133_0-0.1	Nov 18, 2020		Soil	S20-No31934					X													
69	TP133_0.5-0.6	Nov 18, 2020		Soil	S20-No31935					X													
70	TP134_0-0.1	Nov 18, 2020		Soil	S20-No31936					X													
71	TP134_0.5-0.6	Nov 18, 2020		Soil	S20-No31937					X													
72	TP135_0-0.1	Nov 18, 2020		Soil	S20-No31938					X													
73	TP135_0.5-0.6	Nov 18, 2020		Soil	S20-No31939					X													
74	TP136_0-0.1	Nov 18, 2020		Soil	S20-No31940					X													

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
75	TP136_0.2-0.3	Nov 18, 2020		Soil	S20-No31941					X													
76	TP136_0.5-0.6	Nov 18, 2020		Soil	S20-No31942					X													
77	TP137_0-0.1	Nov 18, 2020		Soil	S20-No31943					X													
78	TP137_0.2-0.3	Nov 18, 2020		Soil	S20-No31944					X													
79	TP138_0-0.1	Nov 18, 2020		Soil	S20-No31945					X													
80	TP138_0.3-0.4	Nov 18, 2020		Soil	S20-No31946					X													
81	TP138A_0-0.1	Nov 18, 2020		Soil	S20-No31947					X													
82	TP138A_0.5-0.6	Nov 18, 2020		Soil	S20-No31948					X													
83	RZ01_0.3-0.4	Nov 18, 2020		Soil	S20-No31949					X													
84	RZ02_0.4-0.5	Nov 18, 2020		Soil	S20-No31950					X													

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
85	RZ04_0.3-0.4	Nov 18, 2020		Soil	S20-No31951					X													
86	RZ05_0.3-0.4	Nov 18, 2020		Soil	S20-No31952					X													
87	RZ06_0.3-0.4	Nov 18, 2020		Soil	S20-No31953					X													
88	RZ07_0.5-0.6	Nov 18, 2020		Soil	S20-No31954					X													
89	RZ08_0.3-0.4	Nov 18, 2020		Soil	S20-No31955					X													
90	RZ09_0.4-0.5	Nov 18, 2020		Soil	S20-No31956					X													
91	RZ10_0.2-0.3	Nov 18, 2020		Soil	S20-No31957					X													
92	RZ10_0.4-0.5	Nov 18, 2020		Soil	S20-No31958					X													
93	RZ10A_0.4-0.5	Nov 18, 2020		Soil	S20-No31959					X													
94	RZ12_0.2-0.3	Nov 18, 2020		Soil	S20-No31960					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
95	RZ13_0.2-0.3	Nov 18, 2020		Soil	S20-No31961					X													
96	RZ14_0.1-0.2	Nov 18, 2020		Soil	S20-No31962					X													
97	RZ14A_0.1-0.2	Nov 18, 2020		Soil	S20-No31963					X													
98	RZ15_0.3-0.4	Nov 18, 2020		Soil	S20-No31964					X													
99	RZ16_0.4-0.5	Nov 18, 2020		Soil	S20-No31965					X													
100	QC06	Nov 18, 2020		Soil	S20-No31966					X													
101	TP43_0-0.1	Nov 18, 2020		Soil	S20-No32357					X													
102	RZ13_FRAG	Nov 18, 2020		Building Materials	S20-No32358						X												
Test Counts						2	2	22	1	59	1	2	5	1	12	1	6	1	26	2	19	1	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-No31839 & S20-No31840: The samples received were not collected in an approved asbestos bag and was therefore sub-sampled from the 250mL glass jar. Valid sub-sampling procedures were applied so as to ensure that the sub-samples to be analysed accurately represented the samples received.

S20-No31859, S20-No31863, S20-No31865 & S20-No31866: Samples received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

JBS & G Australia (NSW) P/L
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757712-L**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TP130_0.2-0.3**
Sample Matrix			**US Leachate**
Eurofins Sample No.			**S20-No31908**
Date Sampled			**Nov 18, 2020**
Test/Reference	LOR	Unit	
Polycyclic Aromatic Hydrocarbons			
Acenaphthene	0.001	mg/L	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001
Anthracene	0.001	mg/L	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001
Chrysene	0.001	mg/L	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001
Fluoranthene	0.001	mg/L	< 0.001
Fluorene	0.001	mg/L	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001
Naphthalene	0.001	mg/L	< 0.001
Phenanthrene	0.001	mg/L	< 0.001
Pyrene	0.001	mg/L	< 0.001
Total PAH*	0.001	mg/L	< 0.001
2-Fluorobiphenyl (surr.)	1	%	130
p-Terphenyl-d14 (surr.)	1	%	INT
Heavy Metals			
Arsenic	0.01	mg/L	< 0.01
Cadmium	0.005	mg/L	< 0.005
Chromium	0.05	mg/L	< 0.05
Copper	0.05	mg/L	< 0.05
Lead	0.01	mg/L	< 0.01
Mercury	0.001	mg/L	< 0.001
Nickel	0.01	mg/L	0.01
Zinc	0.05	mg/L	0.11
USA Leaching Procedure			
Leachate Fluid[C01]		comment	1.0
pH (initial)	0.1	pH Units	7.2
pH (off)	0.1	pH Units	5.1
pH (USA HCl addition)	0.1	pH Units	1.5

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 19, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Eurofins Suite B6			
Metals M8	Sydney	Nov 20, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Nov 19, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																		
1	TP42_0-0.1	Nov 18, 2020		Soil	S20-No31831								X	X			X		X				
2	TP52_0-0.1	Nov 18, 2020		Soil	S20-No31832			X					X				X		X				
3	TP63_0-0.1	Nov 18, 2020		Soil	S20-No31833			X							X		X		X				
4	TP130_0.2-0.3	Nov 18, 2020		Soil	S20-No31834										X				X		X		
5	TP130_0.7-0.8	Nov 18, 2020		Soil	S20-No31835										X				X			X	
6	DRUM1	Nov 18, 2020		Soil	S20-No31836				X														
7	TP131_0-0.1	Nov 18, 2020		Soil	S20-No31837			X															
8	TP135_0.2-0.3	Nov 18, 2020		Soil	S20-No31838	X						X							X	X			
9	TP138_0-0.2	Nov 18, 2020		Soil	S20-No31839		X						X				X		X				

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
10	TP138A_0-0.4	Nov 18, 2020		Soil	S20-No31840		X								X				X		X		
11	RZ01_0-0.05	Nov 18, 2020		Soil	S20-No31841			X							X				X		X		
12	RZ02_0-0.3	Nov 18, 2020		Soil	S20-No31842			X															
13	RZ02_0-0.1	Nov 18, 2020		Soil	S20-No31843														X		X		
14	RZ03_0-0.3	Nov 18, 2020		Soil	S20-No31844			X															
15	RZ03_0-0.1	Nov 18, 2020		Soil	S20-No31845			X							X				X		X		
16	RZ03_0.3-0.4	Nov 18, 2020		Soil	S20-No31846								X				X		X				
17	RZ04_0-0.3	Nov 18, 2020		Soil	S20-No31847			X															
18	RZ04_0-0.1	Nov 18, 2020		Soil	S20-No31848										X				X		X		
19	RZ05_0-0.2	Nov 18, 2020		Soil	S20-No31849			X															
20	RZ05_0-0.1	Nov 18, 2020		Soil	S20-No31850														X		X		

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
21	RZ06_0-0.3	Nov 18, 2020		Soil	S20-No31851			X															
22	RZ06_0-0.1	Nov 18, 2020		Soil	S20-No31852										X				X		X		
23	RZ07_0-0.3	Nov 18, 2020		Soil	S20-No31853			X															
24	RZ07_0-0.1	Nov 18, 2020		Soil	S20-No31854														X		X		
25	RZ08_0-0.3	Nov 18, 2020		Soil	S20-No31855			X															
26	RZ08_0-0.1	Nov 18, 2020		Soil	S20-No31856										X				X		X		
27	RZ09_0-0.3	Nov 18, 2020		Soil	S20-No31857			X															
28	RZ09_0-0.1	Nov 18, 2020		Soil	S20-No31858										X				X		X		
29	RZ10_0-0.05	Nov 18, 2020		Soil	S20-No31859	X		X				X							X	X	X		
30	RZ10A_0-0.3	Nov 18, 2020		Soil	S20-No31860			X															
31	RZ10A_0-0.1	Nov 18, 2020		Soil	S20-No31861										X				X		X		

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Project Name:	MAMRE RD		
Project ID:	59884		

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
32	RZ12_0-0.1	Nov 18, 2020		Soil	S20-No31862			X											X		X		
33	RZ13_0-0.15	Nov 18, 2020		Soil	S20-No31863			X											X		X		
34	RZ14_0-0.1	Nov 18, 2020		Soil	S20-No31864			X											X		X		
35	RZ14A_0-0.1	Nov 18, 2020		Soil	S20-No31865			X											X		X		
36	RZ15_0-0.2	Nov 18, 2020		Soil	S20-No31866			X															
37	RZ15_0-0.1	Nov 18, 2020		Soil	S20-No31867										X				X		X		
38	RZ16_0-0.3	Nov 18, 2020		Soil	S20-No31868			X															
39	RZ16_0-0.1	Nov 18, 2020		Soil	S20-No31869			X											X		X		
40	TS	Nov 18, 2020		Water	S20-No31870																		X
41	TB	Nov 18, 2020		Water	S20-No31871													X					
42	TP130_0.2-0.3	Nov 18, 2020		US Leachate	S20-No31908								X			X	X						

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
43	TP44_0-0.1	Nov 18, 2020		Soil	S20-No31909					X													
44	TP44_0.2-0.3	Nov 18, 2020		Soil	S20-No31910					X													
45	TP45_0-0.1	Nov 18, 2020		Soil	S20-No31911					X													
46	TP49_0-0.1	Nov 18, 2020		Soil	S20-No31912					X													
47	TP49_0.3-0.4	Nov 18, 2020		Soil	S20-No31913					X													
48	TP50_0-0.1	Nov 18, 2020		Soil	S20-No31914					X													
49	TP51_0-0.1	Nov 18, 2020		Soil	S20-No31915					X													
50	TP51_0.2-0.3	Nov 18, 2020		Soil	S20-No31916					X													
51	TP52_0.2-0.3	Nov 18, 2020		Soil	S20-No31917					X													
52	TP53_0-0.1	Nov 18, 2020		Soil	S20-No31918					X													
53	TP54_0-0.1	Nov 18, 2020		Soil	S20-No31919					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
54	TP54_0.3-0.4	Nov 18, 2020		Soil	S20-No31920					X													
55	TP56_0-0.1	Nov 18, 2020		Soil	S20-No31921					X													
56	TP58_0-0.1	Nov 18, 2020		Soil	S20-No31922					X													
57	TP59_0-0.1	Nov 18, 2020		Soil	S20-No31923					X													
58	TP59_0.2-0.3	Nov 18, 2020		Soil	S20-No31924					X													
59	TP60_0-0.1	Nov 18, 2020		Soil	S20-No31925					X													
60	TP63_0.2-0.3	Nov 18, 2020		Soil	S20-No31926					X													
61	TP130_0.5-0.6	Nov 18, 2020		Soil	S20-No31927					X													
62	TP130_0.9-1.0	Nov 18, 2020		Soil	S20-No31928					X													
63	TP131_0.2-0.3	Nov 18, 2020		Soil	S20-No31929					X													
64	TP131_0.5-0.6	Nov 18, 2020		Soil	S20-No31930					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
65	TP131A_0-0.1	Nov 18, 2020		Soil	S20-No31931					X													
66	TP131A_0-0.4	Nov 18, 2020		Soil	S20-No31932					X													
67	TP131A_0.5-0.6	Nov 18, 2020		Soil	S20-No31933					X													
68	TP133_0-0.1	Nov 18, 2020		Soil	S20-No31934					X													
69	TP133_0.5-0.6	Nov 18, 2020		Soil	S20-No31935					X													
70	TP134_0-0.1	Nov 18, 2020		Soil	S20-No31936					X													
71	TP134_0.5-0.6	Nov 18, 2020		Soil	S20-No31937					X													
72	TP135_0-0.1	Nov 18, 2020		Soil	S20-No31938					X													
73	TP135_0.5-0.6	Nov 18, 2020		Soil	S20-No31939					X													
74	TP136_0-0.1	Nov 18, 2020		Soil	S20-No31940					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
75	TP136_0.2-0.3	Nov 18, 2020		Soil	S20-No31941					X													
76	TP136_0.5-0.6	Nov 18, 2020		Soil	S20-No31942					X													
77	TP137_0-0.1	Nov 18, 2020		Soil	S20-No31943					X													
78	TP137_0.2-0.3	Nov 18, 2020		Soil	S20-No31944					X													
79	TP138_0-0.1	Nov 18, 2020		Soil	S20-No31945					X													
80	TP138_0.3-0.4	Nov 18, 2020		Soil	S20-No31946					X													
81	TP138A_0-0.1	Nov 18, 2020		Soil	S20-No31947					X													
82	TP138A_0.5-0.6	Nov 18, 2020		Soil	S20-No31948					X													
83	RZ01_0.3-0.4	Nov 18, 2020		Soil	S20-No31949					X													
84	RZ02_0.4-0.5	Nov 18, 2020		Soil	S20-No31950					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
85	RZ04_0.3-0.4	Nov 18, 2020		Soil	S20-No31951					X													
86	RZ05_0.3-0.4	Nov 18, 2020		Soil	S20-No31952					X													
87	RZ06_0.3-0.4	Nov 18, 2020		Soil	S20-No31953					X													
88	RZ07_0.5-0.6	Nov 18, 2020		Soil	S20-No31954					X													
89	RZ08_0.3-0.4	Nov 18, 2020		Soil	S20-No31955					X													
90	RZ09_0.4-0.5	Nov 18, 2020		Soil	S20-No31956					X													
91	RZ10_0.2-0.3	Nov 18, 2020		Soil	S20-No31957					X													
92	RZ10_0.4-0.5	Nov 18, 2020		Soil	S20-No31958					X													
93	RZ10A_0.4-0.5	Nov 18, 2020		Soil	S20-No31959					X													
94	RZ12_0.2-0.3	Nov 18, 2020		Soil	S20-No31960					X													

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Unit F3, Building F
16 Mars Road
Lane Cove West NSW 2066
Phone : +61 2 9900 8400
NATA # 1261 Site # 18217

Brisbane
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Murarrie QLD 4172
Phone : +61 7 3902 4600
NATA # 1261 Site # 20794

Perth
2/91 Leach Highway
Kewdale WA 6105
Phone : +61 8 9251 9600
NATA # 1261
Site # 23736

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New Zealand

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
95	RZ13_0.2-0.3	Nov 18, 2020		Soil	S20-No31961					X													
96	RZ14_0.1-0.2	Nov 18, 2020		Soil	S20-No31962					X													
97	RZ14A_0.1-0.2	Nov 18, 2020		Soil	S20-No31963					X													
98	RZ15_0.3-0.4	Nov 18, 2020		Soil	S20-No31964					X													
99	RZ16_0.4-0.5	Nov 18, 2020		Soil	S20-No31965					X													
100	QC06	Nov 18, 2020		Soil	S20-No31966					X													
101	TP43_0-0.1	Nov 18, 2020		Soil	S20-No32357					X													
102	RZ13_FRAG	Nov 18, 2020		Building Materials	S20-No32358						X												
Test Counts						2	2	22	1	59	1	2	5	1	12	1	6	1	26	2	19	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram
mg/L: milligrams per litre
ug/L: micrograms per litre
ppm: Parts per million
ppb: Parts per billion
%: Percentage
org/100mL: Organisms per 100 millilitres
NTU: Nephelometric Turbidity Units
MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	89			70-130	Pass	
Acenaphthylene	%	98			70-130	Pass	
Anthracene	%	94			70-130	Pass	
Benz(a)anthracene	%	85			70-130	Pass	
Benzo(a)pyrene	%	75			70-130	Pass	
Benzo(b&j)fluoranthene	%	75			70-130	Pass	
Benzo(g.h.i)perylene	%	83			70-130	Pass	
Benzo(k)fluoranthene	%	98			70-130	Pass	
Chrysene	%	100			70-130	Pass	
Dibenz(a.h)anthracene	%	71			70-130	Pass	
Fluoranthene	%	105			70-130	Pass	
Fluorene	%	98			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	70			70-130	Pass	
Naphthalene	%	109			70-130	Pass	
Phenanthrene	%	99			70-130	Pass	
Pyrene	%	108			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	100			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead			%	102			80-120	Pass	
Mercury			%	103			80-120	Pass	
Nickel			%	99			80-120	Pass	
Zinc			%	97			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-No30034	NCP	%	87			70-130	Pass	
Acenaphthylene	S20-No30034	NCP	%	96			70-130	Pass	
Anthracene	S20-No30034	NCP	%	91			70-130	Pass	
Benz(a)anthracene	S20-No30034	NCP	%	77			70-130	Pass	
Benzo(g.h.i)perylene	S20-No30034	NCP	%	79			70-130	Pass	
Benzo(k)fluoranthene	S20-No30034	NCP	%	88			70-130	Pass	
Chrysene	S20-No30034	NCP	%	91			70-130	Pass	
Dibenz(a.h)anthracene	S20-No30034	NCP	%	86			70-130	Pass	
Fluoranthene	S20-No30034	NCP	%	103			70-130	Pass	
Fluorene	S20-No30034	NCP	%	93			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-No30034	NCP	%	81			70-130	Pass	
Naphthalene	S20-No30034	NCP	%	107			70-130	Pass	
Phenanthrene	S20-No30034	NCP	%	93			70-130	Pass	
Pyrene	S20-No30034	NCP	%	103			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No24182	NCP	%	94			75-125	Pass	
Cadmium	S20-No24182	NCP	%	93			75-125	Pass	
Chromium	S20-No24182	NCP	%	84			75-125	Pass	
Copper	S20-No24182	NCP	%	80			75-125	Pass	
Lead	S20-No24182	NCP	%	83			75-125	Pass	
Mercury	S20-No24182	NCP	%	92			75-125	Pass	
Nickel	S20-No24182	NCP	%	86			75-125	Pass	
Zinc	S20-No24182	NCP	%	85			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Acenaphthylene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Anthracene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benz(a)anthracene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(a)pyrene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Chrysene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluoranthene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Fluorene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Naphthalene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Phenanthrene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Pyrene	S20-No29824	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No31908	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Cadmium	S20-No31908	CP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S20-No31908	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S20-No31908	CP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S20-No31908	CP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Mercury	S20-No31908	CP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S20-No31908	CP	mg/L	0.01	0.01	1.0	30%	Pass	
Zinc	S20-No31908	CP	mg/L	0.11	0.08	31	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757712-W**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S20-No31870**	**S20-No31871**
Date Sampled			**Nov 18, 2020**	**Nov 18, 2020**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	99	-
Ethylbenzene	1	%	100	-
m&p-Xylenes	1	%	100	-
o-Xylene	1	%	99	-
Toluene	1	%	100	-
Xylenes - Total	1	%	100	-
4-Bromofluorobenzene (surr.)	1	%	121	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	118

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Eurofins Suite B6			
BTEX	Sydney	Nov 18, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			

eurofins | Environment Testing

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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																		
1	TP42_0-0.1	Nov 18, 2020		Soil	S20-No31831								X	X			X		X				
2	TP52_0-0.1	Nov 18, 2020		Soil	S20-No31832			X					X				X		X				
3	TP63_0-0.1	Nov 18, 2020		Soil	S20-No31833			X							X		X		X				
4	TP130_0.2-0.3	Nov 18, 2020		Soil	S20-No31834										X				X		X		
5	TP130_0.7-0.8	Nov 18, 2020		Soil	S20-No31835										X				X			X	
6	DRUM1	Nov 18, 2020		Soil	S20-No31836				X														
7	TP131_0-0.1	Nov 18, 2020		Soil	S20-No31837			X															
8	TP135_0.2-0.3	Nov 18, 2020		Soil	S20-No31838	X						X							X	X			
9	TP138_0-0.2	Nov 18, 2020		Soil	S20-No31839		X						X				X		X				

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Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
10	TP138A_0-0.4	Nov 18, 2020		Soil	S20-No31840		X								X				X		X		
11	RZ01_0-0.05	Nov 18, 2020		Soil	S20-No31841			X							X				X		X		
12	RZ02_0-0.3	Nov 18, 2020		Soil	S20-No31842			X															
13	RZ02_0-0.1	Nov 18, 2020		Soil	S20-No31843														X		X		
14	RZ03_0-0.3	Nov 18, 2020		Soil	S20-No31844			X															
15	RZ03_0-0.1	Nov 18, 2020		Soil	S20-No31845			X							X				X		X		
16	RZ03_0.3-0.4	Nov 18, 2020		Soil	S20-No31846								X				X		X				
17	RZ04_0-0.3	Nov 18, 2020		Soil	S20-No31847			X															
18	RZ04_0-0.1	Nov 18, 2020		Soil	S20-No31848										X				X		X		
19	RZ05_0-0.2	Nov 18, 2020		Soil	S20-No31849			X															
20	RZ05_0-0.1	Nov 18, 2020		Soil	S20-No31850														X		X		

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
21	RZ06_0-0.3	Nov 18, 2020		Soil	S20-No31851			X															
22	RZ06_0-0.1	Nov 18, 2020		Soil	S20-No31852										X				X		X		
23	RZ07_0-0.3	Nov 18, 2020		Soil	S20-No31853			X															
24	RZ07_0-0.1	Nov 18, 2020		Soil	S20-No31854														X		X		
25	RZ08_0-0.3	Nov 18, 2020		Soil	S20-No31855			X															
26	RZ08_0-0.1	Nov 18, 2020		Soil	S20-No31856										X				X		X		
27	RZ09_0-0.3	Nov 18, 2020		Soil	S20-No31857			X															
28	RZ09_0-0.1	Nov 18, 2020		Soil	S20-No31858										X				X		X		
29	RZ10_0-0.05	Nov 18, 2020		Soil	S20-No31859	X		X				X							X	X	X		
30	RZ10A_0-0.3	Nov 18, 2020		Soil	S20-No31860			X															
31	RZ10A_0-0.1	Nov 18, 2020		Soil	S20-No31861										X				X		X		

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Project Name:	MAMRE RD		
Project ID:	59884		

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
32	RZ12_0-0.1	Nov 18, 2020		Soil	S20-No31862			X											X		X		
33	RZ13_0-0.15	Nov 18, 2020		Soil	S20-No31863			X											X		X		
34	RZ14_0-0.1	Nov 18, 2020		Soil	S20-No31864			X											X		X		
35	RZ14A_0-0.1	Nov 18, 2020		Soil	S20-No31865			X											X		X		
36	RZ15_0-0.2	Nov 18, 2020		Soil	S20-No31866			X															
37	RZ15_0-0.1	Nov 18, 2020		Soil	S20-No31867										X				X		X		
38	RZ16_0-0.3	Nov 18, 2020		Soil	S20-No31868			X															
39	RZ16_0-0.1	Nov 18, 2020		Soil	S20-No31869			X											X		X		
40	TS	Nov 18, 2020		Water	S20-No31870																		X
41	TB	Nov 18, 2020		Water	S20-No31871													X					
42	TP130_0.2-0.3	Nov 18, 2020		US Leachate	S20-No31908								X			X	X						

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
43	TP44_0-0.1	Nov 18, 2020		Soil	S20-No31909					X													
44	TP44_0.2-0.3	Nov 18, 2020		Soil	S20-No31910					X													
45	TP45_0-0.1	Nov 18, 2020		Soil	S20-No31911					X													
46	TP49_0-0.1	Nov 18, 2020		Soil	S20-No31912					X													
47	TP49_0.3-0.4	Nov 18, 2020		Soil	S20-No31913					X													
48	TP50_0-0.1	Nov 18, 2020		Soil	S20-No31914					X													
49	TP51_0-0.1	Nov 18, 2020		Soil	S20-No31915					X													
50	TP51_0.2-0.3	Nov 18, 2020		Soil	S20-No31916					X													
51	TP52_0.2-0.3	Nov 18, 2020		Soil	S20-No31917					X													
52	TP53_0-0.1	Nov 18, 2020		Soil	S20-No31918					X													
53	TP54_0-0.1	Nov 18, 2020		Soil	S20-No31919					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
54	TP54_0.3-0.4	Nov 18, 2020		Soil	S20-No31920					X													
55	TP56_0-0.1	Nov 18, 2020		Soil	S20-No31921					X													
56	TP58_0-0.1	Nov 18, 2020		Soil	S20-No31922					X													
57	TP59_0-0.1	Nov 18, 2020		Soil	S20-No31923					X													
58	TP59_0.2-0.3	Nov 18, 2020		Soil	S20-No31924					X													
59	TP60_0-0.1	Nov 18, 2020		Soil	S20-No31925					X													
60	TP63_0.2-0.3	Nov 18, 2020		Soil	S20-No31926					X													
61	TP130_0.5-0.6	Nov 18, 2020		Soil	S20-No31927					X													
62	TP130_0.9-1.0	Nov 18, 2020		Soil	S20-No31928					X													
63	TP131_0.2-0.3	Nov 18, 2020		Soil	S20-No31929					X													
64	TP131_0.5-0.6	Nov 18, 2020		Soil	S20-No31930					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
65	TP131A_0-0.1	Nov 18, 2020		Soil	S20-No31931					X													
66	TP131A_0-0.4	Nov 18, 2020		Soil	S20-No31932					X													
67	TP131A_0.5-0.6	Nov 18, 2020		Soil	S20-No31933					X													
68	TP133_0-0.1	Nov 18, 2020		Soil	S20-No31934					X													
69	TP133_0.5-0.6	Nov 18, 2020		Soil	S20-No31935					X													
70	TP134_0-0.1	Nov 18, 2020		Soil	S20-No31936					X													
71	TP134_0.5-0.6	Nov 18, 2020		Soil	S20-No31937					X													
72	TP135_0-0.1	Nov 18, 2020		Soil	S20-No31938					X													
73	TP135_0.5-0.6	Nov 18, 2020		Soil	S20-No31939					X													
74	TP136_0-0.1	Nov 18, 2020		Soil	S20-No31940					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
75	TP136_0.2-0.3	Nov 18, 2020		Soil	S20-No31941					X													
76	TP136_0.5-0.6	Nov 18, 2020		Soil	S20-No31942					X													
77	TP137_0-0.1	Nov 18, 2020		Soil	S20-No31943					X													
78	TP137_0.2-0.3	Nov 18, 2020		Soil	S20-No31944					X													
79	TP138_0-0.1	Nov 18, 2020		Soil	S20-No31945					X													
80	TP138_0.3-0.4	Nov 18, 2020		Soil	S20-No31946					X													
81	TP138A_0-0.1	Nov 18, 2020		Soil	S20-No31947					X													
82	TP138A_0.5-0.6	Nov 18, 2020		Soil	S20-No31948					X													
83	RZ01_0.3-0.4	Nov 18, 2020		Soil	S20-No31949					X													
84	RZ02_0.4-0.5	Nov 18, 2020		Soil	S20-No31950					X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
85	RZ04_0.3-0.4	Nov 18, 2020		Soil	S20-No31951					X													
86	RZ05_0.3-0.4	Nov 18, 2020		Soil	S20-No31952					X													
87	RZ06_0.3-0.4	Nov 18, 2020		Soil	S20-No31953					X													
88	RZ07_0.5-0.6	Nov 18, 2020		Soil	S20-No31954					X													
89	RZ08_0.3-0.4	Nov 18, 2020		Soil	S20-No31955					X													
90	RZ09_0.4-0.5	Nov 18, 2020		Soil	S20-No31956					X													
91	RZ10_0.2-0.3	Nov 18, 2020		Soil	S20-No31957					X													
92	RZ10_0.4-0.5	Nov 18, 2020		Soil	S20-No31958					X													
93	RZ10A_0.4-0.5	Nov 18, 2020		Soil	S20-No31959					X													
94	RZ12_0.2-0.3	Nov 18, 2020		Soil	S20-No31960					X													

eurofins | Environment Testing

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NATA # 1261 Site # 20794

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Phone : +64 9 526 45 51
IANZ # 1327

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43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757712
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 7:04 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - AS4964	Asbestos - WA guidelines	Coal Tar in Asphalt*	HOLD	Mass of sample*	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	Eurofins Suite B6	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X	X			
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X																	
Perth Laboratory - NATA Site # 23736																							
Mayfield Laboratory																							
External Laboratory																							
95	RZ13_0.2-0.3	Nov 18, 2020		Soil	S20-No31961					X													
96	RZ14_0.1-0.2	Nov 18, 2020		Soil	S20-No31962					X													
97	RZ14A_0.1-0.2	Nov 18, 2020		Soil	S20-No31963					X													
98	RZ15_0.3-0.4	Nov 18, 2020		Soil	S20-No31964					X													
99	RZ16_0.4-0.5	Nov 18, 2020		Soil	S20-No31965					X													
100	QC06	Nov 18, 2020		Soil	S20-No31966					X													
101	TP43_0-0.1	Nov 18, 2020		Soil	S20-No32357					X													
102	RZ13_FRAG	Nov 18, 2020		Building Materials	S20-No32358						X												
Test Counts						2	2	22	1	59	1	2	5	1	12	1	6	1	26	2	19	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	85			70-130	Pass	
o-Xylene	%	85			70-130	Pass	
Xylenes - Total*	%	85			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long — Analytical Services Manager

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

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CHAIN OF CUSTODY

pg 1/6

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
SEND REPORT TO: [redacted] SEND INVOICE TO: adminnsw@jbsg.com.au
DATE NEEDED BY: 48h CKauffman@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.: 757712
SAMPLERS: CK
PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	OCP	HM	PAH	Asbestos	NEPM	NOTES:
TP42_0-0.1	Soil	18/11/20		J+B		X	X	X			
TP42_0-0.1				J+B							
TP44_0-0.1				J+B							
↓ – 0.2-0.3				J							
TP45_0-0.1				J+B							
TP49_0-0.1				↓							
↓ – 0.3-0.4				J							
TP50_0-0.1				J+B							
TP51_0-0.1				↓							
↓ – 0.2-0.3				J							
TP52_0-0.1				J+B							
↓ – 0.2-0.3				J							
TP53_0-0.1				J+B							
TP54_0-0.1				↓							
↓ – 0.3-0.4				J							
TP56_0-0.1				J+B							
TP58_0-0.1				↓							
TP59_0-0.1				↓							
↓ – 0.2-0.3				J							
						X	X	X		7	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 18/11/20	CONSIGNMENT NOTE NO.	NAME: DATE: 18/11/2020	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

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CHAIN OF CUSTODY

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JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Mamre Rd	SAMPLERS:
SEND REPORT TO: SEND INVOICE TO:	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	TRH/BTEX	PCB	H.M	TCLP H.M	TCLP PAH	PAH	Cx/Hex Asbestos ID	Asbestos	VOC	NOTES:
TP60_0-0.1	soil	18/11/20		J+B											
TP63_0-0.1				↓			X	X					X	X	
↓ -0.2-0.3				J											
TP130_0.2-0.3				J		X	X	X	X	X	X				
↓ -0.5-0.6				↓											
↓ -0.7-0.8				↓		X	X	X							
↓ -0.9-1.0				↓											
Drum 1				↓								X			
TP131_0-0.1				J+B									X	X	
↓ -0.2-0.3				↓											
↓ -0.5-0.6				J											
TP131A_0-0.1				J+B											
↓ -0-0.4				B											
↓ -0.5-0.6				J											
TP133_0-0.1				J+B											
↓ -0.5-0.6				J											
TP134_0-0.1				J+B											
↓ -0.5-0.6				J											
TP135_0-0.1				J+B											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Suzanne Ford DATE: 18/11/2020 7:10pm	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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CHAIN OF CUSTODY

Pg 3/6

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
SEND REPORT TO: SEND INVOICE TO:	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	PAH	TRH/BTEX	PCB	CEC, pH, %clay																					NEPM	NOTES:
TP135_0.2-0.3	soil	18/11/20		J+B							X	X																					
↓ _0.5-0.6				J																													
TP136_0-0.1				J+B																													
↓ _0.2-0.3				J																													
↓ _0.5-0.6																																	
TP137_0-0.1				J+B																													
↓ _0.2-0.3				J																													
TP138_0-0.2				B		X	X	X																									
↓ _0-0.1				J+B																													
↓ _0.3-0.4				J																													
TP138A_0-0.4				B		X	X	X	X	X																							
↓ _0-0.1				J+B																													
↓ _0.5-0.6				J																													
R201_0-0.05				J+B		X	X	X	X	+																						X	
↓ _0.3-0.4				J																													
R202_0-0.3				B		X																										X	
↓ _0-0.1				J+B			X	X	X																								
↓ _0.4-0.5				J																													
R203_0-0.3				B		X				**	XXX																					X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: [illegible] Ford	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/2020 4:10pm	
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: Eurofins	COOLER TEMP ..... deg C
OF:	TRANSPORT CO	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
		OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

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CHAIN OF CUSTODY

Pg 4/6

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
SEND REPORT TO: SEND INVOICE TO:
DATE NEEDED BY:

LABORATORY BATCH NO.:
SAMPLERS:
PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	H.M	PAH	TRH/BTEX	OCP	NEPM	NOTES:
R203_0-0.1	Soil	19/11/20		J+B		X	X	X	X	X	✓	
↓ _0.3-0.4				J			X	X				
R204_0-0.3				B		X					✓	
↓ _0-0.1				J+B			X	X	X	+		
↓ _0.3-0.4				J								
R205_0-0.2				B		X					✓	
↓ _0-0.1				J+B			X	X	X			
↓ _0.3-0.4				J								
R206_0-0.3				B		X					✓	
↓ _0-0.1				J+B			X	X	X	X		
↓ _0.3-0.4				J								
R207_0-0.3				B		X					✓	
↓ _0-0.1				J+B			X	X	X			
↓ _0.5-0.6				J								
R208_0-0.3				B		X					✓	
↓ _0-0.1				J+B			X	X	X	+		
↓ _0.3-0.4				J								
R209_0-0.3				B		A					✓	
↓ _0-0.1				J+B			X	X	X	X		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Suzanne Ford	COOLER SEAL – Yes..... No ....., Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 19/11/2020 7:04PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium **Hydroxide Prsvd; VC** = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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CHAIN OF CUSTODY Pg 5/6

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Maurie Rd	SAMPLERS:
SEND REPORT TO: SEND INVOICE TO:	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	As, Cr, Ni, Pb, Zn, Cu, Cd, Hg	OCP & OPP	HM	TRH/BTEX	PCB	CEC, pH	Total Cr, Cr(VI)	NEPM	NOTES:
RZ09_0.4-0.5	Soil	18/11/20		J										
RZ10_0-0.05	↓	↓		J+B		X	X	Y	X		X	X	X	
↓ _0.2-0.3				↓										
↓ _0.4-0.5				J										
RZ10A_0-0.3				B		X							X	
↓ _0-0.1				J+B			X	Y	X	+				
↓ _0.4-0.5				J										
RZ12_0-0.1				J+B		X	X	Y	X				X	
↓ _0.2-0.3				J										
RZ13_0-0.15				J+B		X	X	Y	X				X	
↓ _0.2-0.3				J										
RZ14_0-0.1				J+B		X	X	Y	X				X	
↓ _0.1-0.2				J										
RZ14A_0-0.1				J+B		X	X	X	X				X	
↓ _0.1-0.2				J										
RZ15_0-0.2				B		X							X	
↓ _0-0.1				J+B			X	X	X	+				
↓ _0.3-0.4				J										
RZ16_0-0.3	↓	↓		Bag		X							X	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Suzanne Ford	COOLER SEAL – Yes..... No ....., Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/2020 7:04PM	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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CHAIN OF CUSTODY

Pg 6/

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
SEND REPORT TO: SEND INVOICE TO:	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY:	QC LEVEL: NEPM (2013)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	PAH	TRH/BTEX	BTEX	NEPM	NOTES:
BH16_0-0.1	Soil	18/11/20		J+B		X	X	X	X		X	
↓ _0.4-0.5	↓	↓		J								
QC06				J+B								
QA06				↓								Please forward QA06 to Envirolab
TS	water	17/11/20		2x vials						X		
TB	↓	↓		↓						↓		

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: Stephanie Ford DATE: 18/11/2020 9:04AM	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: Eurofins	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

#AU04_Enviro_Sample_NSW

To: Christopher Kauffman
Subject: RE: ATTENTION:Eurofins Sample Receipt Advice - Report 757712 : Site MAMRE RD (59884)

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Friday, 20 November 2020 11:35 AM
To: Ursula Long <UrsulaLong@eurofins.com>
Cc: #AU04_Enviro_Sample_NSW <EnviroSampleNSW@eurofins.com>
Subject: RE: ATTENTION:Eurofins Sample Receipt Advice - Report 757712 : Site MAMRE RD (59884)

Hi Ursula,

Can I please have this report updated, all sample locations “R2” should be “RZ”.

Can I request the fragment in RZ09_FRAG be weighed?

Thanks,
Chris

Chris Kauffman | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0425229447 | E: ckauffman@jbsg.com.au | W: www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Environmental Approvals | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Stakeholder and Risk Management

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ScannedByWebsenseForEurofins

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Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	MAMRE RD
Project ID:	59884
Turnaround time:	2 Day
Date/Time received	Nov 18, 2020 7:04 PM
Eurofins reference	757712

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 7.1 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Sample jar and bag, QA06 forwarded to Envirolab. Sample, R209_0.4-0.5 jar received broken - sample salvaged in new jar. Sample ID, TP42_0-0.1 mentioned twice on COC, line 2 of COC logged as TP43_0-0.1.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757742-S**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TP105_0.6-0.7**	**TP106_0.2-0.3**	**TP106A_0.6-0.7**	**TP107_0.2-0.3**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-No32082**	**S20-No32085**	**S20-No32087**	**S20-No32089**
Date Sampled			**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	92	79	89	90
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP105_0.6-0.7	TP106_0.2-0.3	TP106A_0.6-0.7	TP107_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32082	S20-No32085	S20-No32087	S20-No32089
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	80	84	87	79
p-Terphenyl-d14 (surr.)	1	%	72	79	87	76
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	111	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	104	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	15	7.8	13	3.8
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	29	16	26	8.9
Copper	5	mg/kg	35	14	24	8.0
Lead	5	mg/kg	230	86	150	35
Mercury	0.1	mg/kg	0.2	< 0.1	0.1	< 0.1
Nickel	5	mg/kg	24	11	22	< 5
Zinc	5	mg/kg	220	110	170	23
% Moisture	1	%	12	11	7.6	7.0
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			TP105_0.6-0.7	TP106_0.2-0.3	TP106A_0.6-0.7	TP107_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32082	S20-No32085	S20-No32087	S20-No32089
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	-	-	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	95	88
Tetrachloro-m-xylene (surr.)	1	%	-	-	84	80

Client Sample ID			TP107_1.4-1.5	TP108_0.6-0.7	TP108A_0.2-0.3	TP109_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32090	S20-No32092	S20-No32093	S20-No32095
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	< 20	-
TRH C10-C14	20	mg/kg	-	< 20	< 20	-
TRH C15-C28	50	mg/kg	-	< 50	< 50	-
TRH C29-C36	50	mg/kg	-	< 50	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	< 0.1	-
Toluene	0.1	mg/kg	-	< 0.1	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	< 0.2	-
o-Xylene	0.1	mg/kg	-	< 0.1	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	89	92	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	< 0.5	-
TRH C6-C10	20	mg/kg	-	< 20	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	< 20	-
TRH >C10-C16	50	mg/kg	-	< 50	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	< 50	-
TRH >C16-C34	100	mg/kg	-	< 100	< 100	-
TRH >C34-C40	100	mg/kg	-	< 100	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			TP107_1.4-1.5	TP108_0.6-0.7	TP108A_0.2-0.3	TP109_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32090	S20-No32092	S20-No32093	S20-No32095
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Anthracene	0.5	mg/kg	< 0.5	< 0.5	0.6	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	0.7	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	0.8	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	3.1	< 0.5
2-Fluorobiphenyl (surr.)	1	%	98	99	85	80
p-Terphenyl-d14 (surr.)	1	%	106	106	78	70
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1221	0.1	mg/kg	-	-	< 0.1	-
Aroclor-1232	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1242	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1248	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1254	0.5	mg/kg	-	-	< 0.5	-
Aroclor-1260	0.5	mg/kg	-	-	< 0.5	-
Total PCB*	0.5	mg/kg	-	-	< 0.5	-
Dibutylchlorendate (surr.)	1	%	-	-	93	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	81	-
Heavy Metals						
Arsenic	2	mg/kg	11	7.8	26	14
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	0.9
Chromium	5	mg/kg	24	20	38	30
Copper	5	mg/kg	25	22	50	41
Lead	5	mg/kg	12	27	260	130
Mercury	0.1	mg/kg	< 0.1	< 0.1	0.4	< 0.1
Nickel	5	mg/kg	9.7	13	23	26
Zinc	5	mg/kg	18	42	230	120
% Moisture	1	%	17	16	8.4	11
% Clay	1	%	-	-	8.0	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	170	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	8.5	-
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	-
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	-
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	-
a-BHC	0.05	mg/kg	-	-	< 0.05	-

Client Sample ID			TP107_1.4-1.5	TP108_0.6-0.7	TP108A_0.2-0.3	TP109_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32090	S20-No32092	S20-No32093	S20-No32095
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin	0.05	mg/kg	-	-	< 0.05	-
b-BHC	0.05	mg/kg	-	-	< 0.05	-
d-BHC	0.05	mg/kg	-	-	< 0.05	-
Dieldrin	0.05	mg/kg	-	-	0.08	-
Endosulfan I	0.05	mg/kg	-	-	< 0.05	-
Endosulfan II	0.05	mg/kg	-	-	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	-
Endrin	0.05	mg/kg	-	-	< 0.05	-
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	-
Endrin ketone	0.05	mg/kg	-	-	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	-
Heptachlor	0.05	mg/kg	-	-	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	-
Methoxychlor	0.2	mg/kg	-	-	< 0.2	-
Toxaphene	0.1	mg/kg	-	-	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	0.08	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	-
Dibutylchlorendate (surr.)	1	%	-	-	93	-
Tetrachloro-m-xylene (surr.)	1	%	-	-	81	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	30	-

Client Sample ID			TP109_0.6-0.7	TP110_0.6-0.7	TP110_1.4-1.5	TP111_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32096	S20-No32098	S20-No32099	S20-No32101
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	< 20	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	< 20	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	< 50	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	< 50	< 50	74
TRH C10-C36 (Total)	50	mg/kg	< 50	< 50	< 50	74
BTEX						
Benzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	< 0.2	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	< 0.3	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	86	93	90	93

Client Sample ID			TP109_0.6-0.7	TP110_0.6-0.7	TP110_1.4-1.5	TP111_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32096	S20-No32098	S20-No32099	S20-No32101
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	< 20	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	< 20	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	< 50	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	< 100	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	< 100	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	96	103	88	86
p-Terphenyl-d14 (surr.)	1	%	98	109	105	69
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1221	0.1	mg/kg	< 0.1	-	-	-
Aroclor-1232	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1242	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1248	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1254	0.5	mg/kg	< 0.5	-	-	-
Aroclor-1260	0.5	mg/kg	< 0.5	-	-	-
Total PCB*	0.5	mg/kg	< 0.5	-	-	-
Dibutylchlorendate (surr.)	1	%	133	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-
Heavy Metals						
Arsenic	2	mg/kg	14	15	11	8.5
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	23	35	27	27
Copper	5	mg/kg	20	37	36	20
Lead	5	mg/kg	30	68	19	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			TP109_0.6-0.7	TP110_0.6-0.7	TP110_1.4-1.5	TP111_0.2-0.3
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32096	S20-No32098	S20-No32099	S20-No32101
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Nickel	5	mg/kg	9.8	29	12	16
Zinc	5	mg/kg	36	78	31	95
% Moisture	1	%	19	18	20	12
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	133	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	92	-	-	-

Client Sample ID			TP112_0.2-0.3	TP114_0.2-0.3	TP115_0.2-0.3	TP116_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32104	S20-No32108	S20-No32110	S20-No32112
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	110
TRH C29-C36	50	mg/kg	< 50	-	< 50	73
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	183

Client Sample ID			TP112_0.2-0.3	TP114_0.2-0.3	TP115_0.2-0.3	TP116_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32104	S20-No32108	S20-No32110	S20-No32112
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	86	-	90	93
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	240
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	240
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	0.8	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	114	76	107	75
p-Terphenyl-d14 (surr.)	1	%	114	80	107	86
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1221	0.1	mg/kg	-	-	-	< 0.1
Aroclor-1232	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1242	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1248	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1254	0.5	mg/kg	-	-	-	< 0.5
Aroclor-1260	0.5	mg/kg	-	-	-	< 0.5
Total PCB*	0.5	mg/kg	-	-	-	< 0.5
Dibutylchlorendate (surr.)	1	%	-	-	-	139
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	93

Client Sample ID			TP112_0.2-0.3	TP114_0.2-0.3	TP115_0.2-0.3	TP116_0.5-0.6
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32104	S20-No32108	S20-No32110	S20-No32112
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	< 2	6.1	4.3	3.6
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	5.3	15	8.0	21
Copper	5	mg/kg	< 5	22	8.6	24
Lead	5	mg/kg	12	18	20	26
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	< 5	19	< 5	32
Zinc	5	mg/kg	8.4	130	48	49
% Moisture	1	%	8.3	15	9.8	5.1
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	-	< 0.05
a-BHC	0.05	mg/kg	-	-	-	< 0.05
Aldrin	0.05	mg/kg	-	-	-	< 0.05
b-BHC	0.05	mg/kg	-	-	-	< 0.05
d-BHC	0.05	mg/kg	-	-	-	< 0.05
Dieldrin	0.05	mg/kg	-	-	-	< 0.05
Endosulfan I	0.05	mg/kg	-	-	-	< 0.05
Endosulfan II	0.05	mg/kg	-	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	-	< 0.05
Endrin	0.05	mg/kg	-	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	-	< 0.05
Endrin ketone	0.05	mg/kg	-	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	-	-	< 0.05
Heptachlor	0.05	mg/kg	-	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	-	< 0.05
Methoxychlor	0.2	mg/kg	-	-	-	< 0.2
Toxaphene	0.1	mg/kg	-	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	-	139
Tetrachloro-m-xylene (surr.)	1	%	-	-	-	93

Client Sample ID			TP116_0.9-1.0	TP118_0-0.1	TP120_0-0.1	TP122_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32113	S20-No32114	S20-No32115	S20-No32116
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	< 20	-	-
TRH C10-C14	20	mg/kg	-	< 20	-	-
TRH C15-C28	50	mg/kg	-	< 50	-	-
TRH C29-C36	50	mg/kg	-	< 50	-	-
TRH C10-C36 (Total)	50	mg/kg	-	< 50	-	-
BTEX						
Benzene	0.1	mg/kg	-	< 0.1	-	-
Toluene	0.1	mg/kg	-	< 0.1	-	-
Ethylbenzene	0.1	mg/kg	-	< 0.1	-	-
m&p-Xylenes	0.2	mg/kg	-	< 0.2	-	-
o-Xylene	0.1	mg/kg	-	< 0.1	-	-
Xylenes - Total*	0.3	mg/kg	-	< 0.3	-	-
4-Bromofluorobenzene (surr.)	1	%	-	86	-	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	< 0.5	-	-
TRH C6-C10	20	mg/kg	-	< 20	-	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	< 20	-	-
TRH >C10-C16	50	mg/kg	-	< 50	-	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	< 50	-	-
TRH >C16-C34	100	mg/kg	-	< 100	-	-
TRH >C34-C40	100	mg/kg	-	< 100	-	-
TRH >C10-C40 (total)*	100	mg/kg	-	< 100	-	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	99	95	INT	86
p-Terphenyl-d14 (surr.)	1	%	102	107	101	97

Client Sample ID			TP116_0.9-1.0	TP118_0-0.1	TP120_0-0.1	TP122_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32113	S20-No32114	S20-No32115	S20-No32116
Date Sampled			Nov 16, 2020	Nov 16, 2020	Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1221	0.1	mg/kg	-	< 0.1	-	-
Aroclor-1232	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1242	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1248	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1254	0.5	mg/kg	-	< 0.5	-	-
Aroclor-1260	0.5	mg/kg	-	< 0.5	-	-
Total PCB*	0.5	mg/kg	-	< 0.5	-	-
Dibutylchlorendate (surr.)	1	%	-	97	-	-
Tetrachloro-m-xylene (surr.)	1	%	-	78	-	-
Heavy Metals						
Arsenic	2	mg/kg	8.4	18	15	10.0
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	24	27	23	21
Copper	5	mg/kg	22	26	16	11
Lead	5	mg/kg	21	34	25	18
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	20	14	11	6.3
Zinc	5	mg/kg	27	53	37	23
% Moisture	1	%	22	17	20	19
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	< 0.2	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	< 0.05	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	< 0.2	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	97	94	90
Tetrachloro-m-xylene (surr.)	1	%	-	78	76	77

Client Sample ID			TP02_0-0.1	TP07_0-0.1	TP25_0.5-0.6	TP26_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32120	S20-No32121	S20-No32122	S20-No32123
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	-
TRH C10-C14	20	mg/kg	< 20	-	< 20	-
TRH C15-C28	50	mg/kg	< 50	-	< 50	-
TRH C29-C36	50	mg/kg	< 50	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	-
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	-
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	121	-	118	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	-
TRH C6-C10	20	mg/kg	< 20	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	-
TRH >C10-C16	50	mg/kg	< 50	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	-
TRH >C16-C34	100	mg/kg	< 100	-	< 100	-
TRH >C34-C40	100	mg/kg	< 100	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	106	100	107	73
p-Terphenyl-d14 (surr.)	1	%	115	117	118	100

Client Sample ID			TP02_0-0.1	TP07_0-0.1	TP25_0.5-0.6	TP26_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32120	S20-No32121	S20-No32122	S20-No32123
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	12	11	11	13
Cadmium	0.4	mg/kg	< 0.4	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	30	25	33	39
Copper	5	mg/kg	31	18	30	21
Lead	5	mg/kg	15	24	25	29
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	25	14	21	16
Zinc	5	mg/kg	68	39	46	33
% Moisture	1	%	16	21	19	7.9
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	96	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	85	-	-	-

Client Sample ID			TP34_0-0.1	TP61_0-0.1	TP65_0-0.1	TP69_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32125	S20-No32127	S20-No32128	S20-No32129
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	< 20	-
TRH C10-C14	20	mg/kg	-	-	< 20	-
TRH C15-C28	50	mg/kg	-	-	< 50	-
TRH C29-C36	50	mg/kg	-	-	< 50	-
TRH C10-C36 (Total)	50	mg/kg	-	-	< 50	-
BTEX						
Benzene	0.1	mg/kg	-	-	< 0.1	-
Toluene	0.1	mg/kg	-	-	< 0.1	-
Ethylbenzene	0.1	mg/kg	-	-	< 0.1	-
m&p-Xylenes	0.2	mg/kg	-	-	< 0.2	-
o-Xylene	0.1	mg/kg	-	-	< 0.1	-
Xylenes - Total*	0.3	mg/kg	-	-	< 0.3	-
4-Bromofluorobenzene (surr.)	1	%	-	-	112	-
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	< 0.5	-
TRH C6-C10	20	mg/kg	-	-	< 20	-
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	< 20	-
TRH >C10-C16	50	mg/kg	-	-	< 50	-
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	< 50	-
TRH >C16-C34	100	mg/kg	-	-	< 100	-
TRH >C34-C40	100	mg/kg	-	-	< 100	-
TRH >C10-C40 (total)*	100	mg/kg	-	-	< 100	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	-	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	-	1.2	1.2
Acenaphthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	-	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Chrysene	0.5	mg/kg	-	-	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	-	-	< 0.5	< 0.5
Fluorene	0.5	mg/kg	-	-	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	-	-	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Pyrene	0.5	mg/kg	-	-	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	-	-	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	-	97	67
p-Terphenyl-d14 (surr.)	1	%	-	-	105	107

Client Sample ID			TP34_0-0.1	TP61_0-0.1	TP65_0-0.1	TP69_0.3-0.4
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32125	S20-No32127	S20-No32128	S20-No32129
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	2	mg/kg	-	-	20	9.5
Cadmium	0.4	mg/kg	-	-	< 0.4	< 0.4
Chromium	5	mg/kg	-	-	21	22
Copper	5	mg/kg	-	-	33	28
Lead	5	mg/kg	-	-	28	18
Mercury	0.1	mg/kg	-	-	< 0.1	< 0.1
Nickel	5	mg/kg	-	-	23	11
Zinc	5	mg/kg	-	-	72	46
% Moisture	1	%	15	24	15	22
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
4.4'-DDD	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDE	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
4.4'-DDT	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
a-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Aldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
b-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
d-BHC	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Dieldrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan I	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan II	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin aldehyde	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Endrin ketone	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Methoxychlor	0.2	mg/kg	< 0.2	< 0.2	< 0.2	-
Toxaphene	0.1	mg/kg	< 0.1	< 0.1	< 0.1	-
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	< 0.05	< 0.05	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	< 0.2	< 0.2	-
Dibutylchlorendate (surr.)	1	%	98	102	96	-
Tetrachloro-m-xylene (surr.)	1	%	83	91	81	-

Client Sample ID			TP76_0.3-0.4	TP82_0-0.1	TP88_0-0.1	TP90_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32130	S20-No32131	S20-No32132	S20-No32133
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	-	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	53	83	-	89
p-Terphenyl-d14 (surr.)	1	%	105	105	-	91
Heavy Metals						
Arsenic	2	mg/kg	17	13	-	9.2
Cadmium	0.4	mg/kg	< 0.4	< 0.4	-	< 0.4
Chromium	5	mg/kg	28	33	-	22
Copper	5	mg/kg	32	15	-	22
Lead	5	mg/kg	18	24	-	13
Mercury	0.1	mg/kg	< 0.1	< 0.1	-	< 0.1
Nickel	5	mg/kg	13	7.7	-	8.3
Zinc	5	mg/kg	65	29	-	28
% Moisture	1	%	25	23	17	19
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	-	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	-	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	-	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	-	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	-	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	-	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	-	-	< 0.05	< 0.05

Client Sample ID			TP76_0.3-0.4	TP82_0-0.1	TP88_0-0.1	TP90_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32130	S20-No32131	S20-No32132	S20-No32133
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
g-BHC (Lindane)	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor	0.05	mg/kg	-	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	-	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	-	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	-	-	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	-	-	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	-	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	-	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	-	-	97	85
Tetrachloro-m-xylene (surr.)	1	%	-	-	89	70

Client Sample ID			TP92_0-0.1	TP98_0.5-0.6	TP197_0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32134	S20-No32135	S20-No32138	S20-No32140
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	-	-	-	< 20
TRH C10-C14	20	mg/kg	-	-	-	< 20
TRH C15-C28	50	mg/kg	-	-	-	< 50
TRH C29-C36	50	mg/kg	-	-	-	< 50
TRH C10-C36 (Total)	50	mg/kg	-	-	-	< 50
BTEX						
Benzene	0.1	mg/kg	-	-	-	< 0.1
Toluene	0.1	mg/kg	-	-	-	< 0.1
Ethylbenzene	0.1	mg/kg	-	-	-	< 0.1
m&p-Xylenes	0.2	mg/kg	-	-	-	< 0.2
o-Xylene	0.1	mg/kg	-	-	-	< 0.1
Xylenes - Total*	0.3	mg/kg	-	-	-	< 0.3
4-Bromofluorobenzene (surr.)	1	%	-	-	-	102
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	-	-	-	< 0.5
TRH C6-C10	20	mg/kg	-	-	-	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	-	-	-	< 20
TRH >C10-C16	50	mg/kg	-	-	-	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	-	-	-	< 50
TRH >C16-C34	100	mg/kg	-	-	-	< 100
TRH >C34-C40	100	mg/kg	-	-	-	< 100
TRH >C10-C40 (total)*	100	mg/kg	-	-	-	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	-	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	-	1.2
Acenaphthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Acenaphthylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5

Client Sample ID			TP92_0-0.1	TP98_0.5-0.6	TP197_0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32134	S20-No32135	S20-No32138	S20-No32140
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	-	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Chrysene	0.5	mg/kg	-	< 0.5	-	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluoranthene	0.5	mg/kg	-	< 0.5	-	< 0.5
Fluorene	0.5	mg/kg	-	< 0.5	-	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Naphthalene	0.5	mg/kg	-	< 0.5	-	< 0.5
Phenanthrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Pyrene	0.5	mg/kg	-	< 0.5	-	< 0.5
Total PAH*	0.5	mg/kg	-	< 0.5	-	< 0.5
2-Fluorobiphenyl (surr.)	1	%	-	94	-	98
p-Terphenyl-d14 (surr.)	1	%	-	105	-	103
Heavy Metals						
Arsenic	2	mg/kg	-	15	15	22
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	-	25	26	32
Copper	5	mg/kg	-	17	22	9.0
Lead	5	mg/kg	-	23	27	24
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	-	14	13	< 5
Zinc	5	mg/kg	-	30	42	53
% Moisture	1	%	19	21	19	17
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	-
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	-
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	-
a-BHC	0.05	mg/kg	< 0.05	-	-	-
Aldrin	0.05	mg/kg	< 0.05	-	-	-
b-BHC	0.05	mg/kg	< 0.05	-	-	-
d-BHC	0.05	mg/kg	< 0.05	-	-	-
Dieldrin	0.05	mg/kg	< 0.05	-	-	-
Endosulfan I	0.05	mg/kg	< 0.05	-	-	-
Endosulfan II	0.05	mg/kg	< 0.05	-	-	-
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	-
Endrin	0.05	mg/kg	< 0.05	-	-	-
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	-
Endrin ketone	0.05	mg/kg	< 0.05	-	-	-
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	-
Heptachlor	0.05	mg/kg	< 0.05	-	-	-
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	-
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	-
Methoxychlor	0.2	mg/kg	< 0.2	-	-	-
Toxaphene	0.1	mg/kg	< 0.1	-	-	-

Client Sample ID			TP92_0-0.1	TP98_0.5-0.6	TP197_0-0.1	QC02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32134	S20-No32135	S20-No32138	S20-No32140
Date Sampled			Nov 17, 2020	Nov 17, 2020	Nov 17, 2020	Nov 16, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	-
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	-
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	-
Dibutylchlorendate (surr.)	1	%	101	-	-	-
Tetrachloro-m-xylene (surr.)	1	%	85	-	-	-

Client Sample ID			QC04	QC05	SED01	SED02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32142	S20-No32143	S20-No32146	S20-No32147
Date Sampled			Nov 16, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Total Recoverable Hydrocarbons - 1999 NEPM Fractions						
TRH C6-C9	20	mg/kg	< 20	-	< 20	< 20
TRH C10-C14	20	mg/kg	< 20	-	< 20	< 20
TRH C15-C28	50	mg/kg	< 50	-	< 50	< 50
TRH C29-C36	50	mg/kg	< 50	-	< 50	< 50
TRH C10-C36 (Total)	50	mg/kg	< 50	-	< 50	< 50
BTEX						
Benzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Toluene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Ethylbenzene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
m&p-Xylenes	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
o-Xylene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Xylenes - Total*	0.3	mg/kg	< 0.3	-	< 0.3	< 0.3
4-Bromofluorobenzene (surr.)	1	%	118	-	99	108
Total Recoverable Hydrocarbons - 2013 NEPM Fractions						
Naphthalene[N02]	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
TRH C6-C10	20	mg/kg	< 20	-	< 20	< 20
TRH C6-C10 less BTEX (F1)[N04]	20	mg/kg	< 20	-	< 20	< 20
TRH >C10-C16	50	mg/kg	< 50	-	< 50	< 50
TRH >C10-C16 less Naphthalene (F2)[N01]	50	mg/kg	< 50	-	< 50	< 50
TRH >C16-C34	100	mg/kg	< 100	-	< 100	< 100
TRH >C34-C40	100	mg/kg	< 100	-	< 100	< 100
TRH >C10-C40 (total)*	100	mg/kg	< 100	-	< 100	< 100
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5

Client Sample ID			QC04	QC05	SED01	SED02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32142	S20-No32143	S20-No32146	S20-No32147
Date Sampled			Nov 16, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	103	95	107	101
p-Terphenyl-d14 (surr.)	1	%	102	103	107	94
Polychlorinated Biphenyls						
Aroclor-1016	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1221	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aroclor-1232	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1242	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1248	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1254	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Aroclor-1260	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Total PCB*	0.5	mg/kg	< 0.5	-	< 0.5	< 0.5
Dibutylchlorendate (surr.)	1	%	95	-	96	99
Tetrachloro-m-xylene (surr.)	1	%	81	-	86	77
Heavy Metals						
Arsenic	2	mg/kg	12	13	14	8.8
Cadmium	0.4	mg/kg	0.7	< 0.4	< 0.4	< 0.4
Chromium	5	mg/kg	22	27	32	25
Copper	5	mg/kg	17	24	32	26
Lead	5	mg/kg	22	16	20	15
Mercury	0.1	mg/kg	< 0.1	< 0.1	< 0.1	< 0.1
Nickel	5	mg/kg	8.4	8.9	19	15
Zinc	5	mg/kg	36	29	58	36
% Moisture	1	%	20	12	48	23
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05

Client Sample ID			QC04	QC05	SED01	SED02
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No32142	S20-No32143	S20-No32146	S20-No32147
Date Sampled			Nov 16, 2020	Nov 17, 2020	Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Heptachlor	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	< 0.2	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	-	< 0.1	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	< 0.05	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	< 0.2	< 0.2
Dibutylchlorendate (surr.)	1	%	95	-	96	99
Tetrachloro-m-xylene (surr.)	1	%	81	-	86	77

Client Sample ID			SED03	SED04
Sample Matrix			Soil	Soil
Eurofins Sample No.			S20-No32148	S20-No32149
Date Sampled			Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	0.6	0.6
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	1.2	1.2
Acenaphthene	0.5	mg/kg	< 0.5	< 0.5
Acenaphthylene	0.5	mg/kg	< 0.5	< 0.5
Anthracene	0.5	mg/kg	< 0.5	< 0.5
Benz(a)anthracene	0.5	mg/kg	< 0.5	< 0.5
Benzo(a)pyrene	0.5	mg/kg	< 0.5	< 0.5
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	< 0.5	< 0.5
Benzo(g.h.i)perylene	0.5	mg/kg	< 0.5	< 0.5
Benzo(k)fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Chrysene	0.5	mg/kg	< 0.5	< 0.5
Dibenz(a.h)anthracene	0.5	mg/kg	< 0.5	< 0.5
Fluoranthene	0.5	mg/kg	< 0.5	< 0.5
Fluorene	0.5	mg/kg	< 0.5	< 0.5
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	< 0.5	< 0.5
Naphthalene	0.5	mg/kg	< 0.5	< 0.5
Phenanthrene	0.5	mg/kg	< 0.5	< 0.5
Pyrene	0.5	mg/kg	< 0.5	< 0.5
Total PAH*	0.5	mg/kg	< 0.5	< 0.5
2-Fluorobiphenyl (surr.)	1	%	94	99
p-Terphenyl-d14 (surr.)	1	%	105	110
Heavy Metals				
Arsenic	2	mg/kg	15	38
Cadmium	0.4	mg/kg	< 0.4	< 0.4
Chromium	5	mg/kg	23	31
Copper	5	mg/kg	23	55
Lead	5	mg/kg	23	39
Mercury	0.1	mg/kg	< 0.1	< 0.1
Nickel	5	mg/kg	11	26
Zinc	5	mg/kg	47	130

Client Sample ID			SED03	SED04
Sample Matrix			Soil	Soil
Eurofins Sample No.			S20-No32148	S20-No32149
Date Sampled			Nov 17, 2020	Nov 17, 2020
Test/Reference	LOR	Unit		
% Moisture	1	%	31	34

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Nov 19, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Polychlorinated Biphenyls	Sydney	Nov 19, 2020	28 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Clay	Brisbane	Nov 23, 2020	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Nov 19, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Organochlorine Pesticides	Sydney	Nov 19, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
% Moisture	Sydney	Nov 18, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Melbourne	Nov 20, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Nov 20, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

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Order No.:
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Received: Nov 18, 2020 6:58 PM
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Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP105_0-1.0	Nov 16, 2020		Soil	S20-No32081		X														
2	TP105_0.6-0.7	Nov 16, 2020		Soil	S20-No32082								X					X		X	
3	TP105A_0-1.0	Nov 16, 2020		Soil	S20-No32083		X														
4	TP106_0-1.0	Nov 16, 2020		Soil	S20-No32084		X														
5	TP106_0.2-0.3	Nov 16, 2020		Soil	S20-No32085													X		X	
6	TP106A_0-1.0	Nov 16, 2020		Soil	S20-No32086		X														
7	TP106A_0.6-0.7	Nov 16, 2020		Soil	S20-No32087							X						X		X	
8	TP107_0-1.0	Nov 16, 2020		Soil	S20-No32088		X														

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP107_0.2-0.3	Nov 16, 2020		Soil	S20-No32089							X						X		X	
10	TP107_1.4-1.5	Nov 16, 2020		Soil	S20-No32090						X					X		X			
11	TP108_0-1.0	Nov 16, 2020		Soil	S20-No32091		X														
12	TP108_0.6-0.7	Nov 16, 2020		Soil	S20-No32092													X		X	
13	TP108A_0.2-0.3	Nov 16, 2020		Soil	S20-No32093	X				X		X	X					X	X	X	
14	TP109_0-1.0	Nov 16, 2020		Soil	S20-No32094		X														
15	TP109_0.2-0.3	Nov 16, 2020		Soil	S20-No32095						X					X		X			
16	TP109_0.6-0.7	Nov 16, 2020		Soil	S20-No32096							X	X					X		X	
17	TP110_0-1.0	Nov 16, 2020		Soil	S20-No32097		X														
18	TP110_0.6-0.7	Nov 16, 2020		Soil	S20-No32098													X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP110_1.4-1.5	Nov 16, 2020		Soil	S20-No32099													X		X	
20	TP111_0-1.0	Nov 16, 2020		Soil	S20-No32100		X														
21	TP111_0.2-0.3	Nov 16, 2020		Soil	S20-No32101													X		X	
22	TP112_0-0.6	Nov 16, 2020		Soil	S20-No32102		X														
23	TP112_0.6-1.0	Nov 16, 2020		Soil	S20-No32103		X														
24	TP112_0.2-0.3	Nov 16, 2020		Soil	S20-No32104													X		X	
25	TP113_0-1.0	Nov 16, 2020		Soil	S20-No32105			X													
26	TP113_0.2-0.3	Nov 16, 2020		Soil	S20-No32106			X													
27	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32107		X														
28	TP114_0.2-0.3	Nov 16, 2020		Soil	S20-No32108						X					X		X			
29	TP115_0-1.0	Nov 16, 2020		Soil	S20-No32109		X														

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP115_0.2-0.3	Nov 16, 2020		Soil	S20-No32110													X		X	
31	TP116_0-1.0	Nov 16, 2020		Soil	S20-No32111		X														
32	TP116_0.5-0.6	Nov 16, 2020		Soil	S20-No32112							X	X					X		X	
33	TP116_0.9-1.0	Nov 16, 2020		Soil	S20-No32113						X					X		X			
34	TP118_0-0.1	Nov 16, 2020		Soil	S20-No32114		X					X	X					X		X	
35	TP120_0-0.1	Nov 16, 2020		Soil	S20-No32115		X				X	X				X		X			
36	TP122_0-0.1	Nov 16, 2020		Soil	S20-No32116						X	X				X		X			
37	TP124_0.4-0.5	Nov 16, 2020		Soil	S20-No32117		X														
38	TP126_0.4-0.5	Nov 16, 2020		Soil	S20-No32118		X														
39	TP128A_0-0.1	Nov 16, 2020		Soil	S20-No32119		X														
40	TP02_0-0.1	Nov 17, 2020		Soil	S20-No32120							X						X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
41	TP07_0-0.1	Nov 17, 2020		Soil	S20-No32121						X					X		X			
42	TP25_0.5-0.6	Nov 17, 2020		Soil	S20-No32122		X											X		X	
43	TP26_0-0.1	Nov 17, 2020		Soil	S20-No32123		X				X					X		X			
44	TP27_0-0.1	Nov 17, 2020		Soil	S20-No32124		X														
45	TP34_0-0.1	Nov 17, 2020		Soil	S20-No32125							X						X			
46	TP48_0-0.1	Nov 17, 2020		Soil	S20-No32126		X														
47	TP61_0-0.1	Nov 17, 2020		Soil	S20-No32127							X						X			
48	TP65_0-0.1	Nov 17, 2020		Soil	S20-No32128		X					X						X		X	
49	TP69_0.3-0.4	Nov 17, 2020		Soil	S20-No32129						X					X		X			
50	TP76_0.3-0.4	Nov 17, 2020		Soil	S20-No32130						X					X		X			
51	TP82_0-0.1	Nov 17, 2020		Soil	S20-No32131		X				X					X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
52	TP88_0-0.1	Nov 17, 2020		Soil	S20-No32132							X						X			
53	TP90_0-0.1	Nov 17, 2020		Soil	S20-No32133		X				X	X				X		X			
54	TP92_0-0.1	Nov 17, 2020		Soil	S20-No32134							X						X			
55	TP98_0.5-0.6	Nov 17, 2020		Soil	S20-No32135						X					X		X			
56	TP128_0-1.0	Nov 17, 2020		Soil	S20-No32136		X														
57	TP128_0-0.1	Nov 17, 2020		Soil	S20-No32137		X														
58	TP197_0-0.1	Nov 17, 2020		Soil	S20-No32138		X									X		X			
59	QC01	Nov 16, 2020		Soil	S20-No32139		X														
60	QC02	Nov 16, 2020		Soil	S20-No32140													X		X	
61	QC03	Nov 16, 2020		Soil	S20-No32141		X														
62	QC04	Nov 16, 2020		Soil	S20-No32142							X	X					X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
63	QC05	Nov 17, 2020		Soil	S20-No32143		X				X					X		X			
64	TS	Nov 13, 2020		Water	S20-No32144																X
65	TB	Nov 13, 2020		Water	S20-No32145												X				
66	SED01	Nov 17, 2020		Soil	S20-No32146							X	X					X		X	
67	SED02	Nov 17, 2020		Soil	S20-No32147							X	X					X		X	
68	SED03	Nov 17, 2020		Soil	S20-No32148						X					X		X			
69	SED04	Nov 17, 2020		Soil	S20-No32149						X					X		X			
70	TP105_0.2-0.3	Nov 16, 2020		Soil	S20-No32150				X												
71	TP105_1.0-1.1	Nov 16, 2020		Soil	S20-No32151				X												
72	TP105A_0.4-0.5	Nov 16, 2020		Soil	S20-No32152				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP105A_1.3-1.4	Nov 16, 2020		Soil	S20-No32153				X												
74	TP106_0.6-0.7	Nov 16, 2020		Soil	S20-No32154				X												
75	TP106_1.2-1.3	Nov 16, 2020		Soil	S20-No32155				X												
76	TP106A_0.2-0.3	Nov 16, 2020		Soil	S20-No32156				X												
77	TP106A_1.0-1.1	Nov 16, 2020		Soil	S20-No32157				X												
78	TP107_0.6-0.7	Nov 16, 2020		Soil	S20-No32158				X												
79	TP107_1.0-1.0	Nov 16, 2020		Soil	S20-No32159				X												
80	TP108_0.2-0.3	Nov 16, 2020		Soil	S20-No32160				X												
81	TP108A_0-0.9	Nov 16, 2020		Soil	S20-No32161				X												

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
82	TP108A_0.6-0.7	Nov 16, 2020		Soil	S20-No32162				X												
83	TP108A_0.9-1.0	Nov 16, 2020		Soil	S20-No32163				X												
84	TP109_1.2-1.3	Nov 16, 2020		Soil	S20-No32164				X												
85	TP110_0.2-0.3	Nov 16, 2020		Soil	S20-No32165				X												
86	TP111_0.6-0.7	Nov 16, 2020		Soil	S20-No32166				X												
87	TP111_1.0-1.1	Nov 16, 2020		Soil	S20-No32167				X												
88	TP112_0.6-0.7	Nov 16, 2020		Soil	S20-No32168				X												
89	TP112_1.0-1.1	Nov 16, 2020		Soil	S20-No32169				X												
90	TP113_0.6-0.7	Nov 16, 2020		Soil	S20-No32170			X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
91	TP113_1.0-1.1	Nov 16, 2020		Soil	S20-No32171			X													
92	TP114_0.6-0.7	Nov 16, 2020		Soil	S20-No32172				X												
93	TP115_0.6-0.7	Nov 16, 2020		Soil	S20-No32173				X												
94	TP115_1.1-1.2	Nov 16, 2020		Soil	S20-No32174				X												
95	TP116_1.1-1.2	Nov 16, 2020		Soil	S20-No32175				X												
96	TP118_0.4-0.5	Nov 16, 2020		Soil	S20-No32176		X														
97	TP118_0.6-0.7	Nov 16, 2020		Soil	S20-No32177				X												
98	TP118_1.2-1.3	Nov 16, 2020		Soil	S20-No32178				X												
99	TP119_0-0.1	Nov 16, 2020		Soil	S20-No32179				X												
100	TP119_0.4-0.5	Nov 16, 2020		Soil	S20-No32180				X												
101	TP119_0.6-0.7	Nov 16, 2020		Soil	S20-No32181				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
102	TP119_1.2-1.3	Nov 16, 2020		Soil	S20-No32182				X												
103	TP120_0.5-0.6	Nov 16, 2020		Soil	S20-No32183				X												
104	TP120_1.0-1.1	Nov 16, 2020		Soil	S20-No32184				X												
105	TP121_0-0.1	Nov 16, 2020		Soil	S20-No32185				X												
106	TP121_0.5-0.6	Nov 16, 2020		Soil	S20-No32186		X														
107	TP121_1.0-1.1	Nov 16, 2020		Soil	S20-No32187				X												
108	TP122_0.5-0.6	Nov 16, 2020		Soil	S20-No32188				X												
109	TP122_1.0-1.1	Nov 16, 2020		Soil	S20-No32189				X												
110	TP123_0.4-0.5	Nov 16, 2020		Soil	S20-No32190				X												
111	TP123_0.6-0.7	Nov 16, 2020		Soil	S20-No32191				X												
112	TP123_1.2-1.3	Nov 16, 2020		Soil	S20-No32192				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
113	TP124_1.0-1.1	Nov 16, 2020		Soil	S20-No32193				X												
114	TP124A_0.2-0.3	Nov 16, 2020		Soil	S20-No32194				X												
115	TP124A_0.4-0.5	Nov 16, 2020		Soil	S20-No32195				X												
116	TP125_0.4-0.5	Nov 16, 2020		Soil	S20-No32196				X												
117	TP125_1.2-1.3	Nov 16, 2020		Soil	S20-No32197				X												
118	TP126_1.2-1.3	Nov 16, 2020		Soil	S20-No32198				X												
119	TP127_0.4-0.5	Nov 16, 2020		Soil	S20-No32199				X												
120	TP127_1.2-1.3	Nov 16, 2020		Soil	S20-No32200				X												
121	TP128A_0.4-0.5	Nov 16, 2020		Soil	S20-No32201				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
122	TP129A_0.2-0.3	Nov 16, 2020		Soil	S20-No32202				X												
123	TP129A_0.5-0.6	Nov 16, 2020		Soil	S20-No32203				X												
124	TP01_0-0.1	Nov 17, 2020		Soil	S20-No32204				X												
125	TP02_0.2-0.3	Nov 17, 2020		Soil	S20-No32205				X												
126	TP03_0-0.1	Nov 17, 2020		Soil	S20-No32206				X												
127	TP03_0.1-0.2	Nov 17, 2020		Soil	S20-No32207				X												
128	TP04_0-0.1	Nov 17, 2020		Soil	S20-No32208				X												
129	TP04_0.3-0.4	Nov 17, 2020		Soil	S20-No32209				X												
130	TP05_0-0.1	Nov 17, 2020		Soil	S20-No32210				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
131	TP05_0.2-0.3	Nov 17, 2020		Soil	S20-No32211				X												
132	TP06_0-0.1	Nov 17, 2020		Soil	S20-No32212				X												
133	TP06_0.4-0.5	Nov 17, 2020		Soil	S20-No32213				X												
134	TP07_0.2-0.3	Nov 17, 2020		Soil	S20-No32214				X												
135	TP13_0-0.1	Nov 17, 2020		Soil	S20-No32215				X												
136	TP13_0.5-0.6	Nov 17, 2020		Soil	S20-No32216				X												
137	TP13_1.0-1.1	Nov 17, 2020		Soil	S20-No32217				X												
138	TP24_0-0.1	Nov 17, 2020		Soil	S20-No32218				X												
139	TP24_0.5-0.6	Nov 17, 2020		Soil	S20-No32219				X												
140	TP24_1.2-1.3	Nov 17, 2020		Soil	S20-No32220				X												
141	TP25_0-0.1	Nov 17, 2020		Soil	S20-No32221				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
142	TP25_0.9-1.0	Nov 17, 2020		Soil	S20-No32222				X												
143	TP26_0.5-0.6	Nov 17, 2020		Soil	S20-No32223				X												
144	TP26_1.2-1.3	Nov 17, 2020		Soil	S20-No32224				X												
145	TP27_1.2-1.3	Nov 17, 2020		Soil	S20-No32225				X												
146	TP34_0.2-0.3	Nov 17, 2020		Soil	S20-No32226				X												
147	TP41_0-0.1	Nov 17, 2020		Soil	S20-No32227				X												
148	TP41_0.2-0.3	Nov 17, 2020		Soil	S20-No32228				X												
149	TP48_0.2-0.3	Nov 17, 2020		Soil	S20-No32229				X												
150	TP62_0-0.1	Nov 17, 2020		Soil	S20-No32230				X												
151	TP64_0-0.1	Nov 17, 2020		Soil	S20-No32231				X												
152	TP64_0.2-0.3	Nov 17, 2020		Soil	S20-No32232				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
153	TP65_0.2-0.3	Nov 17, 2020		Soil	S20-No32233				X												
154	TP66_0-0.1	Nov 17, 2020		Soil	S20-No32234				X												
155	TP66_0.2-0.3	Nov 17, 2020		Soil	S20-No32235				X												
156	TP67_0-0.1	Nov 17, 2020		Soil	S20-No32236				X												
157	TP67_0.2-0.3	Nov 17, 2020		Soil	S20-No32237				X												
158	TP68_0-0.1	Nov 17, 2020		Soil	S20-No32238				X												
159	TP68_0.2-0.3	Nov 17, 2020		Soil	S20-No32239				X												
160	TP69_0-0.1	Nov 17, 2020		Soil	S20-No32240				X												
161	TP70_0-0.1	Nov 17, 2020		Soil	S20-No32241				X												
162	TP71_0-0.1	Nov 17, 2020		Soil	S20-No32242				X												
163	TP71_0.2-0.3	Nov 17, 2020		Soil	S20-No32243				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
164	TP73_0-0.1	Nov 17, 2020		Soil	S20-No32244				X												
165	TP73_0.4-0.5	Nov 17, 2020		Soil	S20-No32245				X												
166	TP74_0-0.1	Nov 17, 2020		Soil	S20-No32246				X												
167	TP74_0.2-0.3	Nov 17, 2020		Soil	S20-No32247				X												
168	TP74_0.4-0.5	Nov 17, 2020		Soil	S20-No32248				X												
169	TP75_0-0.1	Nov 17, 2020		Soil	S20-No32249				X												
170	TP75_0.2-0.3	Nov 17, 2020		Soil	S20-No32250				X												
171	TP76_0-0.1	Nov 17, 2020		Soil	S20-No32251				X												
172	TP77_0-0.1	Nov 17, 2020		Soil	S20-No32252				X												
173	TP77_0.2-0.3	Nov 17, 2020		Soil	S20-No32253				X												
174	TP78_0-0.1	Nov 17, 2020		Soil	S20-No32254				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
175	TP78_0.5-0.6	Nov 17, 2020		Soil	S20-No32255				X												
176	TP78_0.9-1.0	Nov 17, 2020		Soil	S20-No32256				X												
177	TP79_0-0.1	Nov 17, 2020		Soil	S20-No32257				X												
178	TP79_0.5-0.6	Nov 17, 2020		Soil	S20-No32258				X												
179	TP80_0-0.1	Nov 17, 2020		Soil	S20-No32259				X												
180	TP80_0.2-0.3	Nov 17, 2020		Soil	S20-No32260				X												
181	TP81_0-0.1	Nov 17, 2020		Soil	S20-No32261				X												
182	TP81_0.3-0.4	Nov 17, 2020		Soil	S20-No32262				X												
183	TP82_0.2-0.3	Nov 17, 2020		Soil	S20-No32263				X												
184	TP83_0-0.1	Nov 17, 2020		Soil	S20-No32264				X												
185	TP83_0.2-0.3	Nov 17, 2020		Soil	S20-No32265				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
186	TP84_0-0.1	Nov 17, 2020		Soil	S20-No32266				X												
187	TP84_0.5-0.6	Nov 17, 2020		Soil	S20-No32267				X												
188	TP85_0-0.1	Nov 17, 2020		Soil	S20-No32268				X												
189	TP85_0.5-0.6	Nov 17, 2020		Soil	S20-No32269				X												
190	TP86_0-0.1	Nov 17, 2020		Soil	S20-No32270				X												
191	TP86_0.5-0.6	Nov 17, 2020		Soil	S20-No32271				X												
192	TP87_0-0.1	Nov 17, 2020		Soil	S20-No32272				X												
193	TP87_0.3-0.4	Nov 17, 2020		Soil	S20-No32273				X												
194	TP88_0.2-0.3	Nov 17, 2020		Soil	S20-No32274				X												
195	TP89_0-0.1	Nov 17, 2020		Soil	S20-No32275				X												
196	TP89_0.3-0.4	Nov 17, 2020		Soil	S20-No32276				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
197	TP90_0.3-0.4	Nov 17, 2020		Soil	S20-No32277				X												
198	TP91_0-0.1	Nov 17, 2020		Soil	S20-No32278				X												
199	TP91_0.5-0.6	Nov 17, 2020		Soil	S20-No32279				X												
200	TP92_0.5-0.6	Nov 17, 2020		Soil	S20-No32280				X												
201	TP93_0-0.1	Nov 17, 2020		Soil	S20-No32281				X												
202	TP93_0.3-0.4	Nov 17, 2020		Soil	S20-No32282				X												
203	TP94_0-0.1	Nov 17, 2020		Soil	S20-No32283				X												
204	TP94_0.3-0.4	Nov 17, 2020		Soil	S20-No32284				X												
205	TP95_0-0.1	Nov 17, 2020		Soil	S20-No32285				X												
206	TP95_0.4-0.5	Nov 17, 2020		Soil	S20-No32286				X												
207	TP96_0-0.1	Nov 17, 2020		Soil	S20-No32287				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
208	TP96_0.5-0.6	Nov 17, 2020		Soil	S20-No32288				X												
209	TP98_0-0.1	Nov 17, 2020		Soil	S20-No32289				X												
210	TP98_1.0-1.1	Nov 17, 2020		Soil	S20-No32290				X												
211	TP99_0-0.1	Nov 17, 2020		Soil	S20-No32291				X												
212	TP99_0.5-0.6	Nov 17, 2020		Soil	S20-No32292				X												
213	TP100_0-0.1	Nov 17, 2020		Soil	S20-No32293				X												
214	TP100_0.5-0.6	Nov 17, 2020		Soil	S20-No32294				X												
215	TP101_0-0.1	Nov 17, 2020		Soil	S20-No32295				X												
216	TP101_0.5-0.6	Nov 17, 2020		Soil	S20-No32296				X												
217	TP117_0-0.1	Nov 17, 2020		Soil	S20-No32297				X												
218	TP117_0.5-0.6	Nov 17, 2020		Soil	S20-No32298				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
219	TP128_0.5-0.6	Nov 17, 2020		Soil	S20-No32299				X												
220	TP128_1.2-1.3	Nov 17, 2020		Soil	S20-No32300				X												
221	TP129_0-0.6	Nov 17, 2020		Soil	S20-No32301				X												
222	TP129_0-0.1	Nov 17, 2020		Soil	S20-No32302				X												
223	TP129_0.5-0.6	Nov 17, 2020		Soil	S20-No32303				X												
224	TP129_0.9-1.0	Nov 17, 2020		Soil	S20-No32304				X												
225	TP197_0.5-0.6	Nov 17, 2020		Soil	S20-No32305				X												
226	TP111_0.2-0.3	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No32306						X			X		X					
227	TP111_0.2-0.3	Nov 16, 2020		US Leachate	S20-No32307						X				X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
228	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32412				X												
229	TP114A_0.2-0.3	Nov 16, 2020		Soil	S20-No32413				X												
230	TP114A_0.6-0.7	Nov 16, 2020		Soil	S20-No32414				X												
231	TP114A_1.0-1.1	Nov 16, 2020		Soil	S20-No32415				X												
232	TP114_1.0-1.1	Nov 16, 2020		Soil	S20-No32416				X												
233	TP55_0-0.1	Nov 16, 2020		Soil	S20-No32417				X												
234	TP55_0.2-0.3	Nov 16, 2020		Soil	S20-No32418				X												
Test Counts						1	34	4	159	1	18	18	8	1	1	19	1	42	1	21	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram | **mg/L:** milligrams per litre | **ug/L:** micrograms per litre

ppm: Parts per million | **ppb:** Parts per billion | **%:** Percentage

org/100mL: Organisms per 100 millilitres | **NTU:** Nephelometric Turbidity Units | **MPN/100mL:** Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/kg	< 20			20	Pass	
TRH C10-C14	mg/kg	< 20			20	Pass	
TRH C15-C28	mg/kg	< 50			50	Pass	
TRH C29-C36	mg/kg	< 50			50	Pass	
Method Blank							
BTEX							
Benzene	mg/kg	< 0.1			0.1	Pass	
Toluene	mg/kg	< 0.1			0.1	Pass	
Ethylbenzene	mg/kg	< 0.1			0.1	Pass	
m&p-Xylenes	mg/kg	< 0.2			0.2	Pass	
o-Xylene	mg/kg	< 0.1			0.1	Pass	
Xylenes - Total*	mg/kg	< 0.3			0.3	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/kg	< 0.5			0.5	Pass	
TRH C6-C10	mg/kg	< 20			20	Pass	
TRH >C10-C16	mg/kg	< 50			50	Pass	
TRH >C16-C34	mg/kg	< 100			100	Pass	
TRH >C34-C40	mg/kg	< 100			100	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/kg	< 0.5			0.5	Pass	
Aroclor-1221	mg/kg	< 0.1			0.1	Pass	
Aroclor-1232	mg/kg	< 0.5			0.5	Pass	
Aroclor-1242	mg/kg	< 0.5			0.5	Pass	
Aroclor-1248	mg/kg	< 0.5			0.5	Pass	
Aroclor-1254	mg/kg	< 0.5			0.5	Pass	
Aroclor-1260	mg/kg	< 0.5			0.5	Pass	
Total PCB*	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	84			70-130	Pass	
TRH C10-C14	%	100			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	93			70-130	Pass	
Toluene	%	95			70-130	Pass	
Ethylbenzene	%	94			70-130	Pass	
m&p-Xylenes	%	95			70-130	Pass	
o-Xylene	%	97			70-130	Pass	
Xylenes - Total*	%	96			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	94			70-130	Pass	
TRH C6-C10	%	83			70-130	Pass	
TRH >C10-C16	%	98			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	103			70-130	Pass	
Acenaphthylene	%	99			70-130	Pass	
Anthracene	%	120			70-130	Pass	
Fluorene	%	104			70-130	Pass	
Naphthalene	%	105			70-130	Pass	
Phenanthrene	%	74			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	105			70-130	Pass	
Aroclor-1260	%	123			70-130	Pass	
Total PCB*	%	101			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	98			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	96			80-120	Pass	
Copper	%	98			80-120	Pass	
Lead	%	100			80-120	Pass	
Mercury	%	104			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	101			80-120	Pass	
LCS - % Recovery							
Organochlorine Pesticides							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Chlordanes - Total	%	80			70-130	Pass	
4.4'-DDD	%	89			70-130	Pass	
4.4'-DDE	%	73			70-130	Pass	
4.4'-DDT	%	97			70-130	Pass	
a-BHC	%	82			70-130	Pass	
Aldrin	%	74			70-130	Pass	
b-BHC	%	82			70-130	Pass	
d-BHC	%	81			70-130	Pass	
Dieldrin	%	77			70-130	Pass	
Endosulfan I	%	82			70-130	Pass	
Endosulfan II	%	94			70-130	Pass	
Endosulfan sulphate	%	89			70-130	Pass	
Endrin	%	80			70-130	Pass	
Endrin aldehyde	%	102			70-130	Pass	
Endrin ketone	%	96			70-130	Pass	
g-BHC (Lindane)	%	83			70-130	Pass	
Heptachlor	%	86			70-130	Pass	
Heptachlor epoxide	%	74			70-130	Pass	
Hexachlorobenzene	%	80			70-130	Pass	
Methoxychlor	%	93			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-No30792	NCP	%	118			70-130	Pass	
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-No30792	NCP	%	124			70-130	Pass	
Toluene	S20-No30792	NCP	%	120			70-130	Pass	
Ethylbenzene	S20-No30792	NCP	%	120			70-130	Pass	
m&p-Xylenes	S20-No30792	NCP	%	119			70-130	Pass	
o-Xylene	S20-No30792	NCP	%	122			70-130	Pass	
Xylenes - Total*	S20-No30792	NCP	%	120			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-No30792	NCP	%	117			70-130	Pass	
TRH C6-C10	S20-No30792	NCP	%	111			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Copper	S20-No32090	CP	%	120			75-125	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Fluoranthene	W20-No22754	NCP	%	101			70-130	Pass	
Pyrene	W20-No22754	NCP	%	102			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C10-C14	S20-No32104	CP	%	119			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
TRH >C10-C16	S20-No32104	CP	%	118			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-No32112	CP	%	111			70-130	Pass	
Acenaphthylene	S20-No32112	CP	%	106			70-130	Pass	
Anthracene	S20-No32112	CP	%	114			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benz(a)anthracene	S20-No32112	CP	%	128			70-130	Pass	
Benzo(a)pyrene	S20-No32112	CP	%	130			70-130	Pass	
Benzo(b&j)fluoranthene	S20-No32112	CP	%	116			70-130	Pass	
Benzo(g.h.i)perylene	S20-No32112	CP	%	117			70-130	Pass	
Benzo(k)fluoranthene	S20-No32112	CP	%	123			70-130	Pass	
Chrysene	S20-No32112	CP	%	127			70-130	Pass	
Dibenz(a.h)anthracene	S20-No32112	CP	%	124			70-130	Pass	
Fluorene	S20-No32112	CP	%	115			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-No32112	CP	%	127			70-130	Pass	
Naphthalene	S20-No32112	CP	%	108			70-130	Pass	
Phenanthrene	S20-No32112	CP	%	122			70-130	Pass	
Spike - % Recovery									
Polychlorinated Biphenyls				Result 1					
Aroclor-1016	S20-No32112	CP	%	88			70-130	Pass	
Aroclor-1260	S20-No32112	CP	%	95			70-130	Pass	
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-No32112	CP	%	106			70-130	Pass	
4.4'-DDD	S20-No32112	CP	%	94			70-130	Pass	
4.4'-DDE	S20-No32112	CP	%	104			70-130	Pass	
4.4'-DDT	S20-No32112	CP	%	84			70-130	Pass	
a-BHC	S20-No32112	CP	%	99			70-130	Pass	
Aldrin	S20-No32112	CP	%	117			70-130	Pass	
b-BHC	S20-No32112	CP	%	93			70-130	Pass	
d-BHC	S20-No32112	CP	%	96			70-130	Pass	
Dieldrin	S20-No32112	CP	%	110			70-130	Pass	
Endosulfan I	S20-No32112	CP	%	97			70-130	Pass	
Endosulfan II	S20-No32112	CP	%	104			70-130	Pass	
Endosulfan sulphate	S20-No32112	CP	%	97			70-130	Pass	
Endrin	S20-No32112	CP	%	117			70-130	Pass	
Endrin aldehyde	S20-No32112	CP	%	128			70-130	Pass	
Endrin ketone	S20-No32112	CP	%	102			70-130	Pass	
g-BHC (Lindane)	S20-No32112	CP	%	115			70-130	Pass	
Heptachlor	S20-No32112	CP	%	87			70-130	Pass	
Heptachlor epoxide	S20-No32112	CP	%	91			70-130	Pass	
Hexachlorobenzene	S20-No32112	CP	%	107			70-130	Pass	
Methoxychlor	S20-No32112	CP	%	82			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No32128	CP	%	117			75-125	Pass	
Cadmium	S20-No32128	CP	%	119			75-125	Pass	
Chromium	S20-No32128	CP	%	115			75-125	Pass	
Copper	S20-No32128	CP	%	111			75-125	Pass	
Lead	S20-No32128	CP	%	113			75-125	Pass	
Mercury	S20-No32128	CP	%	108			75-125	Pass	
Nickel	S20-No32128	CP	%	113			75-125	Pass	
Zinc	S20-No32128	CP	%	112			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No32087	CP	%	7.6	9.8	26	30%	Pass	

Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No32089	CP	mg/kg	3.8	3.1	18	30%	Pass	
Cadmium	S20-No32089	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No32089	CP	mg/kg	8.9	8.0	11	30%	Pass	
Copper	S20-No32089	CP	mg/kg	8.0	8.7	8.0	30%	Pass	
Lead	S20-No32089	CP	mg/kg	35	33	5.0	30%	Pass	
Mercury	S20-No32089	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No32089	CP	mg/kg	< 5	< 5	<1	30%	Pass	
Zinc	S20-No32089	CP	mg/kg	23	21	12	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(g.h.i)perylene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-No32090	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S20-No24637	NCP	pH Units	6.0	5.9	Pass	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Toxaphene	W20-No22753	NCP	mg/kg	< 1	< 1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-No32101	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C10-C14	S20-No32101	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-No32101	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-No32101	CP	mg/kg	74	< 50	59	30%	Fail	Q15
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-No32101	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Toluene	S20-No32101	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Ethylbenzene	S20-No32101	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
m&p-Xylenes	S20-No32101	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	
o-Xylene	S20-No32101	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Xylenes - Total*	S20-No32101	CP	mg/kg	< 0.3	< 0.3	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-No32101	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
TRH C6-C10	S20-No32101	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH >C10-C16	S20-No32101	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-No32101	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-No32101	CP	mg/kg	< 100	< 100	<1	30%	Pass	

Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No32104	CP	%	8.3	7.7	7.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No32108	CP	mg/kg	6.1	5.9	4.0	30%	Pass	
Cadmium	S20-No32108	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No32108	CP	mg/kg	15	16	3.0	30%	Pass	
Copper	S20-No32108	CP	mg/kg	22	21	5.0	30%	Pass	
Lead	S20-No32108	CP	mg/kg	18	16	12	30%	Pass	
Mercury	S20-No32108	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No32108	CP	mg/kg	19	16	15	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No32122	CP	%	19	20	4.0	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No32123	CP	mg/kg	13	11	20	30%	Pass	
Cadmium	S20-No32123	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No32123	CP	mg/kg	39	29	29	30%	Pass	
Copper	S20-No32123	CP	mg/kg	21	15	30	30%	Pass	
Lead	S20-No32123	CP	mg/kg	29	24	19	30%	Pass	
Mercury	S20-No32123	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No32123	CP	mg/kg	16	9.3	51	30%	Fail	Q15
Zinc	S20-No32123	CP	mg/kg	33	20	51	30%	Fail	Q15
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No32134	CP	%	19	19	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No32143	CP	mg/kg	13	14	6.0	30%	Pass	
Cadmium	S20-No32143	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No32143	CP	mg/kg	27	28	6.0	30%	Pass	
Copper	S20-No32143	CP	mg/kg	24	25	3.0	30%	Pass	
Lead	S20-No32143	CP	mg/kg	16	19	12	30%	Pass	
Mercury	S20-No32143	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No32143	CP	mg/kg	8.9	10	12	30%	Pass	
Zinc	S20-No32143	CP	mg/kg	29	35	17	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C10-C14	S20-No32146	CP	mg/kg	< 20	< 20	<1	30%	Pass	
TRH C15-C28	S20-No32146	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH C29-C36	S20-No32146	CP	mg/kg	< 50	< 50	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
TRH >C10-C16	S20-No32146	CP	mg/kg	< 50	< 50	<1	30%	Pass	
TRH >C16-C34	S20-No32146	CP	mg/kg	< 100	< 100	<1	30%	Pass	
TRH >C34-C40	S20-No32146	CP	mg/kg	< 100	< 100	<1	30%	Pass	
Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Acenaphthene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Acenaphthylene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Anthracene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benz(a)anthracene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(a)pyrene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(b&j)fluoranthene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD			
Benzo(g.h.i)perylene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Benzo(k)fluoranthene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Chrysene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Dibenz(a.h)anthracene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluoranthene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Fluorene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Indeno(1.2.3-cd)pyrene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Naphthalene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Phenanthrene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Pyrene	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Polychlorinated Biphenyls				Result 1	Result 2	RPD			
Aroclor-1016	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1221	S20-No32146	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Aroclor-1232	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1242	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1248	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1254	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Aroclor-1260	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Total PCB*	S20-No32146	CP	mg/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-No32146	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-No32146	CP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-No32146	CP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)
Scott Beddoes	Senior Analyst-Inorganic (VIC)

Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	757742-AID
Project Name	MAMRE RD
Project ID	59884
Received Date	Nov 18, 2020
Date Reported	Nov 23, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Project Name MAMRE RD
Project ID 59884
Date Sampled Nov 16, 2020 to Nov 17, 2020
Report 757742-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP105_0-1.0	20-No32081	Nov 16, 2020	Approximate Sample 771g Sample consisted of: Brown coarse-grained clayey soil, brick fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP105A_0-1.0	20-No32083	Nov 16, 2020	Approximate Sample 762g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP106_0-1.0	20-No32084	Nov 16, 2020	Approximate Sample 737g Sample consisted of: Brown coarse-grained soil, brick, cement and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP106A_0-1.0	20-No32086	Nov 16, 2020	Approximate Sample 736g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP107_0-1.0	20-No32088	Nov 16, 2020	Approximate Sample 839g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP108_0-1.0	20-No32091	Nov 16, 2020	Approximate Sample 737g Sample consisted of: Brown coarse-grained clayey soil, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP109_0-1.0	20-No32094	Nov 16, 2020	Approximate Sample 709g Sample consisted of: Brown coarse-grained clayey soil, bitumen, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP110_0-1.0	20-No32097	Nov 16, 2020	Approximate Sample 663g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP111_0-1.0	20-No32100	Nov 16, 2020	Approximate Sample 839g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP112_0-0.6	20-No32102	Nov 16, 2020	Approximate Sample 699g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP112_0.6-1.0	20-No32103	Nov 16, 2020	Approximate Sample 749g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP114_0-1.0	20-No32107	Nov 16, 2020	Approximate Sample 653g Sample consisted of: Brown coarse-grained clayey soil, bitumen fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP115_0-1.0	20-No32109	Nov 16, 2020	Approximate Sample 756g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP116_0-1.0	20-No32111	Nov 16, 2020	Approximate Sample 714g Sample consisted of: Brown coarse-grained clayey soil, bitumen fragments and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP118_0-0.1	20-No32114	Nov 16, 2020	Approximate Sample 743g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP120_0-0.1	20-No32115	Nov 16, 2020	Approximate Sample 765g Sample consisted of: Brown coarse-grained soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP124_0.4-0.5	20-No32117	Nov 16, 2020	Approximate Sample 783g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP126_0.4-0.5	20-No32118	Nov 16, 2020	Approximate Sample 830g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP128A_0-0.1	20-No32119	Nov 16, 2020	Approximate Sample 648g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP25_0.5-0.6	20-No32122	Nov 17, 2020	Approximate Sample 493g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP26_0-0.1	20-No32123	Nov 17, 2020	Approximate Sample 773g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP27_0-0.1	20-No32124	Nov 17, 2020	Approximate Sample 596g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP48_0-0.1	20-No32126	Nov 17, 2020	Approximate Sample 582g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP65_0-0.1	20-No32128	Nov 17, 2020	Approximate Sample 560g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP82_0-0.1	20-No32131	Nov 17, 2020	Approximate Sample 689g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP90_0-0.1	20-No32133	Nov 17, 2020	Approximate Sample 558g Sample consisted of: Brown coarse-grained clayey soil, rocks and organic debris	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP128_0-1.0	20-No32136	Nov 17, 2020	Approximate Sample 661g Sample consisted of: Brown coarse-grained clayey soil, cement, bitumen, brick and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP128_0-0.1	20-No32137	Nov 17, 2020	Approximate Sample 775g Sample consisted of: Brown coarse-grained clayey soil, cement, bitumen and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP197_0-0.1	20-No32138	Nov 17, 2020	Approximate Sample 656g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC01	20-No32139	Nov 16, 2020	Approximate Sample 754g Sample consisted of: Brown coarse-grained sandy soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC03	20-No32141	Nov 16, 2020	Approximate Sample 681g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
QC05	20-No32143	Nov 17, 2020	Approximate Sample 641g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP118_0.4-0.5	20-No32176	Nov 16, 2020	Approximate Sample 778g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP121_0.5-0.6	20-No32186	Nov 16, 2020	Approximate Sample 765g Sample consisted of: Brown coarse-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Nov 19, 2020	Indefinite

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP105_0-1.0	Nov 16, 2020		Soil	S20-No32081		X														
2	TP105_0.6-0.7	Nov 16, 2020		Soil	S20-No32082								X					X		X	
3	TP105A_0-1.0	Nov 16, 2020		Soil	S20-No32083		X														
4	TP106_0-1.0	Nov 16, 2020		Soil	S20-No32084		X														
5	TP106_0.2-0.3	Nov 16, 2020		Soil	S20-No32085													X		X	
6	TP106A_0-1.0	Nov 16, 2020		Soil	S20-No32086		X														
7	TP106A_0.6-0.7	Nov 16, 2020		Soil	S20-No32087							X						X		X	
8	TP107_0-1.0	Nov 16, 2020		Soil	S20-No32088		X														

eurofins | Environment Testing

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Address: Level 1, 50 Margaret St
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP107_0.2-0.3	Nov 16, 2020		Soil	S20-No32089							X						X		X	
10	TP107_1.4-1.5	Nov 16, 2020		Soil	S20-No32090						X					X		X			
11	TP108_0-1.0	Nov 16, 2020		Soil	S20-No32091		X														
12	TP108_0.6-0.7	Nov 16, 2020		Soil	S20-No32092													X		X	
13	TP108A_0.2-0.3	Nov 16, 2020		Soil	S20-No32093	X				X		X	X					X	X	X	
14	TP109_0-1.0	Nov 16, 2020		Soil	S20-No32094		X														
15	TP109_0.2-0.3	Nov 16, 2020		Soil	S20-No32095						X					X		X			
16	TP109_0.6-0.7	Nov 16, 2020		Soil	S20-No32096							X	X					X		X	
17	TP110_0-1.0	Nov 16, 2020		Soil	S20-No32097		X														
18	TP110_0.6-0.7	Nov 16, 2020		Soil	S20-No32098													X		X	

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Fax:

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Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP110_1.4-1.5	Nov 16, 2020		Soil	S20-No32099													X		X	
20	TP111_0-1.0	Nov 16, 2020		Soil	S20-No32100		X														
21	TP111_0.2-0.3	Nov 16, 2020		Soil	S20-No32101													X		X	
22	TP112_0-0.6	Nov 16, 2020		Soil	S20-No32102		X														
23	TP112_0.6-1.0	Nov 16, 2020		Soil	S20-No32103		X														
24	TP112_0.2-0.3	Nov 16, 2020		Soil	S20-No32104													X		X	
25	TP113_0-1.0	Nov 16, 2020		Soil	S20-No32105			X													
26	TP113_0.2-0.3	Nov 16, 2020		Soil	S20-No32106			X													
27	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32107		X														
28	TP114_0.2-0.3	Nov 16, 2020		Soil	S20-No32108						X					X		X			
29	TP115_0-1.0	Nov 16, 2020		Soil	S20-No32109		X														

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP115_0.2-0.3	Nov 16, 2020		Soil	S20-No32110													X		X	
31	TP116_0-1.0	Nov 16, 2020		Soil	S20-No32111		X														
32	TP116_0.5-0.6	Nov 16, 2020		Soil	S20-No32112							X	X					X		X	
33	TP116_0.9-1.0	Nov 16, 2020		Soil	S20-No32113						X					X		X			
34	TP118_0-0.1	Nov 16, 2020		Soil	S20-No32114		X					X	X					X		X	
35	TP120_0-0.1	Nov 16, 2020		Soil	S20-No32115		X				X	X				X		X			
36	TP122_0-0.1	Nov 16, 2020		Soil	S20-No32116						X	X				X		X			
37	TP124_0.4-0.5	Nov 16, 2020		Soil	S20-No32117		X														
38	TP126_0.4-0.5	Nov 16, 2020		Soil	S20-No32118		X														
39	TP128A_0-0.1	Nov 16, 2020		Soil	S20-No32119		X														
40	TP02_0-0.1	Nov 17, 2020		Soil	S20-No32120							X						X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
41	TP07_0-0.1	Nov 17, 2020		Soil	S20-No32121						X					X		X			
42	TP25_0.5-0.6	Nov 17, 2020		Soil	S20-No32122		X											X		X	
43	TP26_0-0.1	Nov 17, 2020		Soil	S20-No32123		X				X					X		X			
44	TP27_0-0.1	Nov 17, 2020		Soil	S20-No32124		X														
45	TP34_0-0.1	Nov 17, 2020		Soil	S20-No32125							X						X			
46	TP48_0-0.1	Nov 17, 2020		Soil	S20-No32126		X														
47	TP61_0-0.1	Nov 17, 2020		Soil	S20-No32127							X						X			
48	TP65_0-0.1	Nov 17, 2020		Soil	S20-No32128		X					X						X		X	
49	TP69_0.3-0.4	Nov 17, 2020		Soil	S20-No32129						X					X		X			
50	TP76_0.3-0.4	Nov 17, 2020		Soil	S20-No32130						X					X		X			
51	TP82_0-0.1	Nov 17, 2020		Soil	S20-No32131		X				X					X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
52	TP88_0-0.1	Nov 17, 2020		Soil	S20-No32132							X						X			
53	TP90_0-0.1	Nov 17, 2020		Soil	S20-No32133		X				X	X				X		X			
54	TP92_0-0.1	Nov 17, 2020		Soil	S20-No32134							X						X			
55	TP98_0.5-0.6	Nov 17, 2020		Soil	S20-No32135						X					X		X			
56	TP128_0-1.0	Nov 17, 2020		Soil	S20-No32136		X														
57	TP128_0-0.1	Nov 17, 2020		Soil	S20-No32137		X														
58	TP197_0-0.1	Nov 17, 2020		Soil	S20-No32138		X									X		X			
59	QC01	Nov 16, 2020		Soil	S20-No32139		X														
60	QC02	Nov 16, 2020		Soil	S20-No32140													X		X	
61	QC03	Nov 16, 2020		Soil	S20-No32141		X														
62	QC04	Nov 16, 2020		Soil	S20-No32142							X	X					X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
63	QC05	Nov 17, 2020		Soil	S20-No32143		X				X					X		X			
64	TS	Nov 13, 2020		Water	S20-No32144																X
65	TB	Nov 13, 2020		Water	S20-No32145												X				
66	SED01	Nov 17, 2020		Soil	S20-No32146							X	X					X		X	
67	SED02	Nov 17, 2020		Soil	S20-No32147							X	X					X		X	
68	SED03	Nov 17, 2020		Soil	S20-No32148						X					X		X			
69	SED04	Nov 17, 2020		Soil	S20-No32149						X					X		X			
70	TP105_0.2-0.3	Nov 16, 2020		Soil	S20-No32150				X												
71	TP105_1.0-1.1	Nov 16, 2020		Soil	S20-No32151				X												
72	TP105A_0.4-0.5	Nov 16, 2020		Soil	S20-No32152				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP105A_1.3-1.4	Nov 16, 2020		Soil	S20-No32153				X												
74	TP106_0.6-0.7	Nov 16, 2020		Soil	S20-No32154				X												
75	TP106_1.2-1.3	Nov 16, 2020		Soil	S20-No32155				X												
76	TP106A_0.2-0.3	Nov 16, 2020		Soil	S20-No32156				X												
77	TP106A_1.0-1.1	Nov 16, 2020		Soil	S20-No32157				X												
78	TP107_0.6-0.7	Nov 16, 2020		Soil	S20-No32158				X												
79	TP107_1.0-1.0	Nov 16, 2020		Soil	S20-No32159				X												
80	TP108_0.2-0.3	Nov 16, 2020		Soil	S20-No32160				X												
81	TP108A_0-0.9	Nov 16, 2020		Soil	S20-No32161				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
82	TP108A_0.6-0.7	Nov 16, 2020		Soil	S20-No32162				X												
83	TP108A_0.9-1.0	Nov 16, 2020		Soil	S20-No32163				X												
84	TP109_1.2-1.3	Nov 16, 2020		Soil	S20-No32164				X												
85	TP110_0.2-0.3	Nov 16, 2020		Soil	S20-No32165				X												
86	TP111_0.6-0.7	Nov 16, 2020		Soil	S20-No32166				X												
87	TP111_1.0-1.1	Nov 16, 2020		Soil	S20-No32167				X												
88	TP112_0.6-0.7	Nov 16, 2020		Soil	S20-No32168				X												
89	TP112_1.0-1.1	Nov 16, 2020		Soil	S20-No32169				X												
90	TP113_0.6-0.7	Nov 16, 2020		Soil	S20-No32170			X													

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Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
91	TP113_1.0-1.1	Nov 16, 2020		Soil	S20-No32171			X													
92	TP114_0.6-0.7	Nov 16, 2020		Soil	S20-No32172				X												
93	TP115_0.6-0.7	Nov 16, 2020		Soil	S20-No32173				X												
94	TP115_1.1-1.2	Nov 16, 2020		Soil	S20-No32174				X												
95	TP116_1.1-1.2	Nov 16, 2020		Soil	S20-No32175				X												
96	TP118_0.4-0.5	Nov 16, 2020		Soil	S20-No32176		X														
97	TP118_0.6-0.7	Nov 16, 2020		Soil	S20-No32177				X												
98	TP118_1.2-1.3	Nov 16, 2020		Soil	S20-No32178				X												
99	TP119_0-0.1	Nov 16, 2020		Soil	S20-No32179				X												
100	TP119_0.4-0.5	Nov 16, 2020		Soil	S20-No32180				X												
101	TP119_0.6-0.7	Nov 16, 2020		Soil	S20-No32181				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
102	TP119_1.2-1.3	Nov 16, 2020		Soil	S20-No32182				X												
103	TP120_0.5-0.6	Nov 16, 2020		Soil	S20-No32183				X												
104	TP120_1.0-1.1	Nov 16, 2020		Soil	S20-No32184				X												
105	TP121_0-0.1	Nov 16, 2020		Soil	S20-No32185				X												
106	TP121_0.5-0.6	Nov 16, 2020		Soil	S20-No32186		X														
107	TP121_1.0-1.1	Nov 16, 2020		Soil	S20-No32187				X												
108	TP122_0.5-0.6	Nov 16, 2020		Soil	S20-No32188				X												
109	TP122_1.0-1.1	Nov 16, 2020		Soil	S20-No32189				X												
110	TP123_0.4-0.5	Nov 16, 2020		Soil	S20-No32190				X												
111	TP123_0.6-0.7	Nov 16, 2020		Soil	S20-No32191				X												
112	TP123_1.2-1.3	Nov 16, 2020		Soil	S20-No32192				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
113	TP124_1.0-1.1	Nov 16, 2020		Soil	S20-No32193				X												
114	TP124A_0.2-0.3	Nov 16, 2020		Soil	S20-No32194				X												
115	TP124A_0.4-0.5	Nov 16, 2020		Soil	S20-No32195				X												
116	TP125_0.4-0.5	Nov 16, 2020		Soil	S20-No32196				X												
117	TP125_1.2-1.3	Nov 16, 2020		Soil	S20-No32197				X												
118	TP126_1.2-1.3	Nov 16, 2020		Soil	S20-No32198				X												
119	TP127_0.4-0.5	Nov 16, 2020		Soil	S20-No32199				X												
120	TP127_1.2-1.3	Nov 16, 2020		Soil	S20-No32200				X												
121	TP128A_0.4-0.5	Nov 16, 2020		Soil	S20-No32201				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
122	TP129A_0.2-0.3	Nov 16, 2020		Soil	S20-No32202				X												
123	TP129A_0.5-0.6	Nov 16, 2020		Soil	S20-No32203				X												
124	TP01_0-0.1	Nov 17, 2020		Soil	S20-No32204				X												
125	TP02_0.2-0.3	Nov 17, 2020		Soil	S20-No32205				X												
126	TP03_0-0.1	Nov 17, 2020		Soil	S20-No32206				X												
127	TP03_0.1-0.2	Nov 17, 2020		Soil	S20-No32207				X												
128	TP04_0-0.1	Nov 17, 2020		Soil	S20-No32208				X												
129	TP04_0.3-0.4	Nov 17, 2020		Soil	S20-No32209				X												
130	TP05_0-0.1	Nov 17, 2020		Soil	S20-No32210				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
131	TP05_0.2-0.3	Nov 17, 2020		Soil	S20-No32211				X												
132	TP06_0-0.1	Nov 17, 2020		Soil	S20-No32212				X												
133	TP06_0.4-0.5	Nov 17, 2020		Soil	S20-No32213				X												
134	TP07_0.2-0.3	Nov 17, 2020		Soil	S20-No32214				X												
135	TP13_0-0.1	Nov 17, 2020		Soil	S20-No32215				X												
136	TP13_0.5-0.6	Nov 17, 2020		Soil	S20-No32216				X												
137	TP13_1.0-1.1	Nov 17, 2020		Soil	S20-No32217				X												
138	TP24_0-0.1	Nov 17, 2020		Soil	S20-No32218				X												
139	TP24_0.5-0.6	Nov 17, 2020		Soil	S20-No32219				X												
140	TP24_1.2-1.3	Nov 17, 2020		Soil	S20-No32220				X												
141	TP25_0-0.1	Nov 17, 2020		Soil	S20-No32221				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
142	TP25_0.9-1.0	Nov 17, 2020		Soil	S20-No32222				X												
143	TP26_0.5-0.6	Nov 17, 2020		Soil	S20-No32223				X												
144	TP26_1.2-1.3	Nov 17, 2020		Soil	S20-No32224				X												
145	TP27_1.2-1.3	Nov 17, 2020		Soil	S20-No32225				X												
146	TP34_0.2-0.3	Nov 17, 2020		Soil	S20-No32226				X												
147	TP41_0-0.1	Nov 17, 2020		Soil	S20-No32227				X												
148	TP41_0.2-0.3	Nov 17, 2020		Soil	S20-No32228				X												
149	TP48_0.2-0.3	Nov 17, 2020		Soil	S20-No32229				X												
150	TP62_0-0.1	Nov 17, 2020		Soil	S20-No32230				X												
151	TP64_0-0.1	Nov 17, 2020		Soil	S20-No32231				X												
152	TP64_0.2-0.3	Nov 17, 2020		Soil	S20-No32232				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
153	TP65_0.2-0.3	Nov 17, 2020		Soil	S20-No32233				X												
154	TP66_0-0.1	Nov 17, 2020		Soil	S20-No32234				X												
155	TP66_0.2-0.3	Nov 17, 2020		Soil	S20-No32235				X												
156	TP67_0-0.1	Nov 17, 2020		Soil	S20-No32236				X												
157	TP67_0.2-0.3	Nov 17, 2020		Soil	S20-No32237				X												
158	TP68_0-0.1	Nov 17, 2020		Soil	S20-No32238				X												
159	TP68_0.2-0.3	Nov 17, 2020		Soil	S20-No32239				X												
160	TP69_0-0.1	Nov 17, 2020		Soil	S20-No32240				X												
161	TP70_0-0.1	Nov 17, 2020		Soil	S20-No32241				X												
162	TP71_0-0.1	Nov 17, 2020		Soil	S20-No32242				X												
163	TP71_0.2-0.3	Nov 17, 2020		Soil	S20-No32243				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
164	TP73_0-0.1	Nov 17, 2020		Soil	S20-No32244				X												
165	TP73_0.4-0.5	Nov 17, 2020		Soil	S20-No32245				X												
166	TP74_0-0.1	Nov 17, 2020		Soil	S20-No32246				X												
167	TP74_0.2-0.3	Nov 17, 2020		Soil	S20-No32247				X												
168	TP74_0.4-0.5	Nov 17, 2020		Soil	S20-No32248				X												
169	TP75_0-0.1	Nov 17, 2020		Soil	S20-No32249				X												
170	TP75_0.2-0.3	Nov 17, 2020		Soil	S20-No32250				X												
171	TP76_0-0.1	Nov 17, 2020		Soil	S20-No32251				X												
172	TP77_0-0.1	Nov 17, 2020		Soil	S20-No32252				X												
173	TP77_0.2-0.3	Nov 17, 2020		Soil	S20-No32253				X												
174	TP78_0-0.1	Nov 17, 2020		Soil	S20-No32254				X												

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
175	TP78_0.5-0.6	Nov 17, 2020		Soil	S20-No32255				X												
176	TP78_0.9-1.0	Nov 17, 2020		Soil	S20-No32256				X												
177	TP79_0-0.1	Nov 17, 2020		Soil	S20-No32257				X												
178	TP79_0.5-0.6	Nov 17, 2020		Soil	S20-No32258				X												
179	TP80_0-0.1	Nov 17, 2020		Soil	S20-No32259				X												
180	TP80_0.2-0.3	Nov 17, 2020		Soil	S20-No32260				X												
181	TP81_0-0.1	Nov 17, 2020		Soil	S20-No32261				X												
182	TP81_0.3-0.4	Nov 17, 2020		Soil	S20-No32262				X												
183	TP82_0.2-0.3	Nov 17, 2020		Soil	S20-No32263				X												
184	TP83_0-0.1	Nov 17, 2020		Soil	S20-No32264				X												
185	TP83_0.2-0.3	Nov 17, 2020		Soil	S20-No32265				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
186	TP84_0-0.1	Nov 17, 2020		Soil	S20-No32266				X												
187	TP84_0.5-0.6	Nov 17, 2020		Soil	S20-No32267				X												
188	TP85_0-0.1	Nov 17, 2020		Soil	S20-No32268				X												
189	TP85_0.5-0.6	Nov 17, 2020		Soil	S20-No32269				X												
190	TP86_0-0.1	Nov 17, 2020		Soil	S20-No32270				X												
191	TP86_0.5-0.6	Nov 17, 2020		Soil	S20-No32271				X												
192	TP87_0-0.1	Nov 17, 2020		Soil	S20-No32272				X												
193	TP87_0.3-0.4	Nov 17, 2020		Soil	S20-No32273				X												
194	TP88_0.2-0.3	Nov 17, 2020		Soil	S20-No32274				X												
195	TP89_0-0.1	Nov 17, 2020		Soil	S20-No32275				X												
196	TP89_0.3-0.4	Nov 17, 2020		Soil	S20-No32276				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
197	TP90_0.3-0.4	Nov 17, 2020		Soil	S20-No32277				X												
198	TP91_0-0.1	Nov 17, 2020		Soil	S20-No32278				X												
199	TP91_0.5-0.6	Nov 17, 2020		Soil	S20-No32279				X												
200	TP92_0.5-0.6	Nov 17, 2020		Soil	S20-No32280				X												
201	TP93_0-0.1	Nov 17, 2020		Soil	S20-No32281				X												
202	TP93_0.3-0.4	Nov 17, 2020		Soil	S20-No32282				X												
203	TP94_0-0.1	Nov 17, 2020		Soil	S20-No32283				X												
204	TP94_0.3-0.4	Nov 17, 2020		Soil	S20-No32284				X												
205	TP95_0-0.1	Nov 17, 2020		Soil	S20-No32285				X												
206	TP95_0.4-0.5	Nov 17, 2020		Soil	S20-No32286				X												
207	TP96_0-0.1	Nov 17, 2020		Soil	S20-No32287				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
208	TP96_0.5-0.6	Nov 17, 2020		Soil	S20-No32288				X												
209	TP98_0-0.1	Nov 17, 2020		Soil	S20-No32289				X												
210	TP98_1.0-1.1	Nov 17, 2020		Soil	S20-No32290				X												
211	TP99_0-0.1	Nov 17, 2020		Soil	S20-No32291				X												
212	TP99_0.5-0.6	Nov 17, 2020		Soil	S20-No32292				X												
213	TP100_0-0.1	Nov 17, 2020		Soil	S20-No32293				X												
214	TP100_0.5-0.6	Nov 17, 2020		Soil	S20-No32294				X												
215	TP101_0-0.1	Nov 17, 2020		Soil	S20-No32295				X												
216	TP101_0.5-0.6	Nov 17, 2020		Soil	S20-No32296				X												
217	TP117_0-0.1	Nov 17, 2020		Soil	S20-No32297				X												
218	TP117_0.5-0.6	Nov 17, 2020		Soil	S20-No32298				X												

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Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
219	TP128_0.5-0.6	Nov 17, 2020		Soil	S20-No32299				X												
220	TP128_1.2-1.3	Nov 17, 2020		Soil	S20-No32300				X												
221	TP129_0-0.6	Nov 17, 2020		Soil	S20-No32301				X												
222	TP129_0-0.1	Nov 17, 2020		Soil	S20-No32302				X												
223	TP129_0.5-0.6	Nov 17, 2020		Soil	S20-No32303				X												
224	TP129_0.9-1.0	Nov 17, 2020		Soil	S20-No32304				X												
225	TP197_0.5-0.6	Nov 17, 2020		Soil	S20-No32305				X												
226	TP111_0.2-0.3	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No32306						X			X		X					
227	TP111_0.2-0.3	Nov 16, 2020		US Leachate	S20-No32307						X				X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
228	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32412				X												
229	TP114A_0.2-0.3	Nov 16, 2020		Soil	S20-No32413				X												
230	TP114A_0.6-0.7	Nov 16, 2020		Soil	S20-No32414				X												
231	TP114A_1.0-1.1	Nov 16, 2020		Soil	S20-No32415				X												
232	TP114_1.0-1.1	Nov 16, 2020		Soil	S20-No32416				X												
233	TP55_0-0.1	Nov 16, 2020		Soil	S20-No32417				X												
234	TP55_0.2-0.3	Nov 16, 2020		Soil	S20-No32418				X												
Test Counts						1	34	4	159	1	18	18	8	1	1	19	1	42	1	21	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

S20-No32122: Sample received were less than the nominal 500mL as recommended in Section 4.10 of the NEPM Schedule B1 - Guideline on Investigation Levels for Soil and Groundwater.

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Authorised by:

Sayeed Abu	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
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NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757742-L**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TP111_0.2-0.3**	**TP111_0.2-0.3**
Sample Matrix			**AUS Leachate - Reagent Water**	**US Leachate**
Eurofins Sample No.			**S20-No32306**	**S20-No32307**
Date Sampled			**Nov 16, 2020**	**Nov 16, 2020**
Test/Reference	LOR	Unit		
Polycyclic Aromatic Hydrocarbons				
Acenaphthene	0.001	mg/L	< 0.001	< 0.001
Acenaphthylene	0.001	mg/L	< 0.001	< 0.001
Anthracene	0.001	mg/L	< 0.001	< 0.001
Benz(a)anthracene	0.001	mg/L	< 0.001	< 0.001
Benzo(a)pyrene	0.001	mg/L	< 0.001	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	< 0.001	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	< 0.001	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	< 0.001	< 0.001
Chrysene	0.001	mg/L	< 0.001	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	< 0.001	< 0.001
Fluoranthene	0.001	mg/L	< 0.001	< 0.001
Fluorene	0.001	mg/L	< 0.001	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	< 0.001	< 0.001
Naphthalene	0.001	mg/L	< 0.001	< 0.001
Phenanthrene	0.001	mg/L	< 0.001	< 0.001
Pyrene	0.001	mg/L	< 0.001	< 0.001
Total PAH*	0.001	mg/L	< 0.001	< 0.001
2-Fluorobiphenyl (surr.)	1	%	84	101
p-Terphenyl-d14 (surr.)	1	%	140	137
Heavy Metals				
Arsenic	0.005	mg/L	0.019	< 0.01
Cadmium	0.0005	mg/L	< 0.0005	< 0.005
Chromium	0.01	mg/L	0.06	< 0.05
Copper	0.01	mg/L	0.04	< 0.05
Lead	0.01	mg/L	0.04	< 0.01
Mercury	0.0001	mg/L	< 0.0001	< 0.001
Nickel	0.01	mg/L	0.02	< 0.01
Zinc	0.01	mg/L	0.20	0.13
AUS Leaching Procedure				
Leachate Fluid[C01]		comment	4.0	-
pH (initial)	0.1	pH Units	7.2	-
pH (Leachate fluid)	0.1	pH Units	5.8	-
pH (off)	0.1	pH Units	6.8	-

Client Sample ID			TP111_0.2-0.3	TP111_0.2-0.3
Sample Matrix			AUS Leachate - Reagent Water	US Leachate
Eurofins Sample No.			S20-No32306	S20-No32307
Date Sampled			Nov 16, 2020	Nov 16, 2020
Test/Reference	LOR	Unit		
USA Leaching Procedure				
Leachate Fluid[C01]		comment	-	1.0
pH (initial)	0.1	pH Units	-	7.2
pH (off)	0.1	pH Units	-	5.1
pH (USA HCl addition)	0.1	pH Units	-	1.6

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 19, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Nov 20, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
AUS Leaching Procedure	Sydney	Nov 19, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
USA Leaching Procedure	Sydney	Nov 19, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Company Name: JBS & G Australia (NSW) P/L
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP105_0-1.0	Nov 16, 2020		Soil	S20-No32081		X														
2	TP105_0.6-0.7	Nov 16, 2020		Soil	S20-No32082								X					X		X	
3	TP105A_0-1.0	Nov 16, 2020		Soil	S20-No32083		X														
4	TP106_0-1.0	Nov 16, 2020		Soil	S20-No32084		X														
5	TP106_0.2-0.3	Nov 16, 2020		Soil	S20-No32085													X		X	
6	TP106A_0-1.0	Nov 16, 2020		Soil	S20-No32086		X														
7	TP106A_0.6-0.7	Nov 16, 2020		Soil	S20-No32087							X						X		X	
8	TP107_0-1.0	Nov 16, 2020		Soil	S20-No32088		X														

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP107_0.2-0.3	Nov 16, 2020		Soil	S20-No32089							X						X		X	
10	TP107_1.4-1.5	Nov 16, 2020		Soil	S20-No32090						X					X		X			
11	TP108_0-1.0	Nov 16, 2020		Soil	S20-No32091		X														
12	TP108_0.6-0.7	Nov 16, 2020		Soil	S20-No32092													X		X	
13	TP108A_0.2-0.3	Nov 16, 2020		Soil	S20-No32093	X				X		X	X					X	X	X	
14	TP109_0-1.0	Nov 16, 2020		Soil	S20-No32094		X														
15	TP109_0.2-0.3	Nov 16, 2020		Soil	S20-No32095						X					X		X			
16	TP109_0.6-0.7	Nov 16, 2020		Soil	S20-No32096							X	X					X		X	
17	TP110_0-1.0	Nov 16, 2020		Soil	S20-No32097		X														
18	TP110_0.6-0.7	Nov 16, 2020		Soil	S20-No32098													X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP110_1.4-1.5	Nov 16, 2020		Soil	S20-No32099													X		X	
20	TP111_0-1.0	Nov 16, 2020		Soil	S20-No32100		X														
21	TP111_0.2-0.3	Nov 16, 2020		Soil	S20-No32101													X		X	
22	TP112_0-0.6	Nov 16, 2020		Soil	S20-No32102		X														
23	TP112_0.6-1.0	Nov 16, 2020		Soil	S20-No32103		X														
24	TP112_0.2-0.3	Nov 16, 2020		Soil	S20-No32104													X		X	
25	TP113_0-1.0	Nov 16, 2020		Soil	S20-No32105			X													
26	TP113_0.2-0.3	Nov 16, 2020		Soil	S20-No32106			X													
27	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32107		X														
28	TP114_0.2-0.3	Nov 16, 2020		Soil	S20-No32108						X					X		X			
29	TP115_0-1.0	Nov 16, 2020		Soil	S20-No32109		X														

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP115_0.2-0.3	Nov 16, 2020		Soil	S20-No32110													X		X	
31	TP116_0-1.0	Nov 16, 2020		Soil	S20-No32111		X														
32	TP116_0.5-0.6	Nov 16, 2020		Soil	S20-No32112							X	X					X		X	
33	TP116_0.9-1.0	Nov 16, 2020		Soil	S20-No32113						X					X		X			
34	TP118_0-0.1	Nov 16, 2020		Soil	S20-No32114		X					X	X					X		X	
35	TP120_0-0.1	Nov 16, 2020		Soil	S20-No32115		X				X	X				X		X			
36	TP122_0-0.1	Nov 16, 2020		Soil	S20-No32116						X	X				X		X			
37	TP124_0.4-0.5	Nov 16, 2020		Soil	S20-No32117		X														
38	TP126_0.4-0.5	Nov 16, 2020		Soil	S20-No32118		X														
39	TP128A_0-0.1	Nov 16, 2020		Soil	S20-No32119		X														
40	TP02_0-0.1	Nov 17, 2020		Soil	S20-No32120							X						X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
41	TP07_0-0.1	Nov 17, 2020		Soil	S20-No32121						X					X		X			
42	TP25_0.5-0.6	Nov 17, 2020		Soil	S20-No32122		X											X		X	
43	TP26_0-0.1	Nov 17, 2020		Soil	S20-No32123		X				X					X		X			
44	TP27_0-0.1	Nov 17, 2020		Soil	S20-No32124		X														
45	TP34_0-0.1	Nov 17, 2020		Soil	S20-No32125							X						X			
46	TP48_0-0.1	Nov 17, 2020		Soil	S20-No32126		X														
47	TP61_0-0.1	Nov 17, 2020		Soil	S20-No32127							X						X			
48	TP65_0-0.1	Nov 17, 2020		Soil	S20-No32128		X					X						X		X	
49	TP69_0.3-0.4	Nov 17, 2020		Soil	S20-No32129						X					X		X			
50	TP76_0.3-0.4	Nov 17, 2020		Soil	S20-No32130						X					X		X			
51	TP82_0-0.1	Nov 17, 2020		Soil	S20-No32131		X				X					X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
52	TP88_0-0.1	Nov 17, 2020		Soil	S20-No32132							X						X			
53	TP90_0-0.1	Nov 17, 2020		Soil	S20-No32133		X				X	X				X		X			
54	TP92_0-0.1	Nov 17, 2020		Soil	S20-No32134							X						X			
55	TP98_0.5-0.6	Nov 17, 2020		Soil	S20-No32135						X					X		X			
56	TP128_0-1.0	Nov 17, 2020		Soil	S20-No32136		X														
57	TP128_0-0.1	Nov 17, 2020		Soil	S20-No32137		X														
58	TP197_0-0.1	Nov 17, 2020		Soil	S20-No32138		X									X		X			
59	QC01	Nov 16, 2020		Soil	S20-No32139		X														
60	QC02	Nov 16, 2020		Soil	S20-No32140													X		X	
61	QC03	Nov 16, 2020		Soil	S20-No32141		X														
62	QC04	Nov 16, 2020		Soil	S20-No32142							X	X					X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
63	QC05	Nov 17, 2020		Soil	S20-No32143		X				X					X		X			
64	TS	Nov 13, 2020		Water	S20-No32144																X
65	TB	Nov 13, 2020		Water	S20-No32145												X				
66	SED01	Nov 17, 2020		Soil	S20-No32146							X	X					X		X	
67	SED02	Nov 17, 2020		Soil	S20-No32147							X	X					X		X	
68	SED03	Nov 17, 2020		Soil	S20-No32148						X					X		X			
69	SED04	Nov 17, 2020		Soil	S20-No32149						X					X		X			
70	TP105_0.2-0.3	Nov 16, 2020		Soil	S20-No32150				X												
71	TP105_1.0-1.1	Nov 16, 2020		Soil	S20-No32151				X												
72	TP105A_0.4-0.5	Nov 16, 2020		Soil	S20-No32152				X												

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP105A_1.3-1.4	Nov 16, 2020		Soil	S20-No32153				X												
74	TP106_0.6-0.7	Nov 16, 2020		Soil	S20-No32154				X												
75	TP106_1.2-1.3	Nov 16, 2020		Soil	S20-No32155				X												
76	TP106A_0.2-0.3	Nov 16, 2020		Soil	S20-No32156				X												
77	TP106A_1.0-1.1	Nov 16, 2020		Soil	S20-No32157				X												
78	TP107_0.6-0.7	Nov 16, 2020		Soil	S20-No32158				X												
79	TP107_1.0-1.0	Nov 16, 2020		Soil	S20-No32159				X												
80	TP108_0.2-0.3	Nov 16, 2020		Soil	S20-No32160				X												
81	TP108A_0-0.9	Nov 16, 2020		Soil	S20-No32161				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
82	TP108A_0.6-0.7	Nov 16, 2020		Soil	S20-No32162				X												
83	TP108A_0.9-1.0	Nov 16, 2020		Soil	S20-No32163				X												
84	TP109_1.2-1.3	Nov 16, 2020		Soil	S20-No32164				X												
85	TP110_0.2-0.3	Nov 16, 2020		Soil	S20-No32165				X												
86	TP111_0.6-0.7	Nov 16, 2020		Soil	S20-No32166				X												
87	TP111_1.0-1.1	Nov 16, 2020		Soil	S20-No32167				X												
88	TP112_0.6-0.7	Nov 16, 2020		Soil	S20-No32168				X												
89	TP112_1.0-1.1	Nov 16, 2020		Soil	S20-No32169				X												
90	TP113_0.6-0.7	Nov 16, 2020		Soil	S20-No32170			X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
91	TP113_1.0-1.1	Nov 16, 2020		Soil	S20-No32171			X													
92	TP114_0.6-0.7	Nov 16, 2020		Soil	S20-No32172				X												
93	TP115_0.6-0.7	Nov 16, 2020		Soil	S20-No32173				X												
94	TP115_1.1-1.2	Nov 16, 2020		Soil	S20-No32174				X												
95	TP116_1.1-1.2	Nov 16, 2020		Soil	S20-No32175				X												
96	TP118_0.4-0.5	Nov 16, 2020		Soil	S20-No32176		X														
97	TP118_0.6-0.7	Nov 16, 2020		Soil	S20-No32177				X												
98	TP118_1.2-1.3	Nov 16, 2020		Soil	S20-No32178				X												
99	TP119_0-0.1	Nov 16, 2020		Soil	S20-No32179				X												
100	TP119_0.4-0.5	Nov 16, 2020		Soil	S20-No32180				X												
101	TP119_0.6-0.7	Nov 16, 2020		Soil	S20-No32181				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
102	TP119_1.2-1.3	Nov 16, 2020		Soil	S20-No32182				X												
103	TP120_0.5-0.6	Nov 16, 2020		Soil	S20-No32183				X												
104	TP120_1.0-1.1	Nov 16, 2020		Soil	S20-No32184				X												
105	TP121_0-0.1	Nov 16, 2020		Soil	S20-No32185				X												
106	TP121_0.5-0.6	Nov 16, 2020		Soil	S20-No32186		X														
107	TP121_1.0-1.1	Nov 16, 2020		Soil	S20-No32187				X												
108	TP122_0.5-0.6	Nov 16, 2020		Soil	S20-No32188				X												
109	TP122_1.0-1.1	Nov 16, 2020		Soil	S20-No32189				X												
110	TP123_0.4-0.5	Nov 16, 2020		Soil	S20-No32190				X												
111	TP123_0.6-0.7	Nov 16, 2020		Soil	S20-No32191				X												
112	TP123_1.2-1.3	Nov 16, 2020		Soil	S20-No32192				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
113	TP124_1.0-1.1	Nov 16, 2020		Soil	S20-No32193				X												
114	TP124A_0.2-0.3	Nov 16, 2020		Soil	S20-No32194				X												
115	TP124A_0.4-0.5	Nov 16, 2020		Soil	S20-No32195				X												
116	TP125_0.4-0.5	Nov 16, 2020		Soil	S20-No32196				X												
117	TP125_1.2-1.3	Nov 16, 2020		Soil	S20-No32197				X												
118	TP126_1.2-1.3	Nov 16, 2020		Soil	S20-No32198				X												
119	TP127_0.4-0.5	Nov 16, 2020		Soil	S20-No32199				X												
120	TP127_1.2-1.3	Nov 16, 2020		Soil	S20-No32200				X												
121	TP128A_0.4-0.5	Nov 16, 2020		Soil	S20-No32201				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
122	TP129A_0.2-0.3	Nov 16, 2020		Soil	S20-No32202				X												
123	TP129A_0.5-0.6	Nov 16, 2020		Soil	S20-No32203				X												
124	TP01_0-0.1	Nov 17, 2020		Soil	S20-No32204				X												
125	TP02_0.2-0.3	Nov 17, 2020		Soil	S20-No32205				X												
126	TP03_0-0.1	Nov 17, 2020		Soil	S20-No32206				X												
127	TP03_0.1-0.2	Nov 17, 2020		Soil	S20-No32207				X												
128	TP04_0-0.1	Nov 17, 2020		Soil	S20-No32208				X												
129	TP04_0.3-0.4	Nov 17, 2020		Soil	S20-No32209				X												
130	TP05_0-0.1	Nov 17, 2020		Soil	S20-No32210				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
131	TP05_0.2-0.3	Nov 17, 2020		Soil	S20-No32211				X												
132	TP06_0-0.1	Nov 17, 2020		Soil	S20-No32212				X												
133	TP06_0.4-0.5	Nov 17, 2020		Soil	S20-No32213				X												
134	TP07_0.2-0.3	Nov 17, 2020		Soil	S20-No32214				X												
135	TP13_0-0.1	Nov 17, 2020		Soil	S20-No32215				X												
136	TP13_0.5-0.6	Nov 17, 2020		Soil	S20-No32216				X												
137	TP13_1.0-1.1	Nov 17, 2020		Soil	S20-No32217				X												
138	TP24_0-0.1	Nov 17, 2020		Soil	S20-No32218				X												
139	TP24_0.5-0.6	Nov 17, 2020		Soil	S20-No32219				X												
140	TP24_1.2-1.3	Nov 17, 2020		Soil	S20-No32220				X												
141	TP25_0-0.1	Nov 17, 2020		Soil	S20-No32221				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
142	TP25_0.9-1.0	Nov 17, 2020		Soil	S20-No32222				X												
143	TP26_0.5-0.6	Nov 17, 2020		Soil	S20-No32223				X												
144	TP26_1.2-1.3	Nov 17, 2020		Soil	S20-No32224				X												
145	TP27_1.2-1.3	Nov 17, 2020		Soil	S20-No32225				X												
146	TP34_0.2-0.3	Nov 17, 2020		Soil	S20-No32226				X												
147	TP41_0-0.1	Nov 17, 2020		Soil	S20-No32227				X												
148	TP41_0.2-0.3	Nov 17, 2020		Soil	S20-No32228				X												
149	TP48_0.2-0.3	Nov 17, 2020		Soil	S20-No32229				X												
150	TP62_0-0.1	Nov 17, 2020		Soil	S20-No32230				X												
151	TP64_0-0.1	Nov 17, 2020		Soil	S20-No32231				X												
152	TP64_0.2-0.3	Nov 17, 2020		Soil	S20-No32232				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
153	TP65_0.2-0.3	Nov 17, 2020		Soil	S20-No32233				X												
154	TP66_0-0.1	Nov 17, 2020		Soil	S20-No32234				X												
155	TP66_0.2-0.3	Nov 17, 2020		Soil	S20-No32235				X												
156	TP67_0-0.1	Nov 17, 2020		Soil	S20-No32236				X												
157	TP67_0.2-0.3	Nov 17, 2020		Soil	S20-No32237				X												
158	TP68_0-0.1	Nov 17, 2020		Soil	S20-No32238				X												
159	TP68_0.2-0.3	Nov 17, 2020		Soil	S20-No32239				X												
160	TP69_0-0.1	Nov 17, 2020		Soil	S20-No32240				X												
161	TP70_0-0.1	Nov 17, 2020		Soil	S20-No32241				X												
162	TP71_0-0.1	Nov 17, 2020		Soil	S20-No32242				X												
163	TP71_0.2-0.3	Nov 17, 2020		Soil	S20-No32243				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
164	TP73_0-0.1	Nov 17, 2020		Soil	S20-No32244				X												
165	TP73_0.4-0.5	Nov 17, 2020		Soil	S20-No32245				X												
166	TP74_0-0.1	Nov 17, 2020		Soil	S20-No32246				X												
167	TP74_0.2-0.3	Nov 17, 2020		Soil	S20-No32247				X												
168	TP74_0.4-0.5	Nov 17, 2020		Soil	S20-No32248				X												
169	TP75_0-0.1	Nov 17, 2020		Soil	S20-No32249				X												
170	TP75_0.2-0.3	Nov 17, 2020		Soil	S20-No32250				X												
171	TP76_0-0.1	Nov 17, 2020		Soil	S20-No32251				X												
172	TP77_0-0.1	Nov 17, 2020		Soil	S20-No32252				X												
173	TP77_0.2-0.3	Nov 17, 2020		Soil	S20-No32253				X												
174	TP78_0-0.1	Nov 17, 2020		Soil	S20-No32254				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
175	TP78_0.5-0.6	Nov 17, 2020		Soil	S20-No32255				X												
176	TP78_0.9-1.0	Nov 17, 2020		Soil	S20-No32256				X												
177	TP79_0-0.1	Nov 17, 2020		Soil	S20-No32257				X												
178	TP79_0.5-0.6	Nov 17, 2020		Soil	S20-No32258				X												
179	TP80_0-0.1	Nov 17, 2020		Soil	S20-No32259				X												
180	TP80_0.2-0.3	Nov 17, 2020		Soil	S20-No32260				X												
181	TP81_0-0.1	Nov 17, 2020		Soil	S20-No32261				X												
182	TP81_0.3-0.4	Nov 17, 2020		Soil	S20-No32262				X												
183	TP82_0.2-0.3	Nov 17, 2020		Soil	S20-No32263				X												
184	TP83_0-0.1	Nov 17, 2020		Soil	S20-No32264				X												
185	TP83_0.2-0.3	Nov 17, 2020		Soil	S20-No32265				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
186	TP84_0-0.1	Nov 17, 2020		Soil	S20-No32266				X												
187	TP84_0.5-0.6	Nov 17, 2020		Soil	S20-No32267				X												
188	TP85_0-0.1	Nov 17, 2020		Soil	S20-No32268				X												
189	TP85_0.5-0.6	Nov 17, 2020		Soil	S20-No32269				X												
190	TP86_0-0.1	Nov 17, 2020		Soil	S20-No32270				X												
191	TP86_0.5-0.6	Nov 17, 2020		Soil	S20-No32271				X												
192	TP87_0-0.1	Nov 17, 2020		Soil	S20-No32272				X												
193	TP87_0.3-0.4	Nov 17, 2020		Soil	S20-No32273				X												
194	TP88_0.2-0.3	Nov 17, 2020		Soil	S20-No32274				X												
195	TP89_0-0.1	Nov 17, 2020		Soil	S20-No32275				X												
196	TP89_0.3-0.4	Nov 17, 2020		Soil	S20-No32276				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
197	TP90_0.3-0.4	Nov 17, 2020		Soil	S20-No32277				X												
198	TP91_0-0.1	Nov 17, 2020		Soil	S20-No32278				X												
199	TP91_0.5-0.6	Nov 17, 2020		Soil	S20-No32279				X												
200	TP92_0.5-0.6	Nov 17, 2020		Soil	S20-No32280				X												
201	TP93_0-0.1	Nov 17, 2020		Soil	S20-No32281				X												
202	TP93_0.3-0.4	Nov 17, 2020		Soil	S20-No32282				X												
203	TP94_0-0.1	Nov 17, 2020		Soil	S20-No32283				X												
204	TP94_0.3-0.4	Nov 17, 2020		Soil	S20-No32284				X												
205	TP95_0-0.1	Nov 17, 2020		Soil	S20-No32285				X												
206	TP95_0.4-0.5	Nov 17, 2020		Soil	S20-No32286				X												
207	TP96_0-0.1	Nov 17, 2020		Soil	S20-No32287				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
208	TP96_0.5-0.6	Nov 17, 2020		Soil	S20-No32288				X												
209	TP98_0-0.1	Nov 17, 2020		Soil	S20-No32289				X												
210	TP98_1.0-1.1	Nov 17, 2020		Soil	S20-No32290				X												
211	TP99_0-0.1	Nov 17, 2020		Soil	S20-No32291				X												
212	TP99_0.5-0.6	Nov 17, 2020		Soil	S20-No32292				X												
213	TP100_0-0.1	Nov 17, 2020		Soil	S20-No32293				X												
214	TP100_0.5-0.6	Nov 17, 2020		Soil	S20-No32294				X												
215	TP101_0-0.1	Nov 17, 2020		Soil	S20-No32295				X												
216	TP101_0.5-0.6	Nov 17, 2020		Soil	S20-No32296				X												
217	TP117_0-0.1	Nov 17, 2020		Soil	S20-No32297				X												
218	TP117_0.5-0.6	Nov 17, 2020		Soil	S20-No32298				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
219	TP128_0.5-0.6	Nov 17, 2020		Soil	S20-No32299				X												
220	TP128_1.2-1.3	Nov 17, 2020		Soil	S20-No32300				X												
221	TP129_0-0.6	Nov 17, 2020		Soil	S20-No32301				X												
222	TP129_0-0.1	Nov 17, 2020		Soil	S20-No32302				X												
223	TP129_0.5-0.6	Nov 17, 2020		Soil	S20-No32303				X												
224	TP129_0.9-1.0	Nov 17, 2020		Soil	S20-No32304				X												
225	TP197_0.5-0.6	Nov 17, 2020		Soil	S20-No32305				X												
226	TP111_0.2-0.3	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No32306						X			X		X					
227	TP111_0.2-0.3	Nov 16, 2020		US Leachate	S20-No32307						X				X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
228	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32412				X												
229	TP114A_0.2-0.3	Nov 16, 2020		Soil	S20-No32413				X												
230	TP114A_0.6-0.7	Nov 16, 2020		Soil	S20-No32414				X												
231	TP114A_1.0-1.1	Nov 16, 2020		Soil	S20-No32415				X												
232	TP114_1.0-1.1	Nov 16, 2020		Soil	S20-No32416				X												
233	TP55_0-0.1	Nov 16, 2020		Soil	S20-No32417				X												
234	TP55_0.2-0.3	Nov 16, 2020		Soil	S20-No32418				X												
Test Counts						1	34	4	159	1	18	18	8	1	1	19	1	42	1	21	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.01			0.01	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	85			70-130	Pass	
Acenaphthylene	%	95			70-130	Pass	
Anthracene	%	92			70-130	Pass	
Benz(a)anthracene	%	95			70-130	Pass	
Benzo(a)pyrene	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	%	87			70-130	Pass	
Benzo(g.h.i)perylene	%	92			70-130	Pass	
Benzo(k)fluoranthene	%	90			70-130	Pass	
Chrysene	%	96			70-130	Pass	
Dibenz(a.h)anthracene	%	96			70-130	Pass	
Fluoranthene	%	104			70-130	Pass	
Fluorene	%	95			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	87			70-130	Pass	
Naphthalene	%	98			70-130	Pass	
Phenanthrene	%	96			70-130	Pass	
Pyrene	%	103			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	100			80-120	Pass	
Chromium	%	100			80-120	Pass	
Copper	%	100			80-120	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Lead			%	102			80-120	Pass	
Mercury			%	103			80-120	Pass	
Nickel			%	99			80-120	Pass	
Zinc			%	97			80-120	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No32306	CP	%	101			75-125	Pass	
Cadmium	S20-No32306	CP	%	108			75-125	Pass	
Chromium	S20-No32306	CP	%	103			75-125	Pass	
Copper	S20-No32306	CP	%	101			75-125	Pass	
Lead	S20-No32306	CP	%	104			75-125	Pass	
Mercury	S20-No32306	CP	%	110			75-125	Pass	
Nickel	S20-No32306	CP	%	100			75-125	Pass	
Zinc	S20-No32306	CP	%	98			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No32306	CP	mg/L	0.019	0.018	6.0	30%	Pass	
Cadmium	S20-No32306	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S20-No32306	CP	mg/L	0.06	0.06	6.0	30%	Pass	
Copper	S20-No32306	CP	mg/L	0.04	0.04	5.0	30%	Pass	
Lead	S20-No32306	CP	mg/L	0.04	0.04	7.0	30%	Pass	
Mercury	S20-No32306	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-No32306	CP	mg/L	0.02	0.02	10	30%	Pass	
Zinc	S20-No32306	CP	mg/L	0.20	0.18	9.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **757742-W**
Project name MAMRE RD
Project ID 59884
Received Date Nov 18, 2020

Client Sample ID			**TS**	**TB**
Sample Matrix			**Water**	**Water**
Eurofins Sample No.			**S20-No32144**	**S20-No32145**
Date Sampled			**Nov 13, 2020**	**Nov 13, 2020**
Test/Reference	LOR	Unit		
BTEX				
Benzene	1	%	100	-
Ethylbenzene	1	%	100	-
m&p-Xylenes	1	%	110	-
o-Xylene	1	%	100	-
Toluene	1	%	100	-
Xylenes - Total	1	%	100	-
4-Bromofluorobenzene (surr.)	1	%	114	-
BTEX				
Benzene	0.001	mg/L	-	< 0.001
Toluene	0.001	mg/L	-	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	118

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
BTEX	Sydney	Nov 18, 2020	14 Days

- Method: LTM-ORG-2010 TRH C6-C40

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NATA # 1261 Site # 18217

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NATA # 1261 Site # 20794

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
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NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																
1	TP105_0-1.0	Nov 16, 2020		Soil	S20-No32081		X														
2	TP105_0.6-0.7	Nov 16, 2020		Soil	S20-No32082								X					X		X	
3	TP105A_0-1.0	Nov 16, 2020		Soil	S20-No32083		X														
4	TP106_0-1.0	Nov 16, 2020		Soil	S20-No32084		X														
5	TP106_0.2-0.3	Nov 16, 2020		Soil	S20-No32085													X		X	
6	TP106A_0-1.0	Nov 16, 2020		Soil	S20-No32086		X														
7	TP106A_0.6-0.7	Nov 16, 2020		Soil	S20-No32087							X						X		X	
8	TP107_0-1.0	Nov 16, 2020		Soil	S20-No32088		X														

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
9	TP107_0.2-0.3	Nov 16, 2020		Soil	S20-No32089							X						X		X	
10	TP107_1.4-1.5	Nov 16, 2020		Soil	S20-No32090						X					X		X			
11	TP108_0-1.0	Nov 16, 2020		Soil	S20-No32091		X														
12	TP108_0.6-0.7	Nov 16, 2020		Soil	S20-No32092													X		X	
13	TP108A_0.2-0.3	Nov 16, 2020		Soil	S20-No32093	X				X		X	X					X	X	X	
14	TP109_0-1.0	Nov 16, 2020		Soil	S20-No32094		X														
15	TP109_0.2-0.3	Nov 16, 2020		Soil	S20-No32095						X					X		X			
16	TP109_0.6-0.7	Nov 16, 2020		Soil	S20-No32096							X	X					X		X	
17	TP110_0-1.0	Nov 16, 2020		Soil	S20-No32097		X														
18	TP110_0.6-0.7	Nov 16, 2020		Soil	S20-No32098													X		X	

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Project ID: 59884

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Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
19	TP110_1.4-1.5	Nov 16, 2020		Soil	S20-No32099													X		X	
20	TP111_0-1.0	Nov 16, 2020		Soil	S20-No32100		X														
21	TP111_0.2-0.3	Nov 16, 2020		Soil	S20-No32101													X		X	
22	TP112_0-0.6	Nov 16, 2020		Soil	S20-No32102		X														
23	TP112_0.6-1.0	Nov 16, 2020		Soil	S20-No32103		X														
24	TP112_0.2-0.3	Nov 16, 2020		Soil	S20-No32104													X		X	
25	TP113_0-1.0	Nov 16, 2020		Soil	S20-No32105			X													
26	TP113_0.2-0.3	Nov 16, 2020		Soil	S20-No32106			X													
27	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32107		X														
28	TP114_0.2-0.3	Nov 16, 2020		Soil	S20-No32108						X					X		X			
29	TP115_0-1.0	Nov 16, 2020		Soil	S20-No32109		X														

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
30	TP115_0.2-0.3	Nov 16, 2020		Soil	S20-No32110													X		X	
31	TP116_0-1.0	Nov 16, 2020		Soil	S20-No32111		X														
32	TP116_0.5-0.6	Nov 16, 2020		Soil	S20-No32112							X	X					X		X	
33	TP116_0.9-1.0	Nov 16, 2020		Soil	S20-No32113						X					X		X			
34	TP118_0-0.1	Nov 16, 2020		Soil	S20-No32114		X					X	X					X		X	
35	TP120_0-0.1	Nov 16, 2020		Soil	S20-No32115		X				X	X				X		X			
36	TP122_0-0.1	Nov 16, 2020		Soil	S20-No32116						X	X				X		X			
37	TP124_0.4-0.5	Nov 16, 2020		Soil	S20-No32117		X														
38	TP126_0.4-0.5	Nov 16, 2020		Soil	S20-No32118		X														
39	TP128A_0-0.1	Nov 16, 2020		Soil	S20-No32119		X														
40	TP02_0-0.1	Nov 17, 2020		Soil	S20-No32120							X						X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
41	TP07_0-0.1	Nov 17, 2020		Soil	S20-No32121						X					X		X			
42	TP25_0.5-0.6	Nov 17, 2020		Soil	S20-No32122		X											X		X	
43	TP26_0-0.1	Nov 17, 2020		Soil	S20-No32123		X				X					X		X			
44	TP27_0-0.1	Nov 17, 2020		Soil	S20-No32124		X														
45	TP34_0-0.1	Nov 17, 2020		Soil	S20-No32125							X						X			
46	TP48_0-0.1	Nov 17, 2020		Soil	S20-No32126		X														
47	TP61_0-0.1	Nov 17, 2020		Soil	S20-No32127							X						X			
48	TP65_0-0.1	Nov 17, 2020		Soil	S20-No32128		X					X						X		X	
49	TP69_0.3-0.4	Nov 17, 2020		Soil	S20-No32129						X					X		X			
50	TP76_0.3-0.4	Nov 17, 2020		Soil	S20-No32130						X					X		X			
51	TP82_0-0.1	Nov 17, 2020		Soil	S20-No32131		X				X					X		X			

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
52	TP88_0-0.1	Nov 17, 2020		Soil	S20-No32132							X						X			
53	TP90_0-0.1	Nov 17, 2020		Soil	S20-No32133		X				X	X				X		X			
54	TP92_0-0.1	Nov 17, 2020		Soil	S20-No32134							X						X			
55	TP98_0.5-0.6	Nov 17, 2020		Soil	S20-No32135						X					X		X			
56	TP128_0-1.0	Nov 17, 2020		Soil	S20-No32136		X														
57	TP128_0-0.1	Nov 17, 2020		Soil	S20-No32137		X														
58	TP197_0-0.1	Nov 17, 2020		Soil	S20-No32138		X									X		X			
59	QC01	Nov 16, 2020		Soil	S20-No32139		X														
60	QC02	Nov 16, 2020		Soil	S20-No32140													X		X	
61	QC03	Nov 16, 2020		Soil	S20-No32141		X														
62	QC04	Nov 16, 2020		Soil	S20-No32142							X	X					X		X	

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
63	QC05	Nov 17, 2020		Soil	S20-No32143		X				X					X		X			
64	TS	Nov 13, 2020		Water	S20-No32144																X
65	TB	Nov 13, 2020		Water	S20-No32145												X				
66	SED01	Nov 17, 2020		Soil	S20-No32146							X	X					X		X	
67	SED02	Nov 17, 2020		Soil	S20-No32147							X	X					X		X	
68	SED03	Nov 17, 2020		Soil	S20-No32148						X					X		X			
69	SED04	Nov 17, 2020		Soil	S20-No32149						X					X		X			
70	TP105_0.2-0.3	Nov 16, 2020		Soil	S20-No32150				X												
71	TP105_1.0-1.1	Nov 16, 2020		Soil	S20-No32151				X												
72	TP105A_0.4-0.5	Nov 16, 2020		Soil	S20-No32152				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
73	TP105A_1.3-1.4	Nov 16, 2020		Soil	S20-No32153				X												
74	TP106_0.6-0.7	Nov 16, 2020		Soil	S20-No32154				X												
75	TP106_1.2-1.3	Nov 16, 2020		Soil	S20-No32155				X												
76	TP106A_0.2-0.3	Nov 16, 2020		Soil	S20-No32156				X												
77	TP106A_1.0-1.1	Nov 16, 2020		Soil	S20-No32157				X												
78	TP107_0.6-0.7	Nov 16, 2020		Soil	S20-No32158				X												
79	TP107_1.0-1.0	Nov 16, 2020		Soil	S20-No32159				X												
80	TP108_0.2-0.3	Nov 16, 2020		Soil	S20-No32160				X												
81	TP108A_0-0.9	Nov 16, 2020		Soil	S20-No32161				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
82	TP108A_0.6-0.7	Nov 16, 2020		Soil	S20-No32162				X												
83	TP108A_0.9-1.0	Nov 16, 2020		Soil	S20-No32163				X												
84	TP109_1.2-1.3	Nov 16, 2020		Soil	S20-No32164				X												
85	TP110_0.2-0.3	Nov 16, 2020		Soil	S20-No32165				X												
86	TP111_0.6-0.7	Nov 16, 2020		Soil	S20-No32166				X												
87	TP111_1.0-1.1	Nov 16, 2020		Soil	S20-No32167				X												
88	TP112_0.6-0.7	Nov 16, 2020		Soil	S20-No32168				X												
89	TP112_1.0-1.1	Nov 16, 2020		Soil	S20-No32169				X												
90	TP113_0.6-0.7	Nov 16, 2020		Soil	S20-No32170			X													

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
91	TP113_1.0-1.1	Nov 16, 2020		Soil	S20-No32171			X													
92	TP114_0.6-0.7	Nov 16, 2020		Soil	S20-No32172				X												
93	TP115_0.6-0.7	Nov 16, 2020		Soil	S20-No32173				X												
94	TP115_1.1-1.2	Nov 16, 2020		Soil	S20-No32174				X												
95	TP116_1.1-1.2	Nov 16, 2020		Soil	S20-No32175				X												
96	TP118_0.4-0.5	Nov 16, 2020		Soil	S20-No32176		X														
97	TP118_0.6-0.7	Nov 16, 2020		Soil	S20-No32177				X												
98	TP118_1.2-1.3	Nov 16, 2020		Soil	S20-No32178				X												
99	TP119_0-0.1	Nov 16, 2020		Soil	S20-No32179				X												
100	TP119_0.4-0.5	Nov 16, 2020		Soil	S20-No32180				X												
101	TP119_0.6-0.7	Nov 16, 2020		Soil	S20-No32181				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
102	TP119_1.2-1.3	Nov 16, 2020		Soil	S20-No32182				X												
103	TP120_0.5-0.6	Nov 16, 2020		Soil	S20-No32183				X												
104	TP120_1.0-1.1	Nov 16, 2020		Soil	S20-No32184				X												
105	TP121_0-0.1	Nov 16, 2020		Soil	S20-No32185				X												
106	TP121_0.5-0.6	Nov 16, 2020		Soil	S20-No32186		X														
107	TP121_1.0-1.1	Nov 16, 2020		Soil	S20-No32187				X												
108	TP122_0.5-0.6	Nov 16, 2020		Soil	S20-No32188				X												
109	TP122_1.0-1.1	Nov 16, 2020		Soil	S20-No32189				X												
110	TP123_0.4-0.5	Nov 16, 2020		Soil	S20-No32190				X												
111	TP123_0.6-0.7	Nov 16, 2020		Soil	S20-No32191				X												
112	TP123_1.2-1.3	Nov 16, 2020		Soil	S20-No32192				X												

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
113	TP124_1.0-1.1	Nov 16, 2020		Soil	S20-No32193				X												
114	TP124A_0.2-0.3	Nov 16, 2020		Soil	S20-No32194				X												
115	TP124A_0.4-0.5	Nov 16, 2020		Soil	S20-No32195				X												
116	TP125_0.4-0.5	Nov 16, 2020		Soil	S20-No32196				X												
117	TP125_1.2-1.3	Nov 16, 2020		Soil	S20-No32197				X												
118	TP126_1.2-1.3	Nov 16, 2020		Soil	S20-No32198				X												
119	TP127_0.4-0.5	Nov 16, 2020		Soil	S20-No32199				X												
120	TP127_1.2-1.3	Nov 16, 2020		Soil	S20-No32200				X												
121	TP128A_0.4-0.5	Nov 16, 2020		Soil	S20-No32201				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
122	TP129A_0.2-0.3	Nov 16, 2020		Soil	S20-No32202				X												
123	TP129A_0.5-0.6	Nov 16, 2020		Soil	S20-No32203				X												
124	TP01_0-0.1	Nov 17, 2020		Soil	S20-No32204				X												
125	TP02_0.2-0.3	Nov 17, 2020		Soil	S20-No32205				X												
126	TP03_0-0.1	Nov 17, 2020		Soil	S20-No32206				X												
127	TP03_0.1-0.2	Nov 17, 2020		Soil	S20-No32207				X												
128	TP04_0-0.1	Nov 17, 2020		Soil	S20-No32208				X												
129	TP04_0.3-0.4	Nov 17, 2020		Soil	S20-No32209				X												
130	TP05_0-0.1	Nov 17, 2020		Soil	S20-No32210				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
131	TP05_0.2-0.3	Nov 17, 2020		Soil	S20-No32211				X												
132	TP06_0-0.1	Nov 17, 2020		Soil	S20-No32212				X												
133	TP06_0.4-0.5	Nov 17, 2020		Soil	S20-No32213				X												
134	TP07_0.2-0.3	Nov 17, 2020		Soil	S20-No32214				X												
135	TP13_0-0.1	Nov 17, 2020		Soil	S20-No32215				X												
136	TP13_0.5-0.6	Nov 17, 2020		Soil	S20-No32216				X												
137	TP13_1.0-1.1	Nov 17, 2020		Soil	S20-No32217				X												
138	TP24_0-0.1	Nov 17, 2020		Soil	S20-No32218				X												
139	TP24_0.5-0.6	Nov 17, 2020		Soil	S20-No32219				X												
140	TP24_1.2-1.3	Nov 17, 2020		Soil	S20-No32220				X												
141	TP25_0-0.1	Nov 17, 2020		Soil	S20-No32221				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
142	TP25_0.9-1.0	Nov 17, 2020		Soil	S20-No32222				X												
143	TP26_0.5-0.6	Nov 17, 2020		Soil	S20-No32223				X												
144	TP26_1.2-1.3	Nov 17, 2020		Soil	S20-No32224				X												
145	TP27_1.2-1.3	Nov 17, 2020		Soil	S20-No32225				X												
146	TP34_0.2-0.3	Nov 17, 2020		Soil	S20-No32226				X												
147	TP41_0-0.1	Nov 17, 2020		Soil	S20-No32227				X												
148	TP41_0.2-0.3	Nov 17, 2020		Soil	S20-No32228				X												
149	TP48_0.2-0.3	Nov 17, 2020		Soil	S20-No32229				X												
150	TP62_0-0.1	Nov 17, 2020		Soil	S20-No32230				X												
151	TP64_0-0.1	Nov 17, 2020		Soil	S20-No32231				X												
152	TP64_0.2-0.3	Nov 17, 2020		Soil	S20-No32232				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
153	TP65_0.2-0.3	Nov 17, 2020		Soil	S20-No32233				X												
154	TP66_0-0.1	Nov 17, 2020		Soil	S20-No32234				X												
155	TP66_0.2-0.3	Nov 17, 2020		Soil	S20-No32235				X												
156	TP67_0-0.1	Nov 17, 2020		Soil	S20-No32236				X												
157	TP67_0.2-0.3	Nov 17, 2020		Soil	S20-No32237				X												
158	TP68_0-0.1	Nov 17, 2020		Soil	S20-No32238				X												
159	TP68_0.2-0.3	Nov 17, 2020		Soil	S20-No32239				X												
160	TP69_0-0.1	Nov 17, 2020		Soil	S20-No32240				X												
161	TP70_0-0.1	Nov 17, 2020		Soil	S20-No32241				X												
162	TP71_0-0.1	Nov 17, 2020		Soil	S20-No32242				X												
163	TP71_0.2-0.3	Nov 17, 2020		Soil	S20-No32243				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
164	TP73_0-0.1	Nov 17, 2020		Soil	S20-No32244				X												
165	TP73_0.4-0.5	Nov 17, 2020		Soil	S20-No32245				X												
166	TP74_0-0.1	Nov 17, 2020		Soil	S20-No32246				X												
167	TP74_0.2-0.3	Nov 17, 2020		Soil	S20-No32247				X												
168	TP74_0.4-0.5	Nov 17, 2020		Soil	S20-No32248				X												
169	TP75_0-0.1	Nov 17, 2020		Soil	S20-No32249				X												
170	TP75_0.2-0.3	Nov 17, 2020		Soil	S20-No32250				X												
171	TP76_0-0.1	Nov 17, 2020		Soil	S20-No32251				X												
172	TP77_0-0.1	Nov 17, 2020		Soil	S20-No32252				X												
173	TP77_0.2-0.3	Nov 17, 2020		Soil	S20-No32253				X												
174	TP78_0-0.1	Nov 17, 2020		Soil	S20-No32254				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
175	TP78_0.5-0.6	Nov 17, 2020		Soil	S20-No32255				X												
176	TP78_0.9-1.0	Nov 17, 2020		Soil	S20-No32256				X												
177	TP79_0-0.1	Nov 17, 2020		Soil	S20-No32257				X												
178	TP79_0.5-0.6	Nov 17, 2020		Soil	S20-No32258				X												
179	TP80_0-0.1	Nov 17, 2020		Soil	S20-No32259				X												
180	TP80_0.2-0.3	Nov 17, 2020		Soil	S20-No32260				X												
181	TP81_0-0.1	Nov 17, 2020		Soil	S20-No32261				X												
182	TP81_0.3-0.4	Nov 17, 2020		Soil	S20-No32262				X												
183	TP82_0.2-0.3	Nov 17, 2020		Soil	S20-No32263				X												
184	TP83_0-0.1	Nov 17, 2020		Soil	S20-No32264				X												
185	TP83_0.2-0.3	Nov 17, 2020		Soil	S20-No32265				X												

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Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
186	TP84_0-0.1	Nov 17, 2020		Soil	S20-No32266				X												
187	TP84_0.5-0.6	Nov 17, 2020		Soil	S20-No32267				X												
188	TP85_0-0.1	Nov 17, 2020		Soil	S20-No32268				X												
189	TP85_0.5-0.6	Nov 17, 2020		Soil	S20-No32269				X												
190	TP86_0-0.1	Nov 17, 2020		Soil	S20-No32270				X												
191	TP86_0.5-0.6	Nov 17, 2020		Soil	S20-No32271				X												
192	TP87_0-0.1	Nov 17, 2020		Soil	S20-No32272				X												
193	TP87_0.3-0.4	Nov 17, 2020		Soil	S20-No32273				X												
194	TP88_0.2-0.3	Nov 17, 2020		Soil	S20-No32274				X												
195	TP89_0-0.1	Nov 17, 2020		Soil	S20-No32275				X												
196	TP89_0.3-0.4	Nov 17, 2020		Soil	S20-No32276				X												

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 757742
Phone: 02 8245 0300
Fax:

Received: Nov 18, 2020 6:58 PM
Due: Nov 20, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	CANCELLED	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Organochlorine Pesticides	Polychlorinated Biphenyls	AUS Leaching Procedure	USA Leaching Procedure	Metals M8	BTEX	Moisture Set	Cation Exchange Capacity	Eurofins Suite B7	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
197	TP90_0.3-0.4	Nov 17, 2020		Soil	S20-No32277				X												
198	TP91_0-0.1	Nov 17, 2020		Soil	S20-No32278				X												
199	TP91_0.5-0.6	Nov 17, 2020		Soil	S20-No32279				X												
200	TP92_0.5-0.6	Nov 17, 2020		Soil	S20-No32280				X												
201	TP93_0-0.1	Nov 17, 2020		Soil	S20-No32281				X												
202	TP93_0.3-0.4	Nov 17, 2020		Soil	S20-No32282				X												
203	TP94_0-0.1	Nov 17, 2020		Soil	S20-No32283				X												
204	TP94_0.3-0.4	Nov 17, 2020		Soil	S20-No32284				X												
205	TP95_0-0.1	Nov 17, 2020		Soil	S20-No32285				X												
206	TP95_0.4-0.5	Nov 17, 2020		Soil	S20-No32286				X												
207	TP96_0-0.1	Nov 17, 2020		Soil	S20-No32287				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
208	TP96_0.5-0.6	Nov 17, 2020		Soil	S20-No32288				X												
209	TP98_0-0.1	Nov 17, 2020		Soil	S20-No32289				X												
210	TP98_1.0-1.1	Nov 17, 2020		Soil	S20-No32290				X												
211	TP99_0-0.1	Nov 17, 2020		Soil	S20-No32291				X												
212	TP99_0.5-0.6	Nov 17, 2020		Soil	S20-No32292				X												
213	TP100_0-0.1	Nov 17, 2020		Soil	S20-No32293				X												
214	TP100_0.5-0.6	Nov 17, 2020		Soil	S20-No32294				X												
215	TP101_0-0.1	Nov 17, 2020		Soil	S20-No32295				X												
216	TP101_0.5-0.6	Nov 17, 2020		Soil	S20-No32296				X												
217	TP117_0-0.1	Nov 17, 2020		Soil	S20-No32297				X												
218	TP117_0.5-0.6	Nov 17, 2020		Soil	S20-No32298				X												

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
219	TP128_0.5-0.6	Nov 17, 2020		Soil	S20-No32299				X												
220	TP128_1.2-1.3	Nov 17, 2020		Soil	S20-No32300				X												
221	TP129_0-0.6	Nov 17, 2020		Soil	S20-No32301				X												
222	TP129_0-0.1	Nov 17, 2020		Soil	S20-No32302				X												
223	TP129_0.5-0.6	Nov 17, 2020		Soil	S20-No32303				X												
224	TP129_0.9-1.0	Nov 17, 2020		Soil	S20-No32304				X												
225	TP197_0.5-0.6	Nov 17, 2020		Soil	S20-No32305				X												
226	TP111_0.2-0.3	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No32306						X			X		X					
227	TP111_0.2-0.3	Nov 16, 2020		US Leachate	S20-No32307						X				X	X					

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Melbourne Laboratory - NATA Site # 1254 & 14271																			X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X															
Perth Laboratory - NATA Site # 23736																					
Mayfield Laboratory																					
External Laboratory																					
228	TP114_0-1.0	Nov 16, 2020		Soil	S20-No32412				X												
229	TP114A_0.2-0.3	Nov 16, 2020		Soil	S20-No32413				X												
230	TP114A_0.6-0.7	Nov 16, 2020		Soil	S20-No32414				X												
231	TP114A_1.0-1.1	Nov 16, 2020		Soil	S20-No32415				X												
232	TP114_1.0-1.1	Nov 16, 2020		Soil	S20-No32416				X												
233	TP55_0-0.1	Nov 16, 2020		Soil	S20-No32417				X												
234	TP55_0.2-0.3	Nov 16, 2020		Soil	S20-No32418				X												
Test Counts						1	34	4	159	1	18	18	8	1	1	19	1	42	1	21	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	85			70-130	Pass	
Toluene	%	84			70-130	Pass	
Ethylbenzene	%	84			70-130	Pass	
m&p-Xylenes	%	85			70-130	Pass	
o-Xylene	%	85			70-130	Pass	
Xylenes - Total*	%	85			70-130	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Authorised By

Ursula Long — Analytical Services Manager

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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019857

CHAIN OF CUSTODY

Pg 1/1 2

JBS&G

PROJECT NO.: S49884
PROJECT NAME: Manre Rd
DATE NEEDED BY: 48 hr
LABORATORY BATCH NO.:
SAMPLERS: CK, EP, JZ
QC LEVEL: NEPM (2013)
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) CKaufman@jbsg.com.au; (3) JZeng@jbsg.com.au EPiccinin@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	H.M.	PAH	PCB	OCP	TRH/BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP105_0-1.0	Soil	16/11/20		Bag		X							X	
_0.2-0.3				Jar										
_0.6-0.7							X	X	X		X			
_1.0-1.1														
TP105A_0-1.0				Bag		X							X	
_0.4-0.5				Jar										
_1.3-1.4														
TP106_0-1.0				Bag		X							X	
_0.2-0.3				Jar			X	X			X			
_0.6-0.7														
_1.2-1.3														
TP106A_0-1.0				Bag		X							X	
_0.2-0.3				Jar										
_0.6-0.7							X	X		X	X			
_1.0-1.1														
TP107_0-1.0				Bag		X							X	
_0.2-0.3				Jar			X	X		X	X			
_0.6-0.7														
_1.0-1.0														

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: UK DATE: 18.11.20	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes ✓ No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 6:55pm 18/11/20	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP 3.1 deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

757742

019858

CHAIN OF CUSTODY

Pg 2/13

JBS&G

PROJECT NO.: 59854	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos for PAH	PAH	OCP/PCB	H.M	TRH/BTEX	ASLP H.M	ASLP PAH	TCLP H.M	TCLP PAH	Cr(VI) pH	% clay	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP107-1.4-1.5	Soil	6/11/20		Jar			x		x										
TP108-0-1.0				Bag		x												x	
-0.2-0.3				Jar															
-0.6-0.7							x		x	x									
TP108A-0-0.9				Bag		x												x	
-0.2-0.3				Jar			x	x	x	x					x	x			
-0.6-0.7																			
-0.9-1.0																			
TP109-0-1.0				Bag		x												x	
-0.2-0.3				Jar			x		x										
-0.6-0.7							x	x	x	x									
-1.2-1.3																			
TP110-0-1.0				Bag		x												x	
-0.2-0.3				Jar															
-0.6-0.7							x		x	x									
-1.4-1.5							x		x	x									
TP111-0-1.0				Bag		x												x	
-0.2-0.3				Jar			x		x	x	x	x	x	x	x				
-0.6-0.7																			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6:58pm	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

757742

019859

CHAIN OF CUSTODY

Pg 3/13

JBS&G

PROJECT NO.: 59854	LABORATORY BATCH NO.:
PROJECT NAME: Manor Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	PAH	OCP/PCB	TRH/BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP111_1.0-1.1	Soil	16/11/20		Jar								
TP112_0-0.6				Bag		X					X	
_0.6-1.0				↓		X					X	
_0.2-0.3				Jar			X	X	X			
_0.6-0.7				↓								
_1.0-1.1												
TP113_0-1.0				Bag		X					X	
_0.2-0.3				Jar			X	X	X			
_0.6-0.7				↓								
_1.0-1.1												
TP114_0-1.0				Bag		X					X	
_0.2-0.3				Jar			X		X			
_0.6-0.7				↓								
TP115_0-1.0				Bag		X					X	
_0.2-0.3				Jar			X	X	X			NO OCP.
_0.6-0.7				↓								
_1.1-1.2												
TP116_0-1.0				Bag		X					X	
_0.5-0.6				Jar			X	X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes..✓.. No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 OF: 658 pm	COOLER TEMP 31 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

757742

019860

CHAIN OF CUSTODY

Pg 4/13

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
DATE NEEDED BY: 48 hr
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	PAH	TRH/BTEX	OCP/PCB	OCP	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP116_0.9-1.0	Soil	16/11/20		Jar		X	X	X					X	
↓ _1.1-1.2	↓	↓	↓	↓										
TP118_0-0.1				J+B		X	X	X	X	X			X	
_0.4-0.5				↓		X							X	
_0.6-0.7														
↓ _1.2-1.3				Jar										
TP119_0-0.1				J+B										
_0.4-0.5				↓										
_0.6-0.7														
↓ _1.2-1.3				Jar										
TP120_0-0.1				J+B		X	X	X		X			X	
_0.5-0.6				↓										
↓ _1.0-1.1				Jar										
TP121_0-0.1				J+B										
_0.5-0.6				↓		X							X	
↓ _1.0-1.1				Jar										
TP122_0-0.1				J+B			X	X		X				
_0.5-0.6				↓										
↓ _1.0-1.1	↓	↓	↓	Jar										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRDETT	COOLER SEAL – Yes.....~~No~~..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6:58pm OF:	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

757742

019861

CHAIN OF CUSTODY

P95/13

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

* Please change IDs for 128/129 on 16/11/20 to 128A / 129A.

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Metals 4	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP123_0.4-0.5	soil	16/11/20		J+B					
↓ _0.6-0.7	↓	↓		↓					
↓ _1.2-1.3				Jar					
TP124_0.4-0.5				J+B		X		✓	
↓ _1.0-1.1				Jar					
TP124A_0.2-0.3				J+B					
↓ _0.4-0.5				Jar					
TP125_0.4-0.5				J+B					
↓ _1.2-1.3				Jar					
TP126_0.4-0.5				J+B		X		X	
↓ _1.2-1.3				Jar					
TP127_0.4-0.5				J+B					
↓ _1.2-1.3				Jar					
TP128_0-0.1				J+B		X		X	TP128A
↓ _1.4-0.5				Jar					↓
TP129_0.2-0.3				J+B					*TP129A
↓ _0.5-0.6		↓		Jar					* ↓
TP01_0-0.1		17/11/20		J+B					
TP02_0=0.1	↓	↓		J+B					

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRLET	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 6.58pm 18/11/20	COOLER TEMP 3-1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 – Chain of Custody - Generic

757742

019862

CHAIN OF CUSTODY

PJ 6/13

JBS&G

PROJECT NO.: 59834	LABORATORY BATCH NO.:
PROJECT NAME: Hamre Rd	SAMPLERS:
DATE NEEDED BY: 48hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	OCP	1-1A	CEC	TRH/BTEX	As Sulfide	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP02_0.2-0.3	Soil	17/11/20		Jar		X	X	X	X				
TP03_0-0.1				J+B									
↓ _0.1-0.2				Jar									
TP04_0-0.1				J+B									
↓ _0.3-0.4				Jar									
TP05_0-0.1				J+B									
↓ _0.2-0.3				Jar									
TP06_0-0.1				J+B									
↓ _0.4-0.5				Jar									
TP07_0-0.1				J+B				X	X				
↓ _0.2-0.3				Jar									
TP13_0-0.1				J+B									
↓ _0.5-0.6				Jar									
↓ _1.0-1.1				↓									
TP24_0-0.1				J+B									
↓ _0.5-0.6				Jar									
↓ _1.2-1.3				↓									
TP25_0-0.1				J+B									
↓ _0.5-0.6	↓	↓	↓	↓		X	X	X					X

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes ~~No~~ ..... Intact ..... ~~Broken~~ .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6.58pm OF:	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

757742

019863

CHAIN OF CUSTODY

Pg 7/13

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	OCP	H.M	PAH	TRH/BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP25-0.9-1.0	Soil	17/11/20		Jar									
TP26-0-0.1	↓	↓		J+B		X		X	X			X	
↓ -0.5-0.6				↓									
↓ -1.2-1.3				Jar									
TP27-0-0.1				J+B		X						X	
↓ -1.2-1.3				Jar									
TP34-0-0.1				J+B			X						
↓ -0.2-0.3				Jar									
TP41-0-0.1				J+B									
↓ -0.2-0.3				Jar									
TP48-0-0.1				J+B		X						X	
↓ -0.2-0.3				Jar									
TP61-0-0.1				J+B			X						
TP62-0-0.1				J+B									
TP64-0-0.1				J+B									
↓ -0.2-0.3				Jar									
TP65-0-0.1				J+B		X	X	X	X	X			
↓ -0.2-0.3				Jar									
TP66-0-0.1	↓	↓		J+B									

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BLACKETT	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 13/11/20 OF: 6:52pm	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO Forms013 - Chain of Custody - Generic

757742

019864

CHAIN OF CUSTODY

P98/13

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manse Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	A·N	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: MEPHA/WA	NOTES:
TP66_0.2-0.3	Soil	17/11/20		Jar						
TP67_0-0.1	↓	↓		J+B						
TP67_0.2-0.3				↓						
TP68_0-0.1				J+B						
↓_0.2-0.3				Jar						
TP69_0-0.1				J+B						
↓_0.3-0.4				Jar		X	X			
TP70_0-0.1				J+B						
TP71_0-0.1				↓						
↓_0.2-0.3				Jar						
TP73_0-0.1				Jar+Bag						
↓_0.4-0.5				Jar						
TP74_0-0.1				J+B						
↓_0.2-0.3				Jar						
↓_0.4-0.5				↓						
TP75_0-0.1				J+B						
↓_0.2-0.3				Jar						
TP76_0-0.1				J+B						
↓_0.3-0.4	↓	↓		Jar		X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6-53pm	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Othe

IMSO Forms013 – Chain of Custody - Generic

757742

019865

CHAIN OF CUSTODY

PO 9/13

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manre Rd	SAMPLERS:
DATE NEEDED BY: 48 hr	QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/ANA	NOTES:
TP77_0-0.1	Soil	17/11/20		J+B							
↓ _0.2-0.3	↓	↓		Jar							
TP78_0-0.1				J+B							
↓ _0.5-0.6				Jar							
↓ _0.9-1.0				↓							
TP79_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP80_0-0.1				J+B							
↓ _0.2-0.3				Jar							
TP81_0-0.1				J+B							
↓ _0.3-0.4				Jar							
TP82_0-0.1				J+B		X	X	X		X	
↓ _0.2-0.3				Jar							
TP83_0-0.1				J+B							
↓ _0.2-0.3				Jar							
TP84_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP85_0-0.1	↓	↓		J+B							
↓ _0.5-0.6				Jar							

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes ✓ No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6.15pm	COOLER TEMP 5.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 - Chain of Custody - Generic

757742

019867

CHAIN OF CUSTODY

Pg 10/13

JBS&G

019866

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
DATE NEEDED BY: 48 hr
LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	PAH	OCP/PCB	TPH C6-C9	TPH C10-C36	OCO	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP86_0-0.1	Soil	17/11/20		J+B										
↓ _0.5-0.6	↓	↓		Jar										
TP87_0-0.1				J+B										
↓ _0.3-0.4				Jar										
TP88_0-0.1				J+B							X			
↓ _0.2-0.3				Jar										
TP89_0-0.1				J+B										
↓ _0.3-0.4				Jar										
TP90_0-0.1				J+B		X	X	X	X		X		X	
↓ _0.3-0.4				Jar										
TP91_0-0.1				J+B										
↓ _0.5-0.6				Jar										
TP92_0-0.1				J+B							X			
↓ _0.5-0.6				Jar										
TP93_0-0.1				J+B										
↓ _0.3-0.4				Jar										
TP94_0-0.1				J+B										
↓ _0.3-0.4				Jar										
TP95_0-0.1	↓	↓		J+B										

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes✓ No ..... Intact✓ ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6:58pm	COOLER TEMP 3.1 ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

757742

019867

CHAIN OF CUSTODY

Pg 11/13

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
DATE NEEDED BY: 48 hr
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID	HM	PAH	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP95_0.4-0.5	Soil	17/11/20		Jar							
TP96_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP98_0-0.1				J+B							
↓ _0.5-0.6				↓							
↓ _1.0-1.1				Jar		X	X				
TP99_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP100_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP101_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP117_0-0.1				J+B							
↓ _0.5-0.6				Jar							
TP128_0-1.0				Bag		X					
↓ _0-0.1				J+B						X	
↓ _0.5-0.6				↓						X	
↓ _1.2-1.3				Jar							
TP129_0-0.6				Bag							

RELINQUISHED BY:
NAME: DATE:
OF: JBS&G
NAME: DATE:
OF:

METHOD OF SHIPMENT:
CONSIGNMENT NOTE NO.
TRANSPORT CO.
CONSIGNMENT NOTE NO.
TRANSPORT CO

RECEIVED BY:
NAME: M BIRKETT
DATE: 18/11/20 6:53pm
OF:
NAME: DATE:
OF:

FOR RECEIVING LAB USE ONLY:
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP 3.1 deg C
COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

757742

019868

CHAIN OF CUSTODY

Pg 12/13

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
DATE NEEDED BY: 48hr

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos Lab	HM	PAH	OCP/OPP	TRH/BTEX	HM	PAH	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP129_0-0.1	soil	17/11/20		J+B												
_0.5-0.6	↓	↓		↓												
_0.9-1.0				Jar												
TP197_0-0.1				J+B		X	6								X	
_0.5-0.6				Jar												
QC01		16/11/20		Bag		X	~~HM~~								X	
QC02		↓		Jar			X	X		X						
QC03		16/11/20		Bag		X	~~HM~~								X	
QC04		↓		Jar			X	X	X	X						
QC05		17/11/20		Jar + Bag		X	~~HM~~				X	X			X	
QA01		16/11/20		Bag												Please send QA01, QA02, QA03, QA04, QA05 to Envirolab
QA02				Jar												
QA03				Bag												
QA04		↓		Jar												
QA05	↓	17/11/20		Jar + Bag												
TS	water	13/11/20		2x vials									X			
TB	↓	↓		↓									X			
SED01	soil	17/11/20		Jar			X	X	X	X						
SED02	↓	↓		↓			X	X	X	X						

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRKETT	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: OF: 18/11/20 6:38pm	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

757742

019870

CHAIN OF CUSTODY

Pg 13/13

JBS&G

PROJECT NO.: 59884
PROJECT NAME: Manse Rd
DATE NEEDED BY: 48 hr
PHONE: Sydney: 02 8245 0300 | Perth: 08 9488 0100 | Brisbane: 07 3112 2688
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .....@jbsg.com.au; (3) .....@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

LABORATORY BATCH NO.:
SAMPLERS:
QC LEVEL: NEPM (2013)

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	A.S	CRA	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
SED03	Soil	17/11/20		Jar		X	X			
SED04	↓	↓		↓		X	X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: M BIRCETT	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 18/11/20 6.55pm OF:	COOLER TEMP 3.1 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

757742

eurofins | Environment Testing

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NATA # 1261
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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	MAMRE RD
Project ID:	59884
Turnaround time:	2 Day
Date/Time received	Nov 18, 2020 6:58 PM
Eurofins reference	757742

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 3.1 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✓	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

TP113_0-1.0, TP113_0.2-0.3, TP113_0.6-0.7 and TP113_1.0-1.1 not received, analysis cancelled. Two sets of TP114_0-1.0, TP114_0.2-0.3, TP114_0.6-0.7 and TP114_1.0-1.1 received, samples collected by CK logged on hold as TP114A. TP114_1.0-1.1 (jar), TP55_0-0.1 (jar and bag) and TP55_0.2-0.3 (jar) received as extra and logged on hold. Two extra jars of TP108_0.2-0.3 received. QA01 (bag), QA02 (jar), QA03(bag), QA04 (jar) and QA05 (jar and bag) forwarded to Envirolab.
Samples received by the laboratory after 5.30pm are deemed to have been received the following working day.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **758326-S**
Project name MAMRE RD
Project ID 59884
Received Date Nov 20, 2020

Client Sample ID			**TP11_0-0.1**	**TP18_0-0.1**	**TP36_0-0.1**	**TP39_0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S20-No36684**	**S20-No36685**	**S20-No36687**	**S20-No36688**
Date Sampled			**Nov 19, 2020**	**Nov 19, 2020**	**Nov 19, 2020**	**Nov 19, 2020**
Test/Reference	LOR	Unit				
Organochlorine Pesticides						
Chlordanes - Total	0.1	mg/kg	< 0.1	-	-	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05	-	-	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05	-	-	< 0.05
a-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Aldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
b-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
d-BHC	0.05	mg/kg	< 0.05	-	-	< 0.05
Dieldrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05	-	-	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05	-	-	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05	-	-	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor	0.05	mg/kg	< 0.05	-	-	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05	-	-	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05	-	-	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2	-	-	< 0.2
Toxaphene	0.1	mg/kg	< 0.1	-	-	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05	-	-	< 0.05
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2	-	-	< 0.2
Dibutylchlorendate (surr.)	1	%	75	-	-	86
Tetrachloro-m-xylene (surr.)	1	%	83	-	-	85
Organophosphorus Pesticides						
Azinphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Bolstar	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2	-	-	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Coumaphos	2	mg/kg	< 2	-	-	< 2
Demeton-S	0.2	mg/kg	< 0.2	-	-	< 0.2

Client Sample ID			TP11_0-0.1	TP18_0-0.1	TP36_0-0.1	TP39_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No36684	S20-No36685	S20-No36687	S20-No36688
Date Sampled			Nov 19, 2020	Nov 19, 2020	Nov 19, 2020	Nov 19, 2020
Test/Reference	LOR	Unit				
Organophosphorus Pesticides						
Demeton-O	0.2	mg/kg	< 0.2	-	-	< 0.2
Diazinon	0.2	mg/kg	< 0.2	-	-	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2	-	-	< 0.2
Dimethoate	0.2	mg/kg	< 0.2	-	-	< 0.2
Disulfoton	0.2	mg/kg	< 0.2	-	-	< 0.2
EPN	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethion	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethoprop	0.2	mg/kg	< 0.2	-	-	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2	-	-	< 0.2
Fenthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Malathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Merphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2	-	-	< 0.2
Mevinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Monocrotophos	2	mg/kg	< 2	-	-	< 2
Naled	0.2	mg/kg	< 0.2	-	-	< 0.2
Omethoate	2	mg/kg	< 2	-	-	< 2
Phorate	0.2	mg/kg	< 0.2	-	-	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2	-	-	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2	-	-	< 0.2
Ronnel	0.2	mg/kg	< 0.2	-	-	< 0.2
Terbufos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2	-	-	< 0.2
Tokuthion	0.2	mg/kg	< 0.2	-	-	< 0.2
Trichloronate	0.2	mg/kg	< 0.2	-	-	< 0.2
Triphenylphosphate (surr.)	1	%	90	-	-	94
% Moisture	1	%	16	15	17	14
% Clay	1	%	-	-	15	-
Conductivity (1:5 aqueous extract at 25°C as rec.)	10	uS/cm	-	-	14	-
pH (1:5 Aqueous extract at 25°C as rec.)	0.1	pH Units	-	-	6.4	-
Polycyclic Aromatic Hydrocarbons						
Benzo(a)pyrene TEQ (lower bound) *	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene TEQ (medium bound) *	0.5	mg/kg	-	0.6	0.6	-
Benzo(a)pyrene TEQ (upper bound) *	0.5	mg/kg	-	1.2	1.2	-
Acenaphthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Acenaphthylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benz(a)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(a)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(b&j)fluoranthene[N07]	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(g.h.i)perylene	0.5	mg/kg	-	< 0.5	< 0.5	-
Benzo(k)fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Chrysene	0.5	mg/kg	-	< 0.5	< 0.5	-
Dibenz(a.h)anthracene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluoranthene	0.5	mg/kg	-	< 0.5	< 0.5	-
Fluorene	0.5	mg/kg	-	< 0.5	< 0.5	-

Client Sample ID			TP11_0-0.1	TP18_0-0.1	TP36_0-0.1	TP39_0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S20-No36684	S20-No36685	S20-No36687	S20-No36688
Date Sampled			Nov 19, 2020	Nov 19, 2020	Nov 19, 2020	Nov 19, 2020
Test/Reference	LOR	Unit				
Polycyclic Aromatic Hydrocarbons						
Indeno(1.2.3-cd)pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Naphthalene	0.5	mg/kg	-	< 0.5	< 0.5	-
Phenanthrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Pyrene	0.5	mg/kg	-	< 0.5	< 0.5	-
Total PAH*	0.5	mg/kg	-	< 0.5	< 0.5	-
2-Fluorobiphenyl (surr.)	1	%	-	104	92	-
p-Terphenyl-d14 (surr.)	1	%	-	99	87	-
Heavy Metals						
Arsenic	2	mg/kg	-	10	12	-
Cadmium	0.4	mg/kg	-	< 0.4	< 0.4	-
Chromium	5	mg/kg	-	28	21	-
Copper	5	mg/kg	-	21	32	-
Lead	5	mg/kg	-	25	25	-
Mercury	0.1	mg/kg	-	< 0.1	< 0.1	-
Nickel	5	mg/kg	-	14	26	-
Zinc	5	mg/kg	-	52	73	-
Cation Exchange Capacity						
Cation Exchange Capacity	0.05	meq/100g	-	-	2.7	-

Client Sample ID			TP47_0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S20-No36689
Date Sampled			Nov 19, 2020
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Chlordanes - Total	0.1	mg/kg	< 0.1
4.4'-DDD	0.05	mg/kg	< 0.05
4.4'-DDE	0.05	mg/kg	< 0.05
4.4'-DDT	0.05	mg/kg	< 0.05
a-BHC	0.05	mg/kg	< 0.05
Aldrin	0.05	mg/kg	< 0.05
b-BHC	0.05	mg/kg	< 0.05
d-BHC	0.05	mg/kg	< 0.05
Dieldrin	0.05	mg/kg	< 0.05
Endosulfan I	0.05	mg/kg	< 0.05
Endosulfan II	0.05	mg/kg	< 0.05
Endosulfan sulphate	0.05	mg/kg	< 0.05
Endrin	0.05	mg/kg	< 0.05
Endrin aldehyde	0.05	mg/kg	< 0.05
Endrin ketone	0.05	mg/kg	< 0.05
g-BHC (Lindane)	0.05	mg/kg	< 0.05
Heptachlor	0.05	mg/kg	< 0.05
Heptachlor epoxide	0.05	mg/kg	< 0.05
Hexachlorobenzene	0.05	mg/kg	< 0.05
Methoxychlor	0.2	mg/kg	< 0.2
Toxaphene	0.1	mg/kg	< 0.1
Aldrin and Dieldrin (Total)*	0.05	mg/kg	< 0.05
DDT + DDE + DDD (Total)*	0.05	mg/kg	< 0.05

Client Sample ID			TP47_0-0.1
Sample Matrix			Soil
Eurofins Sample No.			S20-No36689
Date Sampled			Nov 19, 2020
Test/Reference	LOR	Unit	
Organochlorine Pesticides			
Vic EPA IWRG 621 OCP (Total)*	0.1	mg/kg	< 0.2
Vic EPA IWRG 621 Other OCP (Total)*	0.1	mg/kg	< 0.2
Dibutylchlorendate (surr.)	1	%	81
Tetrachloro-m-xylene (surr.)	1	%	82
Organophosphorus Pesticides			
Azinphos-methyl	0.2	mg/kg	< 0.2
Bolstar	0.2	mg/kg	< 0.2
Chlorfenvinphos	0.2	mg/kg	< 0.2
Chlorpyrifos	0.2	mg/kg	< 0.2
Chlorpyrifos-methyl	0.2	mg/kg	< 0.2
Coumaphos	2	mg/kg	< 2
Demeton-S	0.2	mg/kg	< 0.2
Demeton-O	0.2	mg/kg	< 0.2
Diazinon	0.2	mg/kg	< 0.2
Dichlorvos	0.2	mg/kg	< 0.2
Dimethoate	0.2	mg/kg	< 0.2
Disulfoton	0.2	mg/kg	< 0.2
EPN	0.2	mg/kg	< 0.2
Ethion	0.2	mg/kg	< 0.2
Ethoprop	0.2	mg/kg	< 0.2
Ethyl parathion	0.2	mg/kg	< 0.2
Fenitrothion	0.2	mg/kg	< 0.2
Fensulfothion	0.2	mg/kg	< 0.2
Fenthion	0.2	mg/kg	< 0.2
Malathion	0.2	mg/kg	< 0.2
Merphos	0.2	mg/kg	< 0.2
Methyl parathion	0.2	mg/kg	< 0.2
Mevinphos	0.2	mg/kg	< 0.2
Monocrotophos	2	mg/kg	< 2
Naled	0.2	mg/kg	< 0.2
Omethoate	2	mg/kg	< 2
Phorate	0.2	mg/kg	< 0.2
Pirimiphos-methyl	0.2	mg/kg	< 0.2
Pyrazophos	0.2	mg/kg	< 0.2
Ronnel	0.2	mg/kg	< 0.2
Terbufos	0.2	mg/kg	< 0.2
Tetrachlorvinphos	0.2	mg/kg	< 0.2
Tokuthion	0.2	mg/kg	< 0.2
Trichloronate	0.2	mg/kg	< 0.2
Triphenylphosphate (surr.)	1	%	93
% Moisture	1	%	11

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
Organochlorine Pesticides	Sydney	Nov 23, 2020	14 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 23, 2020	14 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Metals M8	Sydney	Nov 23, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
Organophosphorus Pesticides	Sydney	Nov 23, 2020	14 Days
- Method: LTM-ORG-2200 Organophosphorus Pesticides by GC-MS			
% Moisture	Sydney	Nov 20, 2020	14 Days
- Method: LTM-GEN-7080 Moisture			
% Clay	Brisbane	Nov 24, 2020	14 Days
- Method: LTM-GEN-7040			
pH (1:5 Aqueous extract at 25°C as rec.)	Sydney	Nov 23, 2020	7 Days
- Method: LTM-GEN-7090 pH in soil by ISE			
Conductivity (1:5 aqueous extract at 25°C as rec.)	Sydney	Nov 24, 2020	7 Days
- Method: LTM-INO-4030 Conductivity			
Cation Exchange Capacity	Melbourne	Nov 25, 2020	180 Days
- Method: LTM-MET-3060 Cation Exchange Capacity by bases & Exchangeable Sodium Percentage			

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 758326
Phone: 02 8245 0300
Fax:

Received: Nov 20, 2020 6:25 PM
Due: Nov 24, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	TP11_0-0.1	Nov 19, 2020		Soil	S20-No36684		X						X	X			
2	TP18_0-0.1	Nov 19, 2020		Soil	S20-No36685					X	X			X			
3	TP21_0-0.1	Nov 19, 2020		Soil	S20-No36686		X										
4	TP36_0-0.1	Nov 19, 2020		Soil	S20-No36687	X			X	X	X			X	X		
5	TP39_0-0.1	Nov 19, 2020		Soil	S20-No36688		X						X	X			
6	TP47_0-0.1	Nov 19, 2020		Soil	S20-No36689		X						X	X			
7	RZ11_0-0.1	Nov 19, 2020		Soil	S20-No36690		X										
8	TS	Nov 19, 2020		Water	S20-No36691												X
9	TB	Nov 19, 2020		Water	S20-No36692							X					

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
10	RIN01	Nov 19, 2020		Water	S20-No36693											X	
11	TP08_0-0.1	Nov 19, 2020		Soil	S20-No36694			X									
12	TP09_0-0.1	Nov 19, 2020		Soil	S20-No36695			X									
13	TP10_0-0.1	Nov 19, 2020		Soil	S20-No36696			X									
14	TP12_0-0.1	Nov 19, 2020		Soil	S20-No36697			X									
15	TP14_0-0.1	Nov 19, 2020		Soil	S20-No36698			X									
16	TP15_0-0.1	Nov 19, 2020		Soil	S20-No36699			X									
17	TP16_0-0.1	Nov 19, 2020		Soil	S20-No36700			X									
18	TP17_0-0.1	Nov 19, 2020		Soil	S20-No36701			X									
19	TP19_0-0.1	Nov 19, 2020		Soil	S20-No36702			X									
20	TP20_0-0.1	Nov 19, 2020		Soil	S20-No36703			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
21	TP22_0-0.1	Nov 19, 2020		Soil	S20-No36704			X									
22	TP23_0-0.1	Nov 19, 2020		Soil	S20-No36705			X									
23	TP28_0-0.1	Nov 19, 2020		Soil	S20-No36706			X									
24	TP29_0-0.1	Nov 19, 2020		Soil	S20-No36707			X									
25	TP30_0-0.1	Nov 19, 2020		Soil	S20-No36708			X									
26	TP31_0-0.1	Nov 19, 2020		Soil	S20-No36709			X									
27	TP32_0-0.1	Nov 19, 2020		Soil	S20-No36710			X									
28	TP33_0-0.1	Nov 19, 2020		Soil	S20-No36711			X									
29	TP35_0-0.1	Nov 19, 2020		Soil	S20-No36712			X									
30	TP37_0-0.1	Nov 19, 2020		Soil	S20-No36713			X									
31	TP38_0-0.1	Nov 19, 2020		Soil	S20-No36714			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
32	TP40_0-0.1	Nov 19, 2020		Soil	S20-No36715			X									
33	TP46_0-0.1	Nov 19, 2020		Soil	S20-No36716			X									
34	TP100_0-0.1	Nov 19, 2020		Soil	S20-No36717			X									
35	TP132_0-0.1	Nov 19, 2020		Soil	S20-No36718			X									
36	TP72_0-0.1	Nov 19, 2020		Soil	S20-No36900			X									
37	TP102_0.2-0.3	Nov 19, 2020		Soil	S20-No36901			X									
38	TP102_0.7-0.8	Nov 19, 2020		Soil	S20-No36902			X									
39	TP102_1.2-1.3	Nov 19, 2020		Soil	S20-No36903			X									
40	TP103_0.2-0.3	Nov 19, 2020		Soil	S20-No36904			X									
41	TP103_0.7-0.8	Nov 19, 2020		Soil	S20-No36905			X									
42	TP103_1.2-1.3	Nov 19, 2020		Soil	S20-No36906			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
43	TP104_0-0.1	Nov 19, 2020		Soil	S20-No36907			X									
44	TP104_0.3-0.4	Nov 19, 2020		Soil	S20-No36908			X									
Test Counts						1	5	34	1	2	2	1	3	5	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/kg	< 0.1			0.1	Pass	
4.4'-DDD	mg/kg	< 0.05			0.05	Pass	
4.4'-DDE	mg/kg	< 0.05			0.05	Pass	
4.4'-DDT	mg/kg	< 0.05			0.05	Pass	
a-BHC	mg/kg	< 0.05			0.05	Pass	
Aldrin	mg/kg	< 0.05			0.05	Pass	
b-BHC	mg/kg	< 0.05			0.05	Pass	
d-BHC	mg/kg	< 0.05			0.05	Pass	
Dieldrin	mg/kg	< 0.05			0.05	Pass	
Endosulfan I	mg/kg	< 0.05			0.05	Pass	
Endosulfan II	mg/kg	< 0.05			0.05	Pass	
Endosulfan sulphate	mg/kg	< 0.05			0.05	Pass	
Endrin	mg/kg	< 0.05			0.05	Pass	
Endrin aldehyde	mg/kg	< 0.05			0.05	Pass	
Endrin ketone	mg/kg	< 0.05			0.05	Pass	
g-BHC (Lindane)	mg/kg	< 0.05			0.05	Pass	
Heptachlor	mg/kg	< 0.05			0.05	Pass	
Heptachlor epoxide	mg/kg	< 0.05			0.05	Pass	
Hexachlorobenzene	mg/kg	< 0.05			0.05	Pass	
Methoxychlor	mg/kg	< 0.2			0.2	Pass	
Toxaphene	mg/kg	< 0.1			0.1	Pass	
Method Blank							
Organophosphorus Pesticides							
Azinphos-methyl	mg/kg	< 0.2			0.2	Pass	
Bolstar	mg/kg	< 0.2			0.2	Pass	
Chlorfenvinphos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos	mg/kg	< 0.2			0.2	Pass	
Chlorpyrifos-methyl	mg/kg	< 0.2			0.2	Pass	
Coumaphos	mg/kg	< 2			2	Pass	
Demeton-S	mg/kg	< 0.2			0.2	Pass	
Demeton-O	mg/kg	< 0.2			0.2	Pass	
Diazinon	mg/kg	< 0.2			0.2	Pass	
Dichlorvos	mg/kg	< 0.2			0.2	Pass	
Dimethoate	mg/kg	< 0.2			0.2	Pass	
Disulfoton	mg/kg	< 0.2			0.2	Pass	
EPN	mg/kg	< 0.2			0.2	Pass	
Ethion	mg/kg	< 0.2			0.2	Pass	
Ethoprop	mg/kg	< 0.2			0.2	Pass	
Ethyl parathion	mg/kg	< 0.2			0.2	Pass	
Fenitrothion	mg/kg	< 0.2			0.2	Pass	
Fensulfothion	mg/kg	< 0.2			0.2	Pass	
Fenthion	mg/kg	< 0.2			0.2	Pass	
Malathion	mg/kg	< 0.2			0.2	Pass	
Merphos	mg/kg	< 0.2			0.2	Pass	
Methyl parathion	mg/kg	< 0.2			0.2	Pass	
Mevinphos	mg/kg	< 0.2			0.2	Pass	
Monocrotophos	mg/kg	< 2			2	Pass	
Naled	mg/kg	< 0.2			0.2	Pass	
Omethoate	mg/kg	< 2			2	Pass	
Phorate	mg/kg	< 0.2			0.2	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Pirimiphos-methyl	mg/kg	< 0.2			0.2	Pass	
Pyrazophos	mg/kg	< 0.2			0.2	Pass	
Ronnel	mg/kg	< 0.2			0.2	Pass	
Terbufos	mg/kg	< 0.2			0.2	Pass	
Tetrachlorvinphos	mg/kg	< 0.2			0.2	Pass	
Tokuthion	mg/kg	< 0.2			0.2	Pass	
Trichloronate	mg/kg	< 0.2			0.2	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/kg	< 0.5			0.5	Pass	
Acenaphthylene	mg/kg	< 0.5			0.5	Pass	
Anthracene	mg/kg	< 0.5			0.5	Pass	
Benz(a)anthracene	mg/kg	< 0.5			0.5	Pass	
Benzo(a)pyrene	mg/kg	< 0.5			0.5	Pass	
Benzo(b&j)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Benzo(g.h.i)perylene	mg/kg	< 0.5			0.5	Pass	
Benzo(k)fluoranthene	mg/kg	< 0.5			0.5	Pass	
Chrysene	mg/kg	< 0.5			0.5	Pass	
Dibenz(a.h)anthracene	mg/kg	< 0.5			0.5	Pass	
Fluoranthene	mg/kg	< 0.5			0.5	Pass	
Fluorene	mg/kg	< 0.5			0.5	Pass	
Indeno(1.2.3-cd)pyrene	mg/kg	< 0.5			0.5	Pass	
Naphthalene	mg/kg	< 0.5			0.5	Pass	
Phenanthrene	mg/kg	< 0.5			0.5	Pass	
Pyrene	mg/kg	< 0.5			0.5	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/kg	< 2			2	Pass	
Cadmium	mg/kg	< 0.4			0.4	Pass	
Chromium	mg/kg	< 5			5	Pass	
Copper	mg/kg	< 5			5	Pass	
Lead	mg/kg	< 5			5	Pass	
Mercury	mg/kg	< 0.1			0.1	Pass	
Nickel	mg/kg	< 5			5	Pass	
Zinc	mg/kg	< 5			5	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	83			70-130	Pass	
4.4'-DDD	%	71			70-130	Pass	
4.4'-DDE	%	77			70-130	Pass	
4.4'-DDT	%	118			70-130	Pass	
a-BHC	%	90			70-130	Pass	
Aldrin	%	73			70-130	Pass	
b-BHC	%	96			70-130	Pass	
d-BHC	%	91			70-130	Pass	
Dieldrin	%	97			70-130	Pass	
Endosulfan I	%	79			70-130	Pass	
Endosulfan II	%	93			70-130	Pass	
Endosulfan sulphate	%	71			70-130	Pass	
Endrin	%	93			70-130	Pass	
Endrin aldehyde	%	111			70-130	Pass	
Endrin ketone	%	87			70-130	Pass	
g-BHC (Lindane)	%	70			70-130	Pass	
Heptachlor	%	100			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Heptachlor epoxide	%	73			70-130	Pass	
Hexachlorobenzene	%	97			70-130	Pass	
Methoxychlor	%	122			70-130	Pass	
LCS - % Recovery							
Organophosphorus Pesticides							
Diazinon	%	102			70-130	Pass	
Dimethoate	%	104			70-130	Pass	
Ethion	%	73			70-130	Pass	
Fenitrothion	%	82			70-130	Pass	
Methyl parathion	%	90			70-130	Pass	
Mevinphos	%	127			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	76			70-130	Pass	
Acenaphthylene	%	83			70-130	Pass	
Anthracene	%	81			70-130	Pass	
Benz(a)anthracene	%	85			70-130	Pass	
Benzo(a)pyrene	%	72			70-130	Pass	
Benzo(b&j)fluoranthene	%	73			70-130	Pass	
Benzo(g.h.i)perylene	%	70			70-130	Pass	
Benzo(k)fluoranthene	%	84			70-130	Pass	
Chrysene	%	84			70-130	Pass	
Dibenz(a.h)anthracene	%	77			70-130	Pass	
Fluoranthene	%	90			70-130	Pass	
Fluorene	%	83			70-130	Pass	
Naphthalene	%	87			70-130	Pass	
Phenanthrene	%	81			70-130	Pass	
Pyrene	%	88			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	92			80-120	Pass	
Cadmium	%	95			80-120	Pass	
Chromium	%	95			80-120	Pass	
Copper	%	95			80-120	Pass	
Lead	%	95			80-120	Pass	
Mercury	%	98			80-120	Pass	
Nickel	%	102			80-120	Pass	
Zinc	%	100			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Organochlorine Pesticides				Result 1					
Chlordanes - Total	S20-No31474	NCP	%	91			70-130	Pass	
4.4'-DDE	S20-No31474	NCP	%	87			70-130	Pass	
4.4'-DDT	S20-No31474	NCP	%	73			70-130	Pass	
Aldrin	S20-No31474	NCP	%	82			70-130	Pass	
Endosulfan I	S20-No31474	NCP	%	84			70-130	Pass	
Endrin	S20-No31474	NCP	%	71			70-130	Pass	
Endrin ketone	S20-No31474	NCP	%	88			70-130	Pass	
g-BHC (Lindane)	S20-No31474	NCP	%	74			70-130	Pass	
Heptachlor epoxide	S20-No31474	NCP	%	70			70-130	Pass	
Hexachlorobenzene	S20-No31474	NCP	%	105			70-130	Pass	
Methoxychlor	S20-No31474	NCP	%	81			70-130	Pass	
Spike - % Recovery									
Organophosphorus Pesticides				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Diazinon	S20-No31832	NCP	%	130			70-130	Pass	
Dimethoate	S20-No31474	NCP	%	87			70-130	Pass	
Ethion	S20-No31832	NCP	%	92			70-130	Pass	
Fenitrothion	S20-No31832	NCP	%	122			70-130	Pass	
Methyl parathion	S20-No31832	NCP	%	120			70-130	Pass	
Mevinphos	S20-No31474	NCP	%	88			70-130	Pass	
Spike - % Recovery									
Polycyclic Aromatic Hydrocarbons				Result 1					
Acenaphthene	S20-No34513	NCP	%	79			70-130	Pass	
Acenaphthylene	S20-No34513	NCP	%	87			70-130	Pass	
Anthracene	S20-No34513	NCP	%	82			70-130	Pass	
Benz(a)anthracene	S20-No34513	NCP	%	82			70-130	Pass	
Benzo(a)pyrene	S20-No34513	NCP	%	83			70-130	Pass	
Benzo(b&j)fluoranthene	S20-No34513	NCP	%	81			70-130	Pass	
Benzo(g.h.i)perylene	S20-No24784	NCP	%	107			70-130	Pass	
Benzo(k)fluoranthene	S20-No34513	NCP	%	72			70-130	Pass	
Chrysene	S20-No34513	NCP	%	87			70-130	Pass	
Dibenz(a.h)anthracene	S20-No24784	NCP	%	109			70-130	Pass	
Fluoranthene	S20-No34513	NCP	%	90			70-130	Pass	
Fluorene	S20-No34513	NCP	%	87			70-130	Pass	
Indeno(1.2.3-cd)pyrene	S20-No24784	NCP	%	106			70-130	Pass	
Naphthalene	S20-No34513	NCP	%	94			70-130	Pass	
Phenanthrene	S20-No34513	NCP	%	99			70-130	Pass	
Pyrene	S20-No34513	NCP	%	87			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No32672	NCP	%	117			75-125	Pass	
Cadmium	S20-No38128	NCP	%	84			75-125	Pass	
Mercury	S20-No38128	NCP	%	87			75-125	Pass	
Nickel	S20-No38128	NCP	%	77			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Organochlorine Pesticides				Result 1	Result 2	RPD			
Chlordanes - Total	S20-No27817	NCP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
4.4'-DDD	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDE	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
4.4'-DDT	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
a-BHC	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Aldrin	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
b-BHC	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
d-BHC	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Dieldrin	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan I	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan II	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endosulfan sulphate	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin aldehyde	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Endrin ketone	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
g-BHC (Lindane)	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Heptachlor epoxide	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Hexachlorobenzene	S20-No27817	NCP	mg/kg	< 0.05	< 0.05	<1	30%	Pass	
Methoxychlor	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass	

Duplicate								
Organophosphorus Pesticides				Result 1	Result 2	RPD		
Azinphos-methyl	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Bolstar	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorfenvinphos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Chlorpyrifos-methyl	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Coumaphos	S20-No27817	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Demeton-S	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Demeton-O	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Diazinon	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dichlorvos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Dimethoate	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Disulfoton	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
EPN	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethoprop	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ethyl parathion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenitrothion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fensulfothion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Fenthion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Malathion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Merphos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Methyl parathion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Mevinphos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Monocrotophos	S20-No27817	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Naled	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Omethoate	S20-No27817	NCP	mg/kg	< 2	< 2	<1	30%	Pass
Phorate	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pirimiphos-methyl	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Pyrazophos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Ronnel	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Terbufos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tetrachlorvinphos	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Tokuthion	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Trichloronate	S20-No27817	NCP	mg/kg	< 0.2	< 0.2	<1	30%	Pass
Duplicate								
Polycyclic Aromatic Hydrocarbons				Result 1	Result 2	RPD		
Acenaphthene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Acenaphthylene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Anthracene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benz(a)anthracene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(a)pyrene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(b&j)fluoranthene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(g.h.i)perylene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Benzo(k)fluoranthene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Chrysene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Dibenz(a.h)anthracene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluoranthene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Fluorene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Indeno(1.2.3-cd)pyrene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Naphthalene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Phenanthrene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass
Pyrene	S20-No39361	NCP	mg/kg	< 0.5	< 0.5	<1	30%	Pass

Duplicate									
				Result 1	Result 2	RPD			
pH (1:5 Aqueous extract at 25°C as rec.)	S20-No29826	NCP	pH Units	6.2	6.2	Pass	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No36687	CP	mg/kg	12	11	6.0	30%	Pass	
Cadmium	S20-No36687	CP	mg/kg	< 0.4	< 0.4	<1	30%	Pass	
Chromium	S20-No36687	CP	mg/kg	21	21	3.0	30%	Pass	
Copper	S20-No36687	CP	mg/kg	32	32	2.0	30%	Pass	
Lead	S20-No36687	CP	mg/kg	25	23	6.0	30%	Pass	
Mercury	S20-No36687	CP	mg/kg	< 0.1	< 0.1	<1	30%	Pass	
Nickel	S20-No36687	CP	mg/kg	26	25	1.0	30%	Pass	
Zinc	S20-No36687	CP	mg/kg	73	72	2.0	30%	Pass	
Duplicate									
				Result 1	Result 2	RPD			
% Moisture	S20-No36689	CP	%	11	14	24	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Emily Rosenberg	Senior Analyst-Metal (VIC)
Gabriele Cordero	Senior Analyst-Inorganic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)
Jonathon Angell	Senior Analyst-Inorganic (QLD)
Nibha Vaidya	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Certificate of Analysis

Environment Testing

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

Attention:	Chris Kauffman
Report	758326-AID
Project Name	MAMRE RD
Project ID	59884
Received Date	Nov 20, 2020
Date Reported	Nov 25, 2020

Methodology:

Asbestos Fibre Identification	Conducted in accordance with the Australian Standard AS 4964 – 2004: Method for the Qualitative Identification of Asbestos in Bulk Samples and in-house Method LTM-ASB-8020 by polarised light microscopy (PLM) and dispersion staining (DS) techniques. *NOTE: Positive Trace Analysis results indicate the sample contains detectable respirable fibres.*
Unknown Mineral Fibres	Mineral fibres of unknown type, as determined by PLM with DS, may require another analytical technique, such as Electron Microscopy, to confirm unequivocal identity. *NOTE: While Actinolite, Anthophyllite and Tremolite asbestos may be detected by PLM with DS, due to variability in the optical properties of these materials, AS4964 requires that these are reported as UMF unless confirmed by an independent technique.*
Subsampling Soil Samples	The whole sample submitted is first dried and then passed through a 10mm sieve followed by a 2mm sieve. All fibrous matter greater than 10mm, greater than 2mm as well as the material passing through the 2mm sieve are retained and analysed for the presence of asbestos. If the sub 2mm fraction is greater than approximately 30 to 60g then a sub-sampling routine based on ISO 3082:2009(E) is employed. *NOTE: Depending on the nature and size of the soil sample, the sub-2 mm residue material may need to be sub-sampled for trace analysis, in accordance with AS 4964-2004.*
Bonded asbestos-containing material (ACM)	The material is first examined and any fibres isolated for identification by PLM and DS. Where required, interfering matrices may be removed by disintegration using a range of heat, chemical or physical treatments, possibly in combination.The resultant material is then further examined in accordance with AS 4964 - 2004. *NOTE: Even after disintegration it may be difficult to detect the presence of asbestos in some asbestos-containing bulk materials using PLM and DS. This is due to the low grade or small length or diameter of the asbestos fibres present in the material, or to the fact that very fine fibres have been distributed intimately throughout the materials. Vinyl/asbestos floor tiles, some asbestos-containing sealants and mastics, asbestos-containing epoxy resins and some ore samples are examples of these types of material, which are difficult to analyse.*
Limit of Reporting	The performance limitation of the AS 4964 (2004) method for non-homogeneous samples is around 0.1 g/kg (equivalent to 0.01% (w/w)). Where no asbestos is found by PLM and DS, including Trace Analysis, this is considered to be at the nominal reporting limit of 0.01% (w/w). The NEPM screening level of 0.001% (w/w) is intended as an on-site determination, not a laboratory Limit of Reporting (LOR), per se. Examination of a large sample size (e.g. 500 mL) may improve the likelihood of detecting asbestos, particularly AF, to aid assessment against the NEPM criteria. Gravimetric determinations to this level of accuracy are outside of AS 4964 and hence NATA Accreditation does not cover the performance of this service (non-NATA results shown with an asterisk). *NOTE: NATA News March 2014, p.7, states in relation to AS 4964: "This is a qualitative method with a nominal reporting limit of 0.01 % " and that currently in Australia "there is no validated method available for the quantification of asbestos".This report is consistent with the analytical procedures and reporting recommendations in the NEPM and the WA DoH.*

Accredited for compliance with ISO/IEC 17025–Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Project Name MAMRE RD
Project ID 59884
Date Sampled Nov 19, 2020
Report 758326-AID

Client Sample ID	Eurofins Sample No.	Date Sampled	Sample Description	Result
TP11_0-0.1	20-No36684	Nov 19, 2020	Approximate Sample 505g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP21_0-0.1	20-No36686	Nov 19, 2020	Approximate Sample 645g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP39_0-0.1	20-No36688	Nov 19, 2020	Approximate Sample 724g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
TP47_0-0.1	20-No36689	Nov 19, 2020	Approximate Sample 613g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.
RZ11_0-0.1	20-No36690	Nov 19, 2020	Approximate Sample 699g Sample consisted of: Brown fine-grained clayey soil and rocks	No asbestos detected at the reporting limit of 0.001% w/w.* Organic fibre detected. No trace asbestos detected.

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Asbestos - LTM-ASB-8020	Sydney	Nov 20, 2020	Indefinite

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IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 758326
Phone: 02 8245 0300
Fax:

Received: Nov 20, 2020 6:25 PM
Due: Nov 25, 2020
Priority: 3 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						% Clay	Asbestos - WA guidelines	HOLD	pH (1:5 Aqueous extract at 25°C as rec.)	Polycyclic Aromatic Hydrocarbons	Metals M8	BTEX	Suite B14: OCP/OPP	Moisture Set	Cation Exchange Capacity	JBS&G Suite 2	BTEX
Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	TP11_0-0.1	Nov 19, 2020		Soil	S20-No36684		X						X	X			
2	TP18_0-0.1	Nov 19, 2020		Soil	S20-No36685					X	X			X			
3	TP21_0-0.1	Nov 19, 2020		Soil	S20-No36686		X										
4	TP36_0-0.1	Nov 19, 2020		Soil	S20-No36687	X			X	X	X			X	X		
5	TP39_0-0.1	Nov 19, 2020		Soil	S20-No36688		X						X	X			
6	TP47_0-0.1	Nov 19, 2020		Soil	S20-No36689		X						X	X			
7	RZ11_0-0.1	Nov 19, 2020		Soil	S20-No36690		X										
8	TS	Nov 19, 2020		Water	S20-No36691												X
9	TB	Nov 19, 2020		Water	S20-No36692							X					

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
10	RIN01	Nov 19, 2020		Water	S20-No36693											X	
11	TP08_0-0.1	Nov 19, 2020		Soil	S20-No36694			X									
12	TP09_0-0.1	Nov 19, 2020		Soil	S20-No36695			X									
13	TP10_0-0.1	Nov 19, 2020		Soil	S20-No36696			X									
14	TP12_0-0.1	Nov 19, 2020		Soil	S20-No36697			X									
15	TP14_0-0.1	Nov 19, 2020		Soil	S20-No36698			X									
16	TP15_0-0.1	Nov 19, 2020		Soil	S20-No36699			X									
17	TP16_0-0.1	Nov 19, 2020		Soil	S20-No36700			X									
18	TP17_0-0.1	Nov 19, 2020		Soil	S20-No36701			X									
19	TP19_0-0.1	Nov 19, 2020		Soil	S20-No36702			X									
20	TP20_0-0.1	Nov 19, 2020		Soil	S20-No36703			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
21	TP22_0-0.1	Nov 19, 2020		Soil	S20-No36704			X									
22	TP23_0-0.1	Nov 19, 2020		Soil	S20-No36705			X									
23	TP28_0-0.1	Nov 19, 2020		Soil	S20-No36706			X									
24	TP29_0-0.1	Nov 19, 2020		Soil	S20-No36707			X									
25	TP30_0-0.1	Nov 19, 2020		Soil	S20-No36708			X									
26	TP31_0-0.1	Nov 19, 2020		Soil	S20-No36709			X									
27	TP32_0-0.1	Nov 19, 2020		Soil	S20-No36710			X									
28	TP33_0-0.1	Nov 19, 2020		Soil	S20-No36711			X									
29	TP35_0-0.1	Nov 19, 2020		Soil	S20-No36712			X									
30	TP37_0-0.1	Nov 19, 2020		Soil	S20-No36713			X									
31	TP38_0-0.1	Nov 19, 2020		Soil	S20-No36714			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
32	TP40_0-0.1	Nov 19, 2020		Soil	S20-No36715			X									
33	TP46_0-0.1	Nov 19, 2020		Soil	S20-No36716			X									
34	TP100_0-0.1	Nov 19, 2020		Soil	S20-No36717			X									
35	TP132_0-0.1	Nov 19, 2020		Soil	S20-No36718			X									
36	TP72_0-0.1	Nov 19, 2020		Soil	S20-No36900			X									
37	TP102_0.2-0.3	Nov 19, 2020		Soil	S20-No36901			X									
38	TP102_0.7-0.8	Nov 19, 2020		Soil	S20-No36902			X									
39	TP102_1.2-1.3	Nov 19, 2020		Soil	S20-No36903			X									
40	TP103_0.2-0.3	Nov 19, 2020		Soil	S20-No36904			X									
41	TP103_0.7-0.8	Nov 19, 2020		Soil	S20-No36905			X									
42	TP103_1.2-1.3	Nov 19, 2020		Soil	S20-No36906			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
43	TP104_0-0.1	Nov 19, 2020		Soil	S20-No36907			X									
44	TP104_0.3-0.4	Nov 19, 2020		Soil	S20-No36908			X									
Test Counts						1	5	34	1	2	2	1	3	5	1	1	1

Internal Quality Control Review and Glossary

General

1. QC data may be available on request.
2. All soil results are reported on a dry basis, unless otherwise stated.
3. Samples were analysed on an 'as received' basis.
4. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
5. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample Receipt Advice.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

Units

% w/w: weight for weight basis	grams per kilogram
Filter loading:	fibres/100 graticule areas
Reported Concentration:	fibres/mL
Flowrate:	L/min

Terms

Dry	Sample is dried by heating prior to analysis
LOR	Limit of Reporting
COC	Chain of Custody
SRA	Sample Receipt Advice
ISO	International Standards Organisation
AS	Australian Standards
WA DOH	Reference document for the NEPM. Government of Western Australia, Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2009), including supporting document Recommended Procedures for Laboratory Analysis of Asbestos in Soil (2011)
NEPM	National Environment Protection (Assessment of Site Contamination) Measure, 2013 (as amended)
ACM	Asbestos Containing Materials. Asbestos contained within a non-asbestos matrix, typically presented in bonded and/or sound condition. For the purposes of the NEPM, ACM is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
AF	Asbestos Fines. Asbestos containing materials, including friable, weathered and bonded materials, able to pass a 7mm x 7mm sieve. Considered under the NEPM as equivalent to “non-bonded / friable”.
FA	Fibrous Asbestos. Asbestos containing materials in a friable and/or severely weathered condition. For the purposes of the NEPM, FA is generally restricted to those materials that do not pass a 7mm x 7mm sieve.
Friable	Asbestos-containing materials of any size that may be broken or crumbled by hand pressure. For the purposes of the NEPM, this includes both AF and FA. It is outside of the laboratory’s remit to assess degree of friability.
Trace Analysis	Analytical procedure used to detect the presence of respirable fibres in the matrix.

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N/A	Not applicable

Asbestos Counter/Identifier:

Laxman Dias	Senior Analyst-Asbestos (NSW)

Authorised by:

Chamath JHM Annakkage	Senior Analyst-Asbestos (NSW)

Glenn Jackson
General Manager

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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JBS & G Australia (NSW) P/L
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NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **758326-W**
Project name MAMRE RD
Project ID 59884
Received Date Nov 20, 2020

Client Sample ID			**TS**	**TB**	**RIN01**
Sample Matrix			**Water**	**Water**	**Water**
Eurofins Sample No.			**S20-No36691**	**S20-No36692**	**S20-No36693**
Date Sampled			**Nov 19, 2020**	**Nov 19, 2020**	**Nov 19, 2020**
Test/Reference	LOR	Unit			
BTEX					
Benzene	1	%	94	-	-
Ethylbenzene	1	%	95	-	-
m&p-Xylenes	1	%	100	-	-
o-Xylene	1	%	91	-	-
Toluene	1	%	94	-	-
Xylenes - Total	1	%	94	-	-
4-Bromofluorobenzene (surr.)	1	%	119	-	-
BTEX					
Benzene	0.001	mg/L	-	< 0.001	< 0.001
Toluene	0.001	mg/L	-	< 0.001	< 0.001
Ethylbenzene	0.001	mg/L	-	< 0.001	< 0.001
m&p-Xylenes	0.002	mg/L	-	< 0.002	< 0.002
o-Xylene	0.001	mg/L	-	< 0.001	< 0.001
Xylenes - Total*	0.003	mg/L	-	< 0.003	< 0.003
4-Bromofluorobenzene (surr.)	1	%	-	115	112
Total Recoverable Hydrocarbons - 1999 NEPM Fractions					
TRH C6-C9	0.02	mg/L	-	-	< 0.02
TRH C10-C14	0.05	mg/L	-	-	< 0.05
TRH C15-C28	0.1	mg/L	-	-	< 0.1
TRH C29-C36	0.1	mg/L	-	-	< 0.1
TRH C10-C36 (Total)	0.1	mg/L	-	-	< 0.1
Total Recoverable Hydrocarbons - 2013 NEPM Fractions					
Naphthalene[N02]	0.01	mg/L	-	-	< 0.01
TRH C6-C10	0.02	mg/L	-	-	< 0.02
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	-	-	< 0.02
TRH >C10-C16	0.05	mg/L	-	-	< 0.05
TRH >C10-C16 less Naphthalene (F2)[N01]	0.05	mg/L	-	-	< 0.05
TRH >C16-C34	0.1	mg/L	-	-	< 0.1
TRH >C34-C40	0.1	mg/L	-	-	< 0.1
TRH >C10-C40 (total)*	0.1	mg/L	-	-	< 0.1
Polycyclic Aromatic Hydrocarbons					
Acenaphthene	0.001	mg/L	-	-	< 0.001
Acenaphthylene	0.001	mg/L	-	-	< 0.001
Anthracene	0.001	mg/L	-	-	< 0.001
Benz(a)anthracene	0.001	mg/L	-	-	< 0.001

Client Sample ID			TS	TB	RIN01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S20-No36691	S20-No36692	S20-No36693
Date Sampled			Nov 19, 2020	Nov 19, 2020	Nov 19, 2020
Test/Reference	LOR	Unit			
Polycyclic Aromatic Hydrocarbons					
Benzo(a)pyrene	0.001	mg/L	-	-	< 0.001
Benzo(b&j)fluoranthene[N07]	0.001	mg/L	-	-	< 0.001
Benzo(g.h.i)perylene	0.001	mg/L	-	-	< 0.001
Benzo(k)fluoranthene	0.001	mg/L	-	-	< 0.001
Chrysene	0.001	mg/L	-	-	< 0.001
Dibenz(a.h)anthracene	0.001	mg/L	-	-	< 0.001
Fluoranthene	0.001	mg/L	-	-	< 0.001
Fluorene	0.001	mg/L	-	-	< 0.001
Indeno(1.2.3-cd)pyrene	0.001	mg/L	-	-	< 0.001
Naphthalene	0.001	mg/L	-	-	< 0.001
Phenanthrene	0.001	mg/L	-	-	< 0.001
Pyrene	0.001	mg/L	-	-	< 0.001
Total PAH*	0.001	mg/L	-	-	< 0.001
2-Fluorobiphenyl (surr.)	1	%	-	-	72
p-Terphenyl-d14 (surr.)	1	%	-	-	73
Organochlorine Pesticides					
Chlordanes - Total	0.002	mg/L	-	-	< 0.002
4.4'-DDD	0.0001	mg/L	-	-	< 0.0001
4.4'-DDE	0.0001	mg/L	-	-	< 0.0001
4.4'-DDT	0.0001	mg/L	-	-	< 0.0001
a-BHC	0.0001	mg/L	-	-	< 0.0001
Aldrin	0.0001	mg/L	-	-	< 0.0001
b-BHC	0.0001	mg/L	-	-	< 0.0001
d-BHC	0.0001	mg/L	-	-	< 0.0001
Dieldrin	0.0001	mg/L	-	-	< 0.0001
Endosulfan I	0.0001	mg/L	-	-	< 0.0001
Endosulfan II	0.0001	mg/L	-	-	< 0.0001
Endosulfan sulphate	0.0001	mg/L	-	-	< 0.0001
Endrin	0.0001	mg/L	-	-	< 0.0001
Endrin aldehyde	0.0001	mg/L	-	-	< 0.0001
Endrin ketone	0.0001	mg/L	-	-	< 0.0001
g-BHC (Lindane)	0.0001	mg/L	-	-	< 0.0001
Heptachlor	0.0001	mg/L	-	-	< 0.0001
Heptachlor epoxide	0.0001	mg/L	-	-	< 0.0001
Hexachlorobenzene	0.0001	mg/L	-	-	< 0.0001
Methoxychlor	0.0002	mg/L	-	-	< 0.0002
Toxaphene	0.001	mg/L	-	-	< 0.001
Aldrin and Dieldrin (Total)*	0.0002	mg/L	-	-	< 0.0002
DDT + DDE + DDD (Total)*	0.0002	mg/L	-	-	< 0.0002
Vic EPA IWRG 621 OCP (Total)*	0.002	mg/L	-	-	< 0.002
Vic EPA IWRG 621 Other OCP (Total)*	0.002	mg/L	-	-	< 0.002
Dibutylchlorendate (surr.)	1	%	-	-	74
Tetrachloro-m-xylene (surr.)	1	%	-	-	69
Polychlorinated Biphenyls					
Aroclor-1016	0.005	mg/L	-	-	< 0.005
Aroclor-1221	0.001	mg/L	-	-	< 0.001
Aroclor-1232	0.005	mg/L	-	-	< 0.005
Aroclor-1242	0.005	mg/L	-	-	< 0.005
Aroclor-1248	0.005	mg/L	-	-	< 0.005

Client Sample ID			TS	TB	RIN01
Sample Matrix			Water	Water	Water
Eurofins Sample No.			S20-No36691	S20-No36692	S20-No36693
Date Sampled			Nov 19, 2020	Nov 19, 2020	Nov 19, 2020
Test/Reference	LOR	Unit			
Polychlorinated Biphenyls					
Aroclor-1254	0.005	mg/L	-	-	< 0.005
Aroclor-1260	0.005	mg/L	-	-	< 0.005
Total PCB*	0.001	mg/L	-	-	< 0.001
Dibutylchlorendate (surr.)	1	%	-	-	74
Tetrachloro-m-xylene (surr.)	1	%	-	-	69
Heavy Metals					
Arsenic	0.001	mg/L	-	-	< 0.001
Cadmium	0.0002	mg/L	-	-	< 0.0002
Chromium	0.001	mg/L	-	-	< 0.001
Copper	0.001	mg/L	-	-	< 0.001
Lead	0.001	mg/L	-	-	< 0.001
Mercury	0.0001	mg/L	-	-	< 0.0001
Nickel	0.001	mg/L	-	-	< 0.001
Zinc	0.005	mg/L	-	-	< 0.005

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
JBS&G Suite 2			
BTEX	Sydney	Nov 20, 2020	14 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons - 2013 NEPM Fractions	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Polycyclic Aromatic Hydrocarbons	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2130 PAH and Phenols in Soil and Water			
Organochlorine Pesticides	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Polychlorinated Biphenyls	Sydney	Nov 20, 2020	7 Days
- Method: LTM-ORG-2220 OCP & PCB in Soil and Water			
Metals M8	Sydney	Nov 20, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			

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Project Name: MAMRE RD
Project ID: 59884

Order No.:
Report #: 758326
Phone: 02 8245 0300
Fax:

Received: Nov 20, 2020 6:25 PM
Due: Nov 24, 2020
Priority: 2 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**												
1	TP11_0-0.1	Nov 19, 2020		Soil	S20-No36684		X						X	X			
2	TP18_0-0.1	Nov 19, 2020		Soil	S20-No36685					X	X			X			
3	TP21_0-0.1	Nov 19, 2020		Soil	S20-No36686		X										
4	TP36_0-0.1	Nov 19, 2020		Soil	S20-No36687	X			X	X	X			X	X		
5	TP39_0-0.1	Nov 19, 2020		Soil	S20-No36688		X						X	X			
6	TP47_0-0.1	Nov 19, 2020		Soil	S20-No36689		X						X	X			
7	RZ11_0-0.1	Nov 19, 2020		Soil	S20-No36690		X										
8	TS	Nov 19, 2020		Water	S20-No36691												X
9	TB	Nov 19, 2020		Water	S20-No36692							X					

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
10	RIN01	Nov 19, 2020		Water	S20-No36693											X	
11	TP08_0-0.1	Nov 19, 2020		Soil	S20-No36694			X									
12	TP09_0-0.1	Nov 19, 2020		Soil	S20-No36695			X									
13	TP10_0-0.1	Nov 19, 2020		Soil	S20-No36696			X									
14	TP12_0-0.1	Nov 19, 2020		Soil	S20-No36697			X									
15	TP14_0-0.1	Nov 19, 2020		Soil	S20-No36698			X									
16	TP15_0-0.1	Nov 19, 2020		Soil	S20-No36699			X									
17	TP16_0-0.1	Nov 19, 2020		Soil	S20-No36700			X									
18	TP17_0-0.1	Nov 19, 2020		Soil	S20-No36701			X									
19	TP19_0-0.1	Nov 19, 2020		Soil	S20-No36702			X									
20	TP20_0-0.1	Nov 19, 2020		Soil	S20-No36703			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
21	TP22_0-0.1	Nov 19, 2020		Soil	S20-No36704			X									
22	TP23_0-0.1	Nov 19, 2020		Soil	S20-No36705			X									
23	TP28_0-0.1	Nov 19, 2020		Soil	S20-No36706			X									
24	TP29_0-0.1	Nov 19, 2020		Soil	S20-No36707			X									
25	TP30_0-0.1	Nov 19, 2020		Soil	S20-No36708			X									
26	TP31_0-0.1	Nov 19, 2020		Soil	S20-No36709			X									
27	TP32_0-0.1	Nov 19, 2020		Soil	S20-No36710			X									
28	TP33_0-0.1	Nov 19, 2020		Soil	S20-No36711			X									
29	TP35_0-0.1	Nov 19, 2020		Soil	S20-No36712			X									
30	TP37_0-0.1	Nov 19, 2020		Soil	S20-No36713			X									
31	TP38_0-0.1	Nov 19, 2020		Soil	S20-No36714			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
32	TP40_0-0.1	Nov 19, 2020		Soil	S20-No36715			X									
33	TP46_0-0.1	Nov 19, 2020		Soil	S20-No36716			X									
34	TP100_0-0.1	Nov 19, 2020		Soil	S20-No36717			X									
35	TP132_0-0.1	Nov 19, 2020		Soil	S20-No36718			X									
36	TP72_0-0.1	Nov 19, 2020		Soil	S20-No36900			X									
37	TP102_0.2-0.3	Nov 19, 2020		Soil	S20-No36901			X									
38	TP102_0.7-0.8	Nov 19, 2020		Soil	S20-No36902			X									
39	TP102_1.2-1.3	Nov 19, 2020		Soil	S20-No36903			X									
40	TP103_0.2-0.3	Nov 19, 2020		Soil	S20-No36904			X									
41	TP103_0.7-0.8	Nov 19, 2020		Soil	S20-No36905			X									
42	TP103_1.2-1.3	Nov 19, 2020		Soil	S20-No36906			X									

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Melbourne Laboratory - NATA Site # 1254 & 14271															X		
Sydney Laboratory - NATA Site # 18217							X	X	X	X	X	X	X	X	X	X	X
Brisbane Laboratory - NATA Site # 20794						X											
Perth Laboratory - NATA Site # 23736																	
Mayfield Laboratory																	
External Laboratory																	
43	TP104_0-0.1	Nov 19, 2020		Soil	S20-No36907			X									
44	TP104_0.3-0.4	Nov 19, 2020		Soil	S20-No36908			X									
Test Counts						1	5	34	1	2	2	1	3	5	1	1	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C10-C14	mg/L	< 0.05			0.05	Pass	
TRH C15-C28	mg/L	< 0.1			0.1	Pass	
TRH C29-C36	mg/L	< 0.1			0.1	Pass	
Method Blank							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	mg/L	< 0.01			0.01	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
TRH >C10-C16	mg/L	< 0.05			0.05	Pass	
TRH >C16-C34	mg/L	< 0.1			0.1	Pass	
TRH >C34-C40	mg/L	< 0.1			0.1	Pass	
Method Blank							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	mg/L	< 0.001			0.001	Pass	
Acenaphthylene	mg/L	< 0.001			0.001	Pass	
Anthracene	mg/L	< 0.001			0.001	Pass	
Benz(a)anthracene	mg/L	< 0.001			0.001	Pass	
Benzo(a)pyrene	mg/L	< 0.001			0.001	Pass	
Benzo(b&j)fluoranthene	mg/L	< 0.001			0.001	Pass	
Benzo(g.h.i)perylene	mg/L	< 0.001			0.001	Pass	
Benzo(k)fluoranthene	mg/L	< 0.001			0.001	Pass	
Chrysene	mg/L	< 0.001			0.001	Pass	
Dibenz(a.h)anthracene	mg/L	< 0.001			0.001	Pass	
Fluoranthene	mg/L	< 0.001			0.001	Pass	
Fluorene	mg/L	< 0.001			0.001	Pass	
Indeno(1.2.3-cd)pyrene	mg/L	< 0.001			0.001	Pass	
Naphthalene	mg/L	< 0.001			0.001	Pass	
Phenanthrene	mg/L	< 0.001			0.001	Pass	
Pyrene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Organochlorine Pesticides							
Chlordanes - Total	mg/L	< 0.002			0.002	Pass	
4.4'-DDD	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDE	mg/L	< 0.0001			0.0001	Pass	
4.4'-DDT	mg/L	< 0.0001			0.0001	Pass	
a-BHC	mg/L	< 0.0001			0.0001	Pass	
Aldrin	mg/L	< 0.0001			0.0001	Pass	
b-BHC	mg/L	< 0.0001			0.0001	Pass	
d-BHC	mg/L	< 0.0001			0.0001	Pass	
Dieldrin	mg/L	< 0.0001			0.0001	Pass	
Endosulfan I	mg/L	< 0.0001			0.0001	Pass	
Endosulfan II	mg/L	< 0.0001			0.0001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Endosulfan sulphate	mg/L	< 0.0001			0.0001	Pass	
Endrin	mg/L	< 0.0001			0.0001	Pass	
Endrin aldehyde	mg/L	< 0.0001			0.0001	Pass	
Endrin ketone	mg/L	< 0.0001			0.0001	Pass	
g-BHC (Lindane)	mg/L	< 0.0001			0.0001	Pass	
Heptachlor	mg/L	< 0.0001			0.0001	Pass	
Heptachlor epoxide	mg/L	< 0.0001			0.0001	Pass	
Hexachlorobenzene	mg/L	< 0.0001			0.0001	Pass	
Methoxychlor	mg/L	< 0.0002			0.0002	Pass	
Toxaphene	mg/L	< 0.001			0.001	Pass	
Method Blank							
Polychlorinated Biphenyls							
Aroclor-1016	mg/L	< 0.005			0.005	Pass	
Aroclor-1221	mg/L	< 0.001			0.001	Pass	
Aroclor-1232	mg/L	< 0.005			0.005	Pass	
Aroclor-1242	mg/L	< 0.005			0.005	Pass	
Aroclor-1248	mg/L	< 0.005			0.005	Pass	
Aroclor-1254	mg/L	< 0.005			0.005	Pass	
Aroclor-1260	mg/L	< 0.005			0.005	Pass	
Total PCB*	mg/L	< 0.001			0.001	Pass	
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.001			0.001	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	83			70-130	Pass	
Toluene	%	77			70-130	Pass	
Ethylbenzene	%	79			70-130	Pass	
m&p-Xylenes	%	83			70-130	Pass	
o-Xylene	%	81			70-130	Pass	
Xylenes - Total*	%	82			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 1999 NEPM Fractions							
TRH C6-C9	%	85			70-130	Pass	
TRH C10-C14	%	80			70-130	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons - 2013 NEPM Fractions							
Naphthalene	%	85			70-130	Pass	
TRH C6-C10	%	90			70-130	Pass	
TRH >C10-C16	%	77			70-130	Pass	
LCS - % Recovery							
Polycyclic Aromatic Hydrocarbons							
Acenaphthene	%	101			70-130	Pass	
Acenaphthylene	%	100			70-130	Pass	
Anthracene	%	87			70-130	Pass	
Benz(a)anthracene	%	107			70-130	Pass	
Benzo(a)pyrene	%	110			70-130	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Benzo(b&j)fluoranthene	%	115			70-130	Pass	
Benzo(g.h.i)perylene	%	106			70-130	Pass	
Benzo(k)fluoranthene	%	104			70-130	Pass	
Chrysene	%	111			70-130	Pass	
Dibenz(a.h)anthracene	%	109			70-130	Pass	
Fluoranthene	%	100			70-130	Pass	
Fluorene	%	101			70-130	Pass	
Indeno(1.2.3-cd)pyrene	%	107			70-130	Pass	
Naphthalene	%	99			70-130	Pass	
Phenanthrene	%	105			70-130	Pass	
Pyrene	%	104			70-130	Pass	
LCS - % Recovery							
Organochlorine Pesticides							
Chlordanes - Total	%	110			70-130	Pass	
4.4'-DDD	%	98			70-130	Pass	
4.4'-DDE	%	98			70-130	Pass	
4.4'-DDT	%	104			70-130	Pass	
a-BHC	%	104			70-130	Pass	
Aldrin	%	87			70-130	Pass	
b-BHC	%	108			70-130	Pass	
d-BHC	%	104			70-130	Pass	
Dieldrin	%	104			70-130	Pass	
Endosulfan I	%	109			70-130	Pass	
Endosulfan II	%	122			70-130	Pass	
Endosulfan sulphate	%	99			70-130	Pass	
Endrin	%	103			70-130	Pass	
Endrin aldehyde	%	103			70-130	Pass	
Endrin ketone	%	102			70-130	Pass	
g-BHC (Lindane)	%	107			70-130	Pass	
Heptachlor	%	112			70-130	Pass	
Heptachlor epoxide	%	104			70-130	Pass	
Hexachlorobenzene	%	93			70-130	Pass	
Methoxychlor	%	110			70-130	Pass	
LCS - % Recovery							
Polychlorinated Biphenyls							
Aroclor-1016	%	102			70-130	Pass	
Aroclor-1260	%	120			70-130	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	103			80-120	Pass	
Cadmium	%	99			80-120	Pass	
Chromium	%	102			80-120	Pass	
Copper	%	93			80-120	Pass	
Lead	%	98			80-120	Pass	
Mercury	%	100			80-120	Pass	
Nickel	%	97			80-120	Pass	
Zinc	%	96			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
BTEX				Result 1					
Benzene	S20-No30048	NCP	%	105			70-130	Pass	
Toluene	S20-No30048	NCP	%	97			70-130	Pass	
Ethylbenzene	S20-No30048	NCP	%	97			70-130	Pass	
m&p-Xylenes	S20-No30048	NCP	%	97			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
o-Xylene	S20-No30048	NCP	%	96			70-130	Pass	
Xylenes - Total*	S20-No30048	NCP	%	97			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1					
TRH C6-C9	S20-No30048	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1					
Naphthalene	S20-No30048	NCP	%	93			70-130	Pass	
TRH C6-C10	S20-No30048	NCP	%	94			70-130	Pass	
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No30774	NCP	%	102			75-125	Pass	
Cadmium	S20-No30774	NCP	%	104			75-125	Pass	
Chromium	S20-No28823	NCP	%	97			75-125	Pass	
Copper	S20-No30774	NCP	%	101			75-125	Pass	
Lead	S20-No30774	NCP	%	104			75-125	Pass	
Mercury	S20-No30774	NCP	%	107			75-125	Pass	
Nickel	S20-No30774	NCP	%	103			75-125	Pass	
Zinc	S20-No30774	NCP	%	98			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
BTEX				Result 1	Result 2	RPD			
Benzene	S20-No30569	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Toluene	S20-No30569	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Ethylbenzene	S20-No30569	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
m&p-Xylenes	S20-No30569	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
o-Xylene	S20-No30569	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Xylenes - Total*	S20-No30569	NCP	mg/L	< 0.003	< 0.003	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 1999 NEPM Fractions				Result 1	Result 2	RPD			
TRH C6-C9	S20-No30569	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH C10-C14	S20-No30047	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH C15-C28	S20-No30047	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH C29-C36	S20-No30047	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Total Recoverable Hydrocarbons - 2013 NEPM Fractions				Result 1	Result 2	RPD			
Naphthalene	S20-No30569	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
TRH C6-C10	S20-No30569	NCP	mg/L	< 0.02	< 0.02	<1	30%	Pass	
TRH >C10-C16	S20-No30047	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
TRH >C16-C34	S20-No30047	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
TRH >C34-C40	S20-No30047	NCP	mg/L	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No30788	NCP	mg/L	0.039	0.041	6.0	30%	Pass	
Cadmium	S20-No30788	NCP	mg/L	0.0012	0.0013	7.0	30%	Pass	
Chromium	S20-No30788	NCP	mg/L	0.013	0.013	4.0	30%	Pass	
Copper	S20-No30788	NCP	mg/L	0.065	0.069	6.0	30%	Pass	
Lead	S20-No30788	NCP	mg/L	0.011	0.011	5.0	30%	Pass	
Mercury	S20-No30788	NCP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-No30788	NCP	mg/L	0.24	0.25	6.0	30%	Pass	
Zinc	S20-No30788	NCP	mg/L	1.3	1.4	7.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N01	F2 is determined by arithmetically subtracting the "naphthalene" value from the ">C10-C16" value. The naphthalene value used in this calculation is obtained from volatiles (Purge & Trap analysis).
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N07	Please note:- These two PAH isomers closely co-elute using the most contemporary analytical methods and both the reported concentration (and the TEQ) apply specifically to the total of the two co-eluting PAHs

Authorised By

Ursula Long	Analytical Services Manager
Andrew Sullivan	Senior Analyst-Organic (NSW)
Gabriele Cordero	Senior Analyst-Metal (NSW)

Glenn Jackson

General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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03876

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 51884	LABORATORY BATCH NO.:
PROJECT NAME: Manre Road	SAMPLERS: CK + TZ
SEND REPORT TO: ckauffman@jbsg.com.au SEND INVOICE TO: CKauffman@jbsg.com.au + admin@jbsg	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY: 48hour.	QC LEVEL: NEPM (2013)
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:	

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	ACM/FA	H.M	PAH	Nepm	NOTES:
TP08_0-0.1	Soil	19/11/20		J+B							
TP09_0-0.1											
TP10_0-0.1											
TP11_0-0.1						X	+			X	
TP12_0-0.1											
TP14_0-0.1											
TP15_0-0.1											
TP16_0-0.1											
TP17_0-0.1											
TP18_0-0.1								X	X		
TP19_0-0.1											
TP20_0-0.1											
TP21_0-0.1						X				9	
TP22_0-0.1											
TP23_0-0.1											
TP28_0-0.1											
TP29_0-0.1											
TP30_0-0.1											
TP31_0-0.1											

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 20.11.20	CONSIGNMENT NOTE NO.	NAME: MBirkett	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 20/11/20 OF: 6:25pm	COOLER TEMP 10.3 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

758326

03877

CHAIN OF CUSTODY

JBS&G

PROJECT NO.: 54884
PROJECT NAME: Mamre Rd.
SEND REPORT TO: ckauffman@jbsg.com.au SEND INVOICE TO: ckauffman@jbsg.com.au
DATE NEEDED BY: 48 hour!

LABORATORY BATCH NO.:
SAMPLERS: CK + JZ
PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos ID/PCA	OCP/PCB	H.M.	PAH	cec	pH	% clay	JB82	ISTD	NEPM	NOTES:
TP32_0-0.1	Soil	19/11/20		J+B												
TP33_0-0.1																
TP35_0-0.1																
TP36_0-0.1								X	X	X	X	X				
TP37_0-0.1																
TP38_0-0.1																
TP39_0-0.1						X	X								X	
TP40_0-0.1																
TP46_0-0.1																
TP47_0-0.1						X	X								X	
TP100_0-0.1																
TP132_0-0.1																
RZ11_0-0.1						X									X	
TST.	H2O			2x vial										X		
TB				2x vial										X		
& RINO1				2vial, 1Amb, 1metal									X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 20.11.20 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: M BIRKETT DATE: OF: 20/11/20 6:25pm	COOLER SEAL – Yes ✓ No ..... Intact ✓ Broken ..... COOLER TEMP 10.3 deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

IMSO FormsO13 – Chain of Custody - Generic

758326

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IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	MAMRE RD
Project ID:	59884
Turnaround time:	2 Day
Date/Time received	Nov 20, 2020 6:25 PM
Eurofins reference	758326

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

TP72_0-0.1 (jar and bag), TP102_0.2-0.3 (jar and bag), TP102_0.7-0.8 (jar, bag, PFAS jar), TP102_1.2-1.3(PFAS jar), TP103_0.2-0.3 (bag and PFAS jar), TP103_0.7-0.8 (bag), TP103_1.2-1.3 (jar), TP104_0-0.1(bag and PFAS jar), and TP104_0.3-0.4 (PFAS jar) received as extra and logged on hold.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

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Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **758576-L**
Project name ADDITIONAL MAMRE RD
Project ID 59884
Received Date Nov 23, 2020

Client Sample ID			**TP105 0.6-0.7**	**TP105 0.6-0.7**	**TP108A 0.2-0.3**	**TP108A 0.2-0.3**
Sample Matrix			**US Leachate**	**AUS Leachate - Reagent Water**	**US Leachate**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-No38892**	**S20-No38893**	**S20-No38894**	**S20-No38895**
Date Sampled			**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**	**Nov 16, 2020**
Test/Reference	LOR	Unit				
Heavy Metals						
Arsenic	0.01	mg/L	< 0.01	0.012	< 0.01	0.031
Cadmium	0.005	mg/L	< 0.005	< 0.0005	< 0.005	< 0.0005
Chromium	0.05	mg/L	< 0.05	0.05	< 0.05	0.06
Copper	0.05	mg/L	< 0.05	0.03	< 0.05	0.04
Lead	0.01	mg/L	0.01	0.07	0.02	0.27
Mercury	0.001	mg/L	< 0.001	< 0.0001	< 0.001	0.0002
Nickel	0.01	mg/L	< 0.01	0.01	< 0.01	0.02
Zinc	0.05	mg/L	0.20	0.14	0.32	0.39
USA Leaching Procedure						
Leachate Fluid[C01]		comment	1.0	-	1.0	-
pH (initial)	0.1	pH Units	7.6	-	7.4	-
pH (off)	0.1	pH Units	5.2	-	5.2	-
pH (USA HCl addition)	0.1	pH Units	1.6	-	1.6	-
AUS Leaching Procedure						
Leachate Fluid[C01]		comment	-	4.0	-	4.0
pH (initial)	0.1	pH Units	-	7.4	-	7.8
pH (Leachate fluid)	0.1	pH Units	-	5.9	-	5.9
pH (off)	0.1	pH Units	-	8.3	-	8.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Nov 24, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Nov 23, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Nov 23, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

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Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Company Name: JBS & G Australia (NSW) P/L
Address: Level 1, 50 Margaret St
Sydney
NSW 2000

Project Name: ADDITIONAL MAMRE RD
Project ID: 59884

Order No.:
Report #: 758576
Phone: 02 8245 0300
Fax:

Received: Nov 23, 2020 2:50 PM
Due: Nov 24, 2020
Priority: 1 Day
Contact Name: Chris Kauffman

Eurofins Analytical Services Manager : Ursula Long

Sample Detail						AUS Leaching Procedure	USA Leaching Procedure	Metals M8
Melbourne Laboratory - NATA Site # 1254 & 14271								
Sydney Laboratory - NATA Site # 18217						X	X	X
Brisbane Laboratory - NATA Site # 20794								
Perth Laboratory - NATA Site # 23736								
Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	TP105 0.6-0.7	Nov 16, 2020		US Leachate	S20-No38892		X	X
2	TP105 0.6-0.7	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No38893	X		X
3	TP108A 0.2-0.3	Nov 16, 2020		US Leachate	S20-No38894		X	X
4	TP108A 0.2-0.3	Nov 16, 2020		AUS Leachate - Reagent Water	S20-No38895	X		X
Test Counts						2	2	4

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follows guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013 and are included in this QC report where applicable. Additional QC data may be available on request.
2. All soil/sediment/solid results are reported on a dry basis, unless otherwise stated.
3. All biota/food results are reported on a wet weight basis on the edible portion, unless otherwise stated.
4. Actual LORs are matrix dependant. Quoted LORs may be raised where sample extracts are diluted due to interferences.
5. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds.
6. SVOC analysis on waters are performed on homogenised, unfiltered samples, unless noted otherwise.
7. Samples were analysed on an 'as received' basis.
8. Information identified on this report with blue colour, indicates data provided by customer, that may have an impact on the results.
9. This report replaces any interim results previously issued.

Holding Times

Please refer to 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether the holding time is 7 days however for all other VOCs such as BTEX or C6-10 TRH then the holding time is 14 days.

****NOTE:** pH duplicates are reported as a range NOT as RPD

Units

mg/kg: milligrams per kilogram

mg/L: milligrams per litre

ug/L: micrograms per litre

ppm: Parts per million

ppb: Parts per billion

%: Percentage

org/100mL: Organisms per 100 millilitres

NTU: Nephelometric Turbidity Units

MPN/100mL: Most Probable Number of organisms per 100 millilitres

Terms

Dry	Where a moisture has been determined on a solid sample the result is expressed on a dry basis.
LOR	Limit of Reporting.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
LCS	Laboratory Control Sample - reported as percent recovery.
CRM	Certified Reference Material - reported as percent recovery.
Method Blank	In the case of solid samples these are performed on laboratory certified clean sands and in the case of water samples these are performed on de-ionised water.
Surr - Surrogate	The addition of a like compound to the analyte target and reported as percentage recovery.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
USEPA	United States Environmental Protection Agency
APHA	American Public Health Association
TCLP	Toxicity Characteristic Leaching Procedure
COC	Chain of Custody
SRA	Sample Receipt Advice
QSM	US Department of Defense Quality Systems Manual Version 5.3
CP	Client Parent - QC was performed on samples pertaining to this report
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within.
TEQ	Toxic Equivalency Quotient

QC - Acceptance Criteria

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR : No Limit

Results between 10-20 times the LOR : RPD must lie between 0-50%

Results >20 times the LOR : RPD must lie between 0-30%

Surrogate Recoveries: Recoveries must lie between 20-130% Phenols & 50-150% PFASs

PFAS field samples that contain surrogate recoveries in excess of the QC limit designated in QSM 5.3 where no positive PFAS results have been reported have been reviewed and no data was affected.

WA DWER (n=10): PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC Data General Comments

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.
3. Organochlorine Pesticide analysis - where reporting LCS data, Toxaphene & Chlordane are not added to the LCS.
4. Organochlorine Pesticide analysis - where reporting Spike data, Toxaphene is not added to the Spike.
5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
6. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling.Therefore laboratory analysis is unlikely to be completed within holding time. Analysis will begin as soon as possible after sample receipt.
7. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of Recovery the term "INT" appears against that analyte.
8. Polychlorinated Biphenyls are spiked only using Aroclor 1260 in Matrix Spikes and LCS.
9. For Matrix Spikes and LCS results a dash " -" in the report means that the specific analyte was not added to the QC sample.
10. Duplicate RPDs are calculated from raw analytical data thus it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Arsenic	mg/L	< 0.005			0.005	Pass	
Cadmium	mg/L	< 0.0005			0.0005	Pass	
Chromium	mg/L	< 0.01			0.01	Pass	
Copper	mg/L	< 0.01			0.01	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	0.01			0.01	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	100			80-120	Pass	
Cadmium	%	102			80-120	Pass	
Chromium	%	106			80-120	Pass	
Copper	%	104			80-120	Pass	
Lead	%	105			80-120	Pass	
Mercury	%	107			80-120	Pass	
Nickel	%	104			80-120	Pass	
Zinc	%	102			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No32620	NCP	%	100			75-125	Pass	
Cadmium	S20-No32620	NCP	%	91			75-125	Pass	
Chromium	S20-No32620	NCP	%	95			75-125	Pass	
Copper	S20-No32620	NCP	%	89			75-125	Pass	
Lead	S20-No32620	NCP	%	94			75-125	Pass	
Mercury	S20-No32620	NCP	%	96			75-125	Pass	
Nickel	S20-No32620	NCP	%	91			75-125	Pass	
Zinc	S20-No32620	NCP	%	93			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals									
Arsenic	S20-No38893	CP	mg/L	0.012	0.014	9.0	30%	Pass	
Cadmium	S20-No38893	CP	mg/L	< 0.0005	< 0.0005	<1	30%	Pass	
Chromium	S20-No38893	CP	mg/L	0.05	0.05	7.0	30%	Pass	
Copper	S20-No38893	CP	mg/L	0.03	0.03	1.0	30%	Pass	
Lead	S20-No38893	CP	mg/L	0.07	0.10	34	30%	Fail	Q15
Mercury	S20-No38893	CP	mg/L	< 0.0001	< 0.0001	<1	30%	Pass	
Nickel	S20-No38893	CP	mg/L	0.01	0.02	18	30%	Pass	
Zinc	S20-No38893	CP	mg/L	0.14	0.20	33	30%	Fail	Q15

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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#AU04_Enviro_Sample_NSW

Subject: FW: Eurofins Draft Test Results - Report 757742 : Site MAMRE RD (59884)

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Monday, 23 November 2020 2:50 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: RE: Eurofins Draft Test Results - Report 757742 : Site MAMRE RD (59884)

EXTERNAL EMAIL*

Ursula can I please request some additional analysis as follows:

TCLP/ASLP for heavy metals on samples TP105 0.6-0.7 and TP108A 0.2-0.3 on a 24 hour TAT.

Thanks,
Chris

Chris Kauffman | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0425229447 | E: ckauffman@jbsg.com.au | W: www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Environmental Approvals | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Stakeholder and Risk Management

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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Friday, 20 November 2020 9:51 PM
To: Christopher Kauffman <ckauffman@jbsg.com.au>
Subject: Eurofins Draft Test Results - Report 757742 : Site MAMRE RD (59884)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached draft results for your project in the subject header.

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road
LANE COVE WEST NSW 2066
AUSTRALIA

Phone: +61 299 008 420
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

Click here to report this email as spam.

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eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Perth
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Site # 23736

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Phone : +61 2 4968 8448

New Zealand

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Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	ADDITIONAL MAMRE RD
Project ID:	59884
Turnaround time:	1 Day
Date/Time received	Nov 23, 2020 2:50 PM
Eurofins reference	758576

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 3.1 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

JBS & G Australia (NSW) P/L
Level 1, 50 Margaret St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
The results of the tests, calibrations and/or measurements included in this document are traceable to Australian/national standards.

Attention: **Chris Kauffman**

Report **758578-L**
Project name ADDITIONAL MAMRE RD
Project ID 59884
Received Date Nov 23, 2020

Client Sample ID			**RZ05 0-0.1**	**RZ05 0-0.1**
Sample Matrix			**US Leachate**	**AUS Leachate - Reagent Water**
Eurofins Sample No.			**S20-No38906**	**S20-No38907**
Date Sampled			**Nov 18, 2020**	**Nov 18, 2020**
Test/Reference	LOR	Unit		
Heavy Metals				
Arsenic	0.01	mg/L	< 0.01	< 0.005
Cadmium	0.005	mg/L	< 0.005	< 0.0005
Chromium	0.05	mg/L	< 0.05	0.06
Copper	0.05	mg/L	< 0.05	0.03
Lead	0.01	mg/L	< 0.01	0.03
Mercury	0.001	mg/L	< 0.001	< 0.0001
Nickel	0.01	mg/L	0.02	0.04
Zinc	0.05	mg/L	3.2	0.47
USA Leaching Procedure				
Leachate Fluid[C01]		comment	1.0	-
pH (initial)	0.1	pH Units	7.4	-
pH (off)	0.1	pH Units	5.2	-
pH (USA HCl addition)	0.1	pH Units	1.6	-
AUS Leaching Procedure				
Leachate Fluid[C01]		comment	-	4.0
pH (initial)	0.1	pH Units	-	6.9
pH (Leachate fluid)	0.1	pH Units	-	5.9
pH (off)	0.1	pH Units	-	6.7

Sample History

Where samples are submitted/analysed over several days, the last date of extraction and analysis is reported.
A recent review of our LIMS has resulted in the correction or clarification of some method identifications. Due to this, some of the method reference information on reports has changed. However, no substantive change has been made to our laboratory methods, and as such there is no change in the validity of current or previous results.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Metals M8	Sydney	Nov 24, 2020	180 Days
- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS			
USA Leaching Procedure	Sydney	Nov 23, 2020	14 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			
AUS Leaching Procedure	Sydney	Nov 23, 2020	7 Days
- Method: LTM-GEN-7010 Leaching Procedure for Soils & Solid Wastes			

eurofins | Environment Testing

ABN: 50 005 085 521 web: www.eurofins.com.au email: EnviroSales@eurofins.com

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Site # 23736

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Phone : +61 2 4968 8448

New Zealand

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IANZ # 1327

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43 Detroit Drive
Rolleston, Christchurch 7675
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Mayfield Laboratory								
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	RZ05 0-0.1	Nov 18, 2020		US Leachate	S20-No38906		X	X
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Test Counts						1	1	2

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5. Total Recoverable Hydrocarbons - where reporting Spike & LCS data, a single spike of commercial Hydrocarbon products in the range of C12-C30 is added and it's Total Recovery is reported in the C10-C14 cell of the Report.
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Heavy Metals							
Arsenic	mg/L	< 0.01			0.01	Pass	
Cadmium	mg/L	< 0.005			0.005	Pass	
Chromium	mg/L	< 0.05			0.05	Pass	
Copper	mg/L	< 0.05			0.05	Pass	
Lead	mg/L	< 0.01			0.01	Pass	
Mercury	mg/L	< 0.001			0.001	Pass	
Nickel	mg/L	< 0.01			0.01	Pass	
Zinc	mg/L	< 0.05			0.05	Pass	
LCS - % Recovery							
Heavy Metals							
Arsenic	%	102			80-120	Pass	
Cadmium	%	96			80-120	Pass	
Chromium	%	91			80-120	Pass	
Copper	%	87			80-120	Pass	
Lead	%	92			80-120	Pass	
Mercury	%	96			80-120	Pass	
Nickel	%	89			80-120	Pass	
Zinc	%	87			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Arsenic	S20-No38907	CP	%	107			75-125	Pass	
Cadmium	S20-No38907	CP	%	107			75-125	Pass	
Chromium	S20-No38907	CP	%	106			75-125	Pass	
Copper	S20-No38907	CP	%	104			75-125	Pass	
Lead	S20-No38907	CP	%	104			75-125	Pass	
Mercury	S20-No38907	CP	%	109			75-125	Pass	
Nickel	S20-No38907	CP	%	105			75-125	Pass	
Zinc	S20-No38907	CP	%	90			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1	Result 2	RPD	Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Arsenic	S20-No34095	NCP	mg/L	0.01	0.01	5.0	30%	Pass	
Cadmium	S20-No34095	NCP	mg/L	< 0.005	< 0.005	<1	30%	Pass	
Chromium	S20-No34095	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Copper	S20-No34095	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Lead	S20-No34095	NCP	mg/L	0.19	0.15	23	30%	Pass	
Mercury	S20-No34095	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Nickel	S20-No34095	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Zinc	S20-No34095	NCP	mg/L	0.40	0.38	6.0	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
C01	Leachate Fluid Key: 1 - pH 5.0; 2 - pH 2.9; 3 - pH 9.2; 4 - Reagent (DI) water; 5 - Client sample, 6 - other

Authorised By

Ursula Long	Analytical Services Manager
Gabriele Cordero	Senior Analyst-Metal (NSW)

Glenn Jackson
General Manager

Final report - this Report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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#AU04_Enviro_Sample_NSW

Subject: FW: Eurofins Draft Test Results - Report 757712 : Site MAMRE RD (59884)

From: Christopher Kauffman <ckauffman@jbsg.com.au>
Sent: Monday, 23 November 2020 2:55 PM
To: Ursula Long <UrsulaLong@eurofins.com>
Subject: RE: Eurofins Draft Test Results - Report 757712 : Site MAMRE RD (59884)

EXTERNAL EMAIL*

Ursula,

Can I request TCLP/ASLP for RZ05 0-0.1 on a 24hr TAT please.

Thanks,
Chris

Chris Kauffman | Environmental Consultant | JBS&G
Sydney | Melbourne | Adelaide | Perth | Brisbane | Canberra | Darwin | Wollongong
Level 1, 50 Margaret Street Sydney NSW 2000
T: 02 8245 0300 | M: 0425229447 | E: ckauffman@jbsg.com.au | W: www.jbsg.com.au
Contaminated Land | Groundwater Remediation | Environmental Approvals | Auditing and Compliance | Hygiene and Hazardous Materials | Due Diligence and Liability | Stakeholder and Risk Management

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From: UrsulaLong@eurofins.com <UrsulaLong@eurofins.com>
Sent: Friday, 20 November 2020 9:48 PM
To: Christopher Kauffman <ckauffman@jbsg.com.au>
Subject: Eurofins Draft Test Results - Report 757712 : Site MAMRE RD (59884)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Please find attached draft results for your project in the subject header.

Apologies Chirs, the remaining results have been delayed

Regards

Ursula Long

Eurofins
Unit F3, Parkview Building
16 Mars Road

LANE COVE WEST NSW 2066
AUSTRALIA
Phone: +61 299 008 420
Email: UrsulaLong@eurofins.com
Website:environment.eurofins.com.au
EnviroNote 1108 - Emissions from Stationary Sources
EnviroNote 1103 - NATA Accreditation for Dioxins

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eurofins | Environment Testing

ABN: 50 005 085 521 www.eurofins.com.au EnviroSales@eurofins.com

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Phone : +64 9 526 45 51
IANZ # 1327

Christchurch
43 Detroit Drive
Rolleston, Christchurch 7675
Phone : 0800 856 450
IANZ # 1290

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	Chris Kauffman
Project name:	ADDITIONAL MAMRE RD
Project ID:	59884
Turnaround time:	1 Day
Date/Time received	Nov 23, 2020 2:55 PM
Eurofins reference	758578

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of a random sample selected from the batch as recorded by Eurofins Sample Receipt : 7.1 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Ursula Long on phone : or by email: UrsulaLong@eurofins.com

Results will be delivered electronically via email to Chris Kauffman - ckauffman@jbsg.com.au.

Global Leader - Results you can trust

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 256050

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**59884, Mamre Rd**
Number of Samples	1 Water
Date samples received	18/11/2020
Date completed instructions received	18/11/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	20/11/2020
Date of Issue	25/11/2020
Reissue Details	This report replaces R00 created on 20/11/2020 due to: Sample ID Amended (Client Request)

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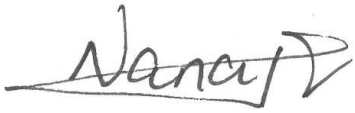
Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By
Dragana Tomas, Senior Chemist
Hannah Nguyen, Senior Chemist
Priya Samarawickrama, Senior Chemist

Authorised By



Nancy Zhang, Laboratory Manager

PAHs in Water - Low Level		
Our Reference		256050-1
Your Reference	UNITS	WQC01
Date Sampled		16/11/2020
Type of sample		Water
Date extracted	-	19/11/2020
Date analysed	-	20/11/2020
Naphthalene	µg/L	<0.2
Acenaphthylene	µg/L	<0.1
Acenaphthene	µg/L	<0.1
Fluorene	µg/L	<0.1
Phenanthrene	µg/L	<0.1
Anthracene	µg/L	<0.1
Fluoranthene	µg/L	<0.1
Pyrene	µg/L	<0.1
Benzo(a)anthracene	µg/L	<0.1
Chrysene	µg/L	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2
Benzo(a)pyrene	µg/L	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1
Benzo(a)pyrene TEQ	µg/L	<0.5
Total +ve PAH's	µg/L	<0.1
Surrogate p-Terphenyl-d14	%	85

HM in water - dissolved		
Our Reference		256050-1
Your Reference	UNITS	WQC01
Date Sampled		16/11/2020
Type of sample		Water
Date prepared	-	19/11/2020
Date analysed	-	19/11/2020
Arsenic-Dissolved	µg/L	<1
Cadmium-Dissolved	µg/L	<0.1
Chromium-Dissolved	µg/L	<1
Copper-Dissolved	µg/L	3
Lead-Dissolved	µg/L	<1
Mercury-Dissolved	µg/L	<0.05
Nickel-Dissolved	µg/L	<1
Zinc-Dissolved	µg/L	2

Miscellaneous Inorganics		
Our Reference		256050-1
Your Reference	UNITS	WQC01
Date Sampled		16/11/2020
Type of sample		Water
Date prepared	-	18/11/2020
Date analysed	-	18/11/2020
pH	pH Units	9.2
Total Suspended Solids	mg/L	12
Ammonia as N in water	mg/L	<0.005
Nitrate as N in water	mg/L	<0.005
Nitrite as N in water	mg/L	<0.005

Method ID	Methodology Summary
Inorg-001	pH - Measured using pH meter and electrode in accordance with APHA latest edition, 4500-H+. Please note that the results for water analyses are indicative only, as analysis outside of the APHA storage times.
Inorg-019	Suspended Solids - determined gravimetricially by filtration of the sample. The samples are dried at 104+/-5°C.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Metals-022	Determination of various metals by ICP-MS.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.

QUALITY CONTROL: PAHs in Water - Low Level						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			19/11/2020	[NT]	[NT]	[NT]	[NT]	19/11/2020	[NT]
Date analysed	-			19/11/2020	[NT]	[NT]	[NT]	[NT]	19/11/2020	[NT]
Naphthalene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	77	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	76	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	77	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	89	[NT]	[NT]	[NT]	[NT]	92	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			19/11/2020	[NT]	[NT]	[NT]	[NT]	19/11/2020	[NT]
Date analysed	-			19/11/2020	[NT]	[NT]	[NT]	[NT]	19/11/2020	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	98	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Mercury-Dissolved	µg/L	0.05	Metals-021	<0.05	[NT]	[NT]	[NT]	[NT]	107	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			18/11/2020	[NT]	[NT]	[NT]	[NT]	18/11/2020	[NT]
Date analysed	-			18/11/2020	[NT]	[NT]	[NT]	[NT]	18/11/2020	[NT]
pH	pH Units		Inorg-001	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Total Suspended Solids	mg/L	5	Inorg-019	<5	[NT]	[NT]	[NT]	[NT]	98	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	106	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	112	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	105	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

pH
Samples were out of the recommended holding time for this analysis.

03866

CHAIN OF CUSTODY

Pg 1/1

JBS&G

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Manre Rd	SAMPLERS: CK
SEND REPORT TO: C Kauffman SEND INVOICE TO: adminnsw@jbsg.com.au	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY: 48hr	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	HM	PAH (low level)	Ammonia	Nitrite	Nitrate	pH / TSS	TRH	SVOC	VOC	NOTES:
(1) QA01	Water	16/11/20		amber, 2 x vials, metal, green, purple		x	x	x	x	x	x				

Environmental Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 256052

Date Received: 18/11/20

Time Received: 1440

Received By:

Temp: Cool/Ambient

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: CK DATE: 17/11/20	CONSIGNMENT NOTE NO.	NAME: C Mayen DATE: 18/11/20 1440	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	OF: ES SUG	COOLER TEMP ..... deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman

Sample Login Details

Your reference	59884, Mamre Rd
Envirolab Reference	256050
Date Sample Received	18/11/2020
Date Instructions Received	18/11/2020
Date Results Expected to be Reported	20/11/2020

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	1 Water
Turnaround Time Requested	2 days
Temperature on Receipt (°C)	5.2
Cooling Method	Ice
Sampling Date Provided	YES

Comments

sample labelled as WQC01

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

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ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	PAHs in Water - Low Level	HM in water - dissolved	pH	Total Suspended Solids	Ammonia as N in water	Nitrate as N in water	Nitrite as N in water
WQA01	✓	✓	✓	✓	✓	✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

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CERTIFICATE OF ANALYSIS 256165

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman
Address	Level 1, 50 Margaret St, Sydney, NSW, 2000

Sample Details

Your Reference	**59884, Mamre Road**
Number of Samples	5 SOIL
Date samples received	19/11/2020
Date completed instructions received	19/11/2020

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Please refer to the last page of this report for any comments relating to the results.

Report Details

Date results requested by	23/11/2020
Date of Issue	23/11/2020

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Asbestos Approved By
Analysed by Asbestos Approved Identifier: Panika Wongchanda
Authorised by Asbestos Approved Signatory: Lucy Zhu

Results Approved By
Dragana Tomas, Senior Chemist
Jaimie Loa-Kum-Cheung, Metals Supervisor
Josh Williams, Senior Chemist
Lucy Zhu, Asbestos Supervisor

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Soil			
Our Reference		256165-2	256165-4
Your Reference	UNITS	QA02	QA04
Date Sampled		16/11/2020	16/11/2020
Type of sample		SOIL	SOIL
Date extracted	-	20/11/2020	20/11/2020
Date analysed	-	23/11/2020	23/11/2020
TRH C_6 - C_9	mg/kg	<25	<25
TRH C_6 - C_{10}	mg/kg	<25	<25
vTPH C_6 - C_{10} less BTEX (F1)	mg/kg	<25	<25
Benzene	mg/kg	<0.2	<0.2
Toluene	mg/kg	<0.5	<0.5
Ethylbenzene	mg/kg	<1	<1
m+p-xylene	mg/kg	<2	<2
o-Xylene	mg/kg	<1	<1
naphthalene	mg/kg	<1	<1
Total +ve Xylenes	mg/kg	<3	<3
Surrogate aaa-Trifluorotoluene	%	117	119

svTRH (C10-C40) in Soil			
Our Reference		256165-2	256165-4
Your Reference	UNITS	QA02	QA04
Date Sampled		16/11/2020	16/11/2020
Type of sample		SOIL	SOIL
Date extracted	-	20/11/2020	20/11/2020
Date analysed	-	21/11/2020	21/11/2020
TRH C_{10} - C_{14}	mg/kg	<50	<50
TRH C_{15} - C_{28}	mg/kg	<100	<100
TRH C_{29} - C_{36}	mg/kg	<100	<100
TRH >C_{10} -C_{16}	mg/kg	<50	<50
TPH >C10-C16 F2 calculated	mg/kg	<50	<50
TRH >C_{16} -C_{34}	mg/kg	<100	<100
TRH >C_{34} -C_{40}	mg/kg	<100	<100
Total +ve TRH (>C10-C40)	mg/kg	<50	<50
Surrogate o-Terphenyl	%	108	96

PAHs in Soil				
Our Reference		256165-2	256165-4	256165-5
Your Reference	UNITS	QA02	QA04	QA05
Date Sampled		16/11/2020	16/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL
Date extracted	-	20/11/2020	20/11/2020	20/11/2020
Date analysed	-	20/11/2020	20/11/2020	20/11/2020
Naphthalene	mg/kg	<0.1	<0.1	<0.1
Acenaphthylene	mg/kg	<0.1	<0.1	<0.1
Acenaphthene	mg/kg	<0.1	<0.1	<0.1
Fluorene	mg/kg	<0.1	<0.1	<0.1
Phenanthrene	mg/kg	<0.1	<0.1	<0.1
Anthracene	mg/kg	<0.1	<0.1	<0.1
Fluoranthene	mg/kg	<0.1	<0.1	<0.1
Pyrene	mg/kg	<0.1	<0.1	<0.1
Benzo(a)anthracene	mg/kg	<0.1	<0.1	<0.1
Chrysene	mg/kg	<0.1	<0.1	<0.1
Benzo(b,j+k)fluoranthene	mg/kg	<0.2	<0.2	<0.2
Benzo(a)pyrene	mg/kg	<0.05	<0.05	<0.05
Indeno(1,2,3-c,d)pyrene	mg/kg	<0.1	<0.1	<0.1
Dibenzo(a,h)anthracene	mg/kg	<0.1	<0.1	<0.1
Benzo(g,h,i)perylene	mg/kg	<0.1	<0.1	<0.1
Total +ve PAH's	mg/kg	<0.05	<0.05	<0.05
Benzo(a)pyrene TEQ calc (zero)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(half)	mg/kg	<0.5	<0.5	<0.5
Benzo(a)pyrene TEQ calc(PQL)	mg/kg	<0.5	<0.5	<0.5
Surrogate p-Terphenyl-d14	%	120	117	119

Organochlorine Pesticides in soil		
Our Reference		256165-4
Your Reference	UNITS	QA04
Date Sampled		16/11/2020
Type of sample		SOIL
Date extracted	-	20/11/2020
Date analysed	-	20/11/2020
alpha-BHC	mg/kg	<0.1
HCB	mg/kg	<0.1
beta-BHC	mg/kg	<0.1
gamma-BHC	mg/kg	<0.1
Heptachlor	mg/kg	<0.1
delta-BHC	mg/kg	<0.1
Aldrin	mg/kg	<0.1
Heptachlor Epoxide	mg/kg	<0.1
gamma-Chlordane	mg/kg	<0.1
alpha-chlordane	mg/kg	<0.1
Endosulfan I	mg/kg	<0.1
pp-DDE	mg/kg	<0.1
Dieldrin	mg/kg	<0.1
Endrin	mg/kg	<0.1
Endosulfan II	mg/kg	<0.1
pp-DDD	mg/kg	<0.1
Endrin Aldehyde	mg/kg	<0.1
pp-DDT	mg/kg	<0.1
Endosulfan Sulphate	mg/kg	<0.1
Methoxychlor	mg/kg	<0.1
Total +ve DDT+DDD+DDE	mg/kg	<0.1
Surrogate TCMX	%	130

PCBs in Soil		
Our Reference		256165-4
Your Reference	UNITS	QA04
Date Sampled		16/11/2020
Type of sample		SOIL
Date extracted	-	20/11/2020
Date analysed	-	20/11/2020
Aroclor 1016	mg/kg	<0.1
Aroclor 1221	mg/kg	<0.1
Aroclor 1232	mg/kg	<0.1
Aroclor 1242	mg/kg	<0.1
Aroclor 1248	mg/kg	<0.1
Aroclor 1254	mg/kg	<0.1
Aroclor 1260	mg/kg	<0.1
Total +ve PCBs (1016-1260)	mg/kg	<0.1
Surrogate TCMX	%	130

Acid Extractable metals in soil				
Our Reference		256165-2	256165-4	256165-5
Your Reference	UNITS	QA02	QA04	QA05
Date Sampled		16/11/2020	16/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL
Date prepared	-	20/11/2020	20/11/2020	20/11/2020
Date analysed	-	20/11/2020	20/11/2020	20/11/2020
Arsenic	mg/kg	<4	6	<4
Cadmium	mg/kg	<0.4	<0.4	<0.4
Chromium	mg/kg	5	11	9
Copper	mg/kg	7	10	10
Lead	mg/kg	15	14	7
Mercury	mg/kg	<0.1	<0.1	<0.1
Nickel	mg/kg	2	5	3
Zinc	mg/kg	36	16	13

Moisture				
Our Reference		256165-2	256165-4	256165-5
Your Reference	UNITS	QA02	QA04	QA05
Date Sampled		16/11/2020	16/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL
Date prepared	-	20/11/2020	20/11/2020	20/11/2020
Date analysed	-	23/11/2020	23/11/2020	23/11/2020
Moisture	%	13	19	8.6

Asbestos ID - soils NEPM - ASB-001				
Our Reference	UNITS	256165-1	256165-3	256165-5
Your Reference		QA01	QA03	QA05
Date Sampled		16/11/2020	16/11/2020	17/11/2020
Type of sample		SOIL	SOIL	SOIL
Date analysed	-	23/11/2020	23/11/2020	23/11/2020
Sample mass tested	g	679.35	637.31	679.43
Sample Description	-	Brown fine-grained soil & debris	Brown fine-grained soil & rocks	Brown clayey soil & rocks
Asbestos ID in soil (AS4964) >0.1g/kg	-	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected	No asbestos detected at reporting limit of 0.1g/kg Organic fibres detected
Trace Analysis	-	No asbestos detected	No asbestos detected	No asbestos detected
Total Asbestos[#1]	g/kg	<0.1	<0.1	<0.1
Asbestos ID in soil <0.1g/kg*	-	No visible asbestos detected	No visible asbestos detected	No visible asbestos detected
ACM >7mm Estimation*	g	–	–	–
FA and AF Estimation*	g	–	–	–
ACM >7mm Estimation*	%(w/w)	<0.01	<0.01	<0.01
FA and AF Estimation*#2	%(w/w)	<0.001	<0.001	<0.001

Method ID	Methodology Summary
ASB-001	Asbestos ID - Qualitative identification of asbestos in bulk samples using Polarised Light Microscopy and Dispersion Staining Techniques including Synthetic Mineral Fibre and Organic Fibre as per Australian Standard 4964-2004.
ASB-001	Asbestos ID - Identification of asbestos in soil samples using Polarised Light Microscopy and Dispersion Staining Techniques. Minimum 500mL soil sample was analysed as recommended by "National Environment Protection (Assessment of site contamination) Measure, Schedule B1 and "The Guidelines from the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia - May 2009" with a reporting limit of 0.1g/kg (0.01% w/w) as per Australian Standard AS4964-2004. Results reported denoted with * are outside our scope of NATA accreditation. **NOTE** #1 Total Asbestos g/kg was analysed and reported as per Australian Standard AS4964 (This is the sum of ACM >7mm, <7mm and FA/AF) **NOTE** #2 The screening level of 0.001% w/w asbestos in soil for FA and AF only applies where the FA and AF are able to be quantified by gravimetric procedures. This screening level is not applicable to free fibres. Estimation = Estimated asbestos weight Results reported with "--" is equivalent to no visible asbestos identified using Polarised Light microscopy and Dispersion Staining Techniques.
Inorg-008	Moisture content determined by heating at 105+/-5 °C for a minimum of 12 hours.
Metals-020	Determination of various metals by ICP-AES.
Metals-021	Determination of Mercury by Cold Vapour AAS.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD.

Method ID	Methodology Summary
Org-021	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-ECD. Note, the Total +ve PCBs PQL is reflective of the lowest individual PQL and is therefore" Total +ve PCBs" is simply a sum of the positive individual PCBs.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS.
Org-022/025	Soil samples are extracted with dichloromethane/acetone and waters with dichloromethane and analysed by GC-MS/GC-MSMS. Note, the Total +ve reported DDD+DDE+DDT PQL is reflective of the lowest individual PQL and is therefore simply a sum of the positive individually report DDD+DDE+DDT.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS and/or GC-MS/MS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013. For soil results:- 1. 'EQ PQL'values are assuming all contributing PAHs reported as <PQL are actually at the PQL. This is the most conservative approach and can give false positive TEQs given that PAHs that contribute to the TEQ calculation may not be present. 2. 'EQ zero'values are assuming all contributing PAHs reported as <PQL are zero. This is the least conservative approach and is more susceptible to false negative TEQs when PAHs that contribute to the TEQ calculation are present but below PQL. 3. 'EQ half PQL'values are assuming all contributing PAHs reported as <PQL are half the stipulated PQL. Hence a mid-point between the most and least conservative approaches above. Note, the Total +ve PAHs PQL is reflective of the lowest individual PQL and is therefore "Total +ve PAHs" is simply a sum of the positive individual PAHs.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			23/11/2020	4	23/11/2020	23/11/2020		23/11/2020	[NT]
TRH C_6 - C_9	mg/kg	25	Org-023	<25	4	<25	<25	0	115	[NT]
TRH C_6 - C_{10}	mg/kg	25	Org-023	<25	4	<25	<25	0	115	[NT]
Benzene	mg/kg	0.2	Org-023	<0.2	4	<0.2	<0.2	0	111	[NT]
Toluene	mg/kg	0.5	Org-023	<0.5	4	<0.5	<0.5	0	111	[NT]
Ethylbenzene	mg/kg	1	Org-023	<1	4	<1	<1	0	120	[NT]
m+p-xylene	mg/kg	2	Org-023	<2	4	<2	<2	0	116	[NT]
o-Xylene	mg/kg	1	Org-023	<1	4	<1	<1	0	114	[NT]
naphthalene	mg/kg	1	Org-023	<1	4	<1	<1	0	[NT]	[NT]
Surrogate aaa-Trifluorotoluene	%		Org-023	120	4	119	115	3	109	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			21/11/2020	4	21/11/2020	21/11/2020		21/11/2020	[NT]
TRH C_{10} - C_{14}	mg/kg	50	Org-020	<50	4	<50	<50	0	130	[NT]
TRH C_{15} - C_{28}	mg/kg	100	Org-020	<100	4	<100	<100	0	130	[NT]
TRH C_{29} - C_{36}	mg/kg	100	Org-020	<100	4	<100	<100	0	108	[NT]
TRH >C_{10} -C_{16}	mg/kg	50	Org-020	<50	4	<50	<50	0	130	[NT]
TRH >C_{16} -C_{34}	mg/kg	100	Org-020	<100	4	<100	<100	0	130	[NT]
TRH >C_{34} -C_{40}	mg/kg	100	Org-020	<100	4	<100	<100	0	108	[NT]
Surrogate o-Terphenyl	%		Org-020	112	4	96	111	14	94	[NT]

QUALITY CONTROL: PAHs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Naphthalene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	106	[NT]
Acenaphthylene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	108	[NT]
Fluorene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	104	[NT]
Phenanthrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	121	[NT]
Anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	100	[NT]
Pyrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	98	[NT]
Benzo(a)anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Chrysene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	120	[NT]
Benzo(b,j+k)fluoranthene	mg/kg	0.2	Org-022/025	<0.2	4	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	mg/kg	0.05	Org-022/025	<0.05	4	<0.05	<0.05	0	103	[NT]
Indeno(1,2,3-c,d)pyrene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	125	4	117	117	0	108	[NT]

QUALITY CONTROL: Organochlorine Pesticides in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
alpha-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	110	[NT]
HCB	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
beta-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	108	[NT]
gamma-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Heptachlor	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	125	[NT]
delta-BHC	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aldrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	114	[NT]
Heptachlor Epoxide	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	112	[NT]
gamma-Chlordane	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
alpha-chlordane	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Endosulfan I	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDE	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	96	[NT]
Dieldrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	95	[NT]
Endrin	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	86	[NT]
Endosulfan II	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDD	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	112	[NT]
Endrin Aldehyde	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
pp-DDT	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Endosulfan Sulphate	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	124	[NT]
Methoxychlor	mg/kg	0.1	Org-022/025	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-022/025	128	4	130	120	8	114	[NT]

QUALITY CONTROL: PCBs in Soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date extracted	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Aroclor 1016	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1221	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1232	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1242	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1248	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Aroclor 1254	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	120	[NT]
Aroclor 1260	mg/kg	0.1	Org-021	<0.1	4	<0.1	<0.1	0	[NT]	[NT]
Surrogate TCMX	%		Org-021	128	4	130	120	8	114	[NT]

QUALITY CONTROL: Acid Extractable metals in soil						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Date analysed	-			20/11/2020	4	20/11/2020	20/11/2020		20/11/2020	[NT]
Arsenic	mg/kg	4	Metals-020	<4	4	6	10	50	108	[NT]
Cadmium	mg/kg	0.4	Metals-020	<0.4	4	<0.4	<0.4	0	106	[NT]
Chromium	mg/kg	1	Metals-020	<1	4	11	16	37	103	[NT]
Copper	mg/kg	1	Metals-020	<1	4	10	11	10	106	[NT]
Lead	mg/kg	1	Metals-020	<1	4	14	17	19	105	[NT]
Mercury	mg/kg	0.1	Metals-021	<0.1	4	<0.1	<0.1	0	106	[NT]
Nickel	mg/kg	1	Metals-020	<1	4	5	6	18	104	[NT]
Zinc	mg/kg	1	Metals-020	<1	4	16	22	32	111	[NT]

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from “2018 TLVs and BEIs”, as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Report Comments

Asbestos-ID in soil: NEPM
This report is consistent with the reporting recommendations in the National Environment Protection (Assessment of Site Contamination) Measure, Schedule B1, May 2013. This is reported outside our scope of NATA accreditation.

03874 * Envirolab *

CHAIN OF CUSTODY

PROJECT NO.: 59884	LABORATORY BATCH NO.:
PROJECT NAME: Mange Road	SAMPLERS: CK
SEND REPORT TO: ckaufman SEND INVOICE TO: admin@jbsg.com.au	PHONE: SYDNEY 02 8245 0300 – PERTH 08 9488 0100 EMAIL:
DATE NEEDED BY: 48 hours	QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID		MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	Asbestos	HM	TRH/BTEX	PAH	OCP/PCB	NOTES:
QA01	1	Soil	16.11.20		B		X					
QA02	2	↓	↓		J			X	X	X		
QA03	3				B		X					
QA04	4				J							
QA05	5	↓	17.11.20		B+J			X	X	X	X	
							X	X		X		

Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200

Job No: 256165
Date Received: 19/11/20
Time Received: 1205
Received By: JO
Temp: Cool/Ambient
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: 18.11.20	CONSIGNMENT NOTE NO.	NAME: Jason Day	COOLER SEAL – (Yes) ..... No ..... (Intact) ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 19/11/20	COOLER TEMP 11.8 deg C
NAME: DATE:	CONSIGNMENT NOTE NO.	OF: ELS STD 1205 NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

SAMPLE RECEIPT ADVICE

Client Details

Client	JBS & G (NSW & WA) Pty Ltd
Attention	C Kauffman

Sample Login Details

Your reference	59884, Mamre Road
Envirolab Reference	256165
Date Sample Received	19/11/2020
Date Instructions Received	19/11/2020
Date Results Expected to be Reported	23/11/2020

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 SOIL
Turnaround Time Requested	2 days
Temperature on Receipt (°C)	11.8
Cooling Method	Ice Pack
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	**Phone: 02 9910 6200**
Fax: 02 9910 6201	**Fax: 02 9910 6201**
Email: ahie@envirolab.com.au	**Email: jhurst@envirolab.com.au**

Analysis Underway, details on the following page:

Envirolab Services Pty Ltd
ABN 37 112 535 645
12 Ashley St Chatswood NSW 2067
ph 02 9910 6200 fax 02 9910 6201
customerservice@envirolab.com.au
www.envirolab.com.au

Sample ID	vTRH(C6-C10)/BTEXN in Soil	svTRH (C10-C40) in Soil	PAHs in Soil	Organochlorine Pesticides in soil	PCBsin Soil	Acid Extractable metalsin soil	Asbestos ID - soils NEPM - ASB-001
QA01							✓
QA02	✓	✓	✓			✓	
QA03							✓
QA04	✓	✓	✓	✓	✓	✓	
QA05			✓			✓	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.
Requests for longer term sample storage must be received in writing.
Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.
TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **John De Martin**

Report **1260403-S**
Project name KEMPS CREEK
Project ID 70548
Received Date Aug 26, 2025

Client Sample ID			**TP02-0-0.1**	**TP03-0-0.1**	**TP04-0-0.1**	**TP05-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Au0070712**	**S25-Au0070713**	**S25-Au0070714**	**S25-Au0070715**
Date Sampled			**Aug 25, 2025**	**Aug 25, 2025**	**Aug 25, 2025**	**Aug 25, 2025**
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	24	24	28	25
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	99	104	111	118
13C5-PFPeA (surr.)	1	%	138	127	132	128
13C5-PFHxA (surr.)	1	%	105	100	96	104
13C4-PFHpA (surr.)	1	%	87	95	91	85
13C8-PFOA (surr.)	1	%	79	87	85	91
13C5-PFNA (surr.)	1	%	120	115	127	110
13C6-PFDA (surr.)	1	%	126	131	117	116
13C2-PFUnDA (surr.)	1	%	127	132	124	129
13C2-PFDoDA (surr.)	1	%	101	109	96	103
13C2-PFTeDA (surr.)	1	%	93	95	104	101
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10

Client Sample ID			TP02-0-0.1	TP03-0-0.1	TP04-0-0.1	TP05-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070712	S25-Au0070713	S25-Au0070714	S25-Au0070715
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
13C8-FOSA (surr.)	1	%	100	108	103	105
D3-N-MeFOSA (surr.)	1	%	85	101	105	105
D5-N-EtFOSA (surr.)	1	%	100	105	94	117
D7-N-MeFOSE (surr.)	1	%	89	81	82	80
D9-N-EtFOSE (surr.)	1	%	71	69	75	82
D5-N-EtFOSAA (surr.)	1	%	137	122	121	110
D3-N-MeFOSAA (surr.)	1	%	82	80	92	97
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	140	127	127	113
18O2-PFHxS (surr.)	1	%	78	78	79	74
13C8-PFOS (surr.)	1	%	109	120	116	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	70	77	62	67
13C2-6:2 FTSA (surr.)	1	%	79	109	105	115
13C2-8:2 FTSA (surr.)	1	%	84	78	89	82
13C2-10:2 FTSA (surr.)	1	%	127	106	122	98
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP06-0-0.1	TP11-0-0.1	TP12-0-0.1	TP13-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070716	S25-Au0070717	S25-Au0070718	S25-Au0070719
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	24	30	26	32

Client Sample ID			TP06-0-0.1	TP11-0-0.1	TP12-0-0.1	TP13-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070716	S25-Au0070717	S25-Au0070718	S25-Au0070719
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	103	123	109	116
13C5-PFPeA (surr.)	1	%	133	151	135	138
13C5-PFHxA (surr.)	1	%	104	111	95	97
13C4-PFHpA (surr.)	1	%	84	110	96	91
13C8-PFOA (surr.)	1	%	86	93	83	86
13C5-PFNA (surr.)	1	%	125	127	110	120
13C6-PFDA (surr.)	1	%	130	135	121	135
13C2-PFUnDA (surr.)	1	%	129	145	122	124
13C2-PFDoDA (surr.)	1	%	103	117	88	105
13C2-PFTeDA (surr.)	1	%	102	116	96	102
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	88	118	98	104
D3-N-MeFOSA (surr.)	1	%	109	139	102	113
D5-N-EtFOSA (surr.)	1	%	110	100	96	97
D7-N-MeFOSE (surr.)	1	%	79	92	79	81
D9-N-EtFOSE (surr.)	1	%	79	80	71	72
D5-N-EtFOSAA (surr.)	1	%	115	132	102	121
D3-N-MeFOSAA (surr.)	1	%	92	97	90	82
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP06-0-0.1	TP11-0-0.1	TP12-0-0.1	TP13-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070716	S25-Au0070717	S25-Au0070718	S25-Au0070719
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	106	141	126	138
18O2-PFHxS (surr.)	1	%	72	77	66	56
13C8-PFOS (surr.)	1	%	124	119	120	100
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	62	82	68	80
13C2-6:2 FTSA (surr.)	1	%	82	111	92	105
13C2-8:2 FTSA (surr.)	1	%	86	90	64	77
13C2-10:2 FTSA (surr.)	1	%	125	145	114	111
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP14-0-0.1	TP15-0-0.1	TP20-0-0.1	TP21-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070720	S25-Au0070721	S25-Au0070722	S25-Au0070723
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	25	34	16	25
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	117	118	123	127
13C5-PFPeA (surr.)	1	%	137	127	148	136
13C5-PFHxA (surr.)	1	%	90	101	107	110
13C4-PFHpA (surr.)	1	%	93	93	103	94
13C8-PFOA (surr.)	1	%	82	77	92	89
13C5-PFNA (surr.)	1	%	126	121	124	121
13C6-PFDA (surr.)	1	%	135	127	137	134
13C2-PFUnDA (surr.)	1	%	119	125	132	132

Client Sample ID			TP14-0-0.1	TP15-0-0.1	TP20-0-0.1	TP21-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070720	S25-Au0070721	S25-Au0070722	S25-Au0070723
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFDoDA (surr.)	1	%	105	98	118	99
13C2-PFTeDA (surr.)	1	%	101	93	99	106
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	102	97	110	98
D3-N-MeFOSA (surr.)	1	%	131	98	128	102
D5-N-EtFOSA (surr.)	1	%	108	101	99	104
D7-N-MeFOSE (surr.)	1	%	80	57	93	85
D9-N-EtFOSE (surr.)	1	%	77	67	82	83
D5-N-EtFOSAA (surr.)	1	%	125	109	115	111
D3-N-MeFOSAA (surr.)	1	%	101	96	112	110
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	128	118	150	138
18O2-PFHxS (surr.)	1	%	72	72	88	76
13C8-PFOS (surr.)	1	%	111	96	111	122
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	73	78	67	68
13C2-6:2 FTSA (surr.)	1	%	80	94	101	124
13C2-8:2 FTSA (surr.)	1	%	99	87	74	116
13C2-10:2 FTSA (surr.)	1	%	97	115	109	121
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP22-0-0.1	TP23-0-0.1	TP24-0-0.1	TP28-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070724	S25-Au0070725	S25-Au0070726	S25-Au0070727
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	21	36	21	31
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	115	114	124	116
13C5-PFPeA (surr.)	1	%	130	116	141	129
13C5-PFHxA (surr.)	1	%	98	105	106	109
13C4-PFHpA (surr.)	1	%	87	82	93	84
13C8-PFOA (surr.)	1	%	91	73	94	82
13C5-PFNA (surr.)	1	%	129	125	132	110
13C6-PFDA (surr.)	1	%	125	117	126	128
13C2-PFUnDA (surr.)	1	%	135	120	129	125
13C2-PFDoDA (surr.)	1	%	98	99	113	101
13C2-PFTeDA (surr.)	1	%	100	95	98	112
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	102	85	99	111
D3-N-MeFOSA (surr.)	1	%	87	100	109	101
D5-N-EtFOSA (surr.)	1	%	98	110	112	109
D7-N-MeFOSE (surr.)	1	%	86	71	86	67
D9-N-EtFOSE (surr.)	1	%	79	75	81	76
D5-N-EtFOSAA (surr.)	1	%	155	105	114	112
D3-N-MeFOSAA (surr.)	1	%	114	88	101	93
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP22-0-0.1	TP23-0-0.1	TP24-0-0.1	TP28-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070724	S25-Au0070725	S25-Au0070726	S25-Au0070727
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	145	102	141	124
18O2-PFHxS (surr.)	1	%	68	66	85	63
13C8-PFOS (surr.)	1	%	126	109	128	112
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	93	71	77	71
13C2-6:2 FTSA (surr.)	1	%	138	84	103	84
13C2-8:2 FTSA (surr.)	1	%	108	51	50	90
13C2-10:2 FTSA (surr.)	1	%	143	109	110	108
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP29-0-0.1	TP30-0-0.1	TP31-0-0.1	TP32-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070728	S25-Au0070729	S25-Au0070730	S25-Au0070731
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	25	21	24	29
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	131	110	130	115
13C5-PFPeA (surr.)	1	%	132	126	132	142
13C5-PFHxA (surr.)	1	%	113	100	117	105
13C4-PFHpA (surr.)	1	%	103	84	103	94
13C8-PFOA (surr.)	1	%	83	89	101	83
13C5-PFNA (surr.)	1	%	115	116	127	130

Client Sample ID			TP29-0-0.1	TP30-0-0.1	TP31-0-0.1	TP32-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070728	S25-Au0070729	S25-Au0070730	S25-Au0070731
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	123	128	144	131
13C2-PFUnDA (surr.)	1	%	145	129	137	136
13C2-PFDoDA (surr.)	1	%	108	101	111	105
13C2-PFTeDA (surr.)	1	%	112	109	116	103
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	109	103	111	105
D3-N-MeFOSA (surr.)	1	%	94	104	142	113
D5-N-EtFOSA (surr.)	1	%	112	89	108	104
D7-N-MeFOSE (surr.)	1	%	86	89	89	83
D9-N-EtFOSE (surr.)	1	%	78	81	75	88
D5-N-EtFOSAA (surr.)	1	%	149	126	114	110
D3-N-MeFOSAA (surr.)	1	%	98	106	109	102
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	140	123	133	131
18O2-PFHxS (surr.)	1	%	87	72	91	70
13C8-PFOS (surr.)	1	%	138	108	130	137
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	87	63	84	76
13C2-6:2 FTSA (surr.)	1	%	101	94	129	116
13C2-8:2 FTSA (surr.)	1	%	89	80	80	93
13C2-10:2 FTSA (surr.)	1	%	146	108	96	111

Client Sample ID			TP29-0-0.1	TP30-0-0.1	TP31-0-0.1	TP32-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070728	S25-Au0070729	S25-Au0070730	S25-Au0070731
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP33-0-0.1	TP233-0-0.1	TP234-0-0.1	TP235-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070732	S25-Au0070733	S25-Au0070734	S25-Au0070735
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	27	21	17	20
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	117	134	127	130
13C5-PFPeA (surr.)	1	%	147	127	142	130
13C5-PFHxA (surr.)	1	%	99	110	105	115
13C4-PFHpA (surr.)	1	%	104	94	106	96
13C8-PFOA (surr.)	1	%	101	104	92	100
13C5-PFNA (surr.)	1	%	132	125	124	168
13C6-PFDA (surr.)	1	%	133	133	137	146
13C2-PFUnDA (surr.)	1	%	132	123	136	134
13C2-PFDoDA (surr.)	1	%	109	110	107	106
13C2-PFTeDA (surr.)	1	%	109	101	101	119
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	111	112	113	93
D3-N-MeFOSA (surr.)	1	%	105	124	113	122

Client Sample ID			TP33-0-0.1	TP233-0-0.1	TP234-0-0.1	TP235-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070732	S25-Au0070733	S25-Au0070734	S25-Au0070735
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	108	103	120	109
D7-N-MeFOSE (surr.)	1	%	94	91	94	87
D9-N-EtFOSE (surr.)	1	%	78	72	82	64
D5-N-EtFOSAA (surr.)	1	%	96	115	116	131
D3-N-MeFOSAA (surr.)	1	%	90	81	104	96
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	137	133	134	131
18O2-PFHxS (surr.)	1	%	90	97	88	93
13C8-PFOS (surr.)	1	%	126	107	132	134
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	79	69	62	100
13C2-6:2 FTSA (surr.)	1	%	109	107	118	119
13C2-8:2 FTSA (surr.)	1	%	65	92	49	76
13C2-10:2 FTSA (surr.)	1	%	117	111	120	128
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP236-0-0.1	TP237-0-0.1	TP238-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070736	S25-Au0070737	S25-Au0070738	S25-Au0070739
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	23	29	21	20
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP236-0-0.1	TP237-0-0.1	TP238-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070736	S25-Au0070737	S25-Au0070738	S25-Au0070739
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	134	121	137	128
13C5-PFPeA (surr.)	1	%	139	133	156	131
13C5-PFHxA (surr.)	1	%	104	106	107	118
13C4-PFHpA (surr.)	1	%	104	102	94	93
13C8-PFOA (surr.)	1	%	102	100	98	96
13C5-PFNA (surr.)	1	%	117	131	117	129
13C6-PFDA (surr.)	1	%	125	123	134	128
13C2-PFUnDA (surr.)	1	%	137	130	133	126
13C2-PFDoDA (surr.)	1	%	97	120	113	89
13C2-PFTeDA (surr.)	1	%	112	109	113	103
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	112	110	119	106
D3-N-MeFOSA (surr.)	1	%	119	119	114	105
D5-N-EtFOSA (surr.)	1	%	114	122	115	122
D7-N-MeFOSE (surr.)	1	%	104	87	105	88
D9-N-EtFOSE (surr.)	1	%	80	81	80	64
D5-N-EtFOSAA (surr.)	1	%	128	118	120	123
D3-N-MeFOSAA (surr.)	1	%	92	110	98	86
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	146	155	122	131
18O2-PFHxS (surr.)	1	%	102	76	99	81
13C8-PFOS (surr.)	1	%	122	129	134	137

Client Sample ID			TP236-0-0.1	TP237-0-0.1	TP238-0-0.1	TP07-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070736	S25-Au0070737	S25-Au0070738	S25-Au0070739
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	64	77	81	84
13C2-6:2 FTSA (surr.)	1	%	115	117	105	103
13C2-8:2 FTSA (surr.)	1	%	88	81	51	83
13C2-10:2 FTSA (surr.)	1	%	130	114	125	116
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP08-0-0.1	TP09-0-0.1	TP16-0-0.1	TP17-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070740	S25-Au0070741	S25-Au0070742	S25-Au0070743
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	21	18	21	26
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	122	139	127	111
13C5-PFPeA (surr.)	1	%	134	134	149	132
13C5-PFHxA (surr.)	1	%	109	112	110	112
13C4-PFHpA (surr.)	1	%	106	109	108	106
13C8-PFOA (surr.)	1	%	95	106	97	95
13C5-PFNA (surr.)	1	%	134	123	135	124
13C6-PFDA (surr.)	1	%	130	123	135	126
13C2-PFUnDA (surr.)	1	%	129	143	129	130
13C2-PFDoDA (surr.)	1	%	96	100	98	110
13C2-PFTeDA (surr.)	1	%	116	111	114	107

Client Sample ID			TP08-0-0.1	TP09-0-0.1	TP16-0-0.1	TP17-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070740	S25-Au0070741	S25-Au0070742	S25-Au0070743
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	106	97	117	104
D3-N-MeFOSA (surr.)	1	%	127	120	104	123
D5-N-EtFOSA (surr.)	1	%	102	113	123	98
D7-N-MeFOSE (surr.)	1	%	73	94	89	99
D9-N-EtFOSE (surr.)	1	%	64	59	79	76
D5-N-EtFOSAA (surr.)	1	%	113	91	113	127
D3-N-MeFOSAA (surr.)	1	%	91	100	105	105
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	151	148	150	121
18O2-PFHxS (surr.)	1	%	87	83	85	87
13C8-PFOS (surr.)	1	%	130	106	119	133
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	71	88	76	96
13C2-6:2 FTSA (surr.)	1	%	101	89	110	125
13C2-8:2 FTSA (surr.)	1	%	85	80	119	94
13C2-10:2 FTSA (surr.)	1	%	109	110	123	129
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP18-0-0.1	TP25-0-0.1	TP26-0-0.1	TP27-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070744	S25-Au0070745	S25-Au0070746	S25-Au0070747
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	26	30	22	23
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	118	114	113	114
13C5-PFPeA (surr.)	1	%	134	146	132	139
13C5-PFHxA (surr.)	1	%	109	111	111	108
13C4-PFHpA (surr.)	1	%	98	94	97	103
13C8-PFOA (surr.)	1	%	103	97	101	99
13C5-PFNA (surr.)	1	%	138	122	117	136
13C6-PFDA (surr.)	1	%	121	136	128	138
13C2-PFUnDA (surr.)	1	%	128	136	140	137
13C2-PFDoDA (surr.)	1	%	112	112	109	110
13C2-PFTeDA (surr.)	1	%	113	105	111	112
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	103	90	109	105
D3-N-MeFOSA (surr.)	1	%	113	111	116	114
D5-N-EtFOSA (surr.)	1	%	113	118	117	117
D7-N-MeFOSE (surr.)	1	%	95	94	99	90
D9-N-EtFOSE (surr.)	1	%	71	76	90	75
D5-N-EtFOSAA (surr.)	1	%	124	109	129	108
D3-N-MeFOSAA (surr.)	1	%	93	106	89	101
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5

Client Sample ID			TP18-0-0.1	TP25-0-0.1	TP26-0-0.1	TP27-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070744	S25-Au0070745	S25-Au0070746	S25-Au0070747
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	150	124	139	132
18O2-PFHxS (surr.)	1	%	89	81	83	99
13C8-PFOS (surr.)	1	%	106	114	129	117
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	82	80	71	82
13C2-6:2 FTSA (surr.)	1	%	102	106	116	81
13C2-8:2 FTSA (surr.)	1	%	89	121	71	79
13C2-10:2 FTSA (surr.)	1	%	108	103	140	136
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP34-0-0.1	TP35-0-0.1	TP36-0-0.1	TP239-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070748	S25-Au0070749	S25-Au0070750	S25-Au0070751
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	22	25	23	15
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	108	110	120	114
13C5-PFPeA (surr.)	1	%	136	144	139	133
13C5-PFHxA (surr.)	1	%	104	96	103	105
13C4-PFHpA (surr.)	1	%	94	97	96	109
13C8-PFOA (surr.)	1	%	104	86	98	100
13C5-PFNA (surr.)	1	%	121	116	135	128

Client Sample ID			TP34-0-0.1	TP35-0-0.1	TP36-0-0.1	TP239-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070748	S25-Au0070749	S25-Au0070750	S25-Au0070751
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C6-PFDA (surr.)	1	%	131	121	137	137
13C2-PFUnDA (surr.)	1	%	127	132	131	132
13C2-PFDoDA (surr.)	1	%	113	111	102	109
13C2-PFTeDA (surr.)	1	%	95	95	109	114
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	103	86	104	107
D3-N-MeFOSA (surr.)	1	%	112	114	106	110
D5-N-EtFOSA (surr.)	1	%	110	105	120	101
D7-N-MeFOSE (surr.)	1	%	72	83	105	94
D9-N-EtFOSE (surr.)	1	%	69	69	72	72
D5-N-EtFOSAA (surr.)	1	%	116	108	118	132
D3-N-MeFOSAA (surr.)	1	%	88	79	100	96
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	121	119	136	133
18O2-PFHxS (surr.)	1	%	87	86	91	74
13C8-PFOS (surr.)	1	%	111	123	124	137
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	64	73	86	59
13C2-6:2 FTSA (surr.)	1	%	85	106	114	72
13C2-8:2 FTSA (surr.)	1	%	79	64	103	73
13C2-10:2 FTSA (surr.)	1	%	117	106	107	102

Client Sample ID			TP34-0-0.1	TP35-0-0.1	TP36-0-0.1	TP239-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070748	S25-Au0070749	S25-Au0070750	S25-Au0070751
Date Sampled			Aug 26, 2025	Aug 26, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			TP240-0-0.1	QC20250825_P01	QC20250825_P02	QC20250825_P03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070757	S25-Au0070758	S25-Au0070759	S25-Au0070760
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	25	30	30	20
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C4-PFBA (surr.)	1	%	119	110	111	124
13C5-PFPeA (surr.)	1	%	134	145	135	141
13C5-PFHxA (surr.)	1	%	112	108	106	95
13C4-PFHpA (surr.)	1	%	103	98	94	105
13C8-PFOA (surr.)	1	%	102	93	90	91
13C5-PFNA (surr.)	1	%	125	115	130	138
13C6-PFDA (surr.)	1	%	119	130	132	129
13C2-PFUnDA (surr.)	1	%	126	129	124	134
13C2-PFDoDA (surr.)	1	%	103	99	94	109
13C2-PFTeDA (surr.)	1	%	108	103	116	101
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
13C8-FOSA (surr.)	1	%	107	100	110	96
D3-N-MeFOSA (surr.)	1	%	121	99	111	116

Client Sample ID			TP240-0-0.1	QC20250825_P01	QC20250825_P02	QC20250825_P03
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Au0070757	S25-Au0070758	S25-Au0070759	S25-Au0070760
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	108	114	120	107
D7-N-MeFOSE (surr.)	1	%	105	89	99	95
D9-N-EtFOSE (surr.)	1	%	75	58	75	74
D5-N-EtFOSAA (surr.)	1	%	113	113	112	131
D3-N-MeFOSAA (surr.)	1	%	102	95	116	100
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5	< 5	< 5
13C3-PFBS (surr.)	1	%	146	127	120	146
18O2-PFHxS (surr.)	1	%	104	85	97	92
13C8-PFOS (surr.)	1	%	118	121	116	123
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	68	75	74	77
13C2-6:2 FTSA (surr.)	1	%	101	125	101	107
13C2-8:2 FTSA (surr.)	1	%	109	95	103	85
13C2-10:2 FTSA (surr.)	1	%	106	123	108	110
PFASs Summations						
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50	< 50	< 50

Client Sample ID			QC20250825_P04	QC20250825_P05
Sample Matrix			Soil	Soil
Eurofins Sample No.			S25-Au0070761	S25-Au0070762
Date Sampled			Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit		
Sample Properties				
% Moisture	1	%	22	26
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	5	ug/kg	< 5	< 5
Perfluoropentanoic acid (PFPeA)[N11]	5	ug/kg	< 5	< 5
Perfluorohexanoic acid (PFHxA)[N11]	5	ug/kg	< 5	< 5
Perfluoroheptanoic acid (PFHpA)[N11]	5	ug/kg	< 5	< 5

Client Sample ID			QC20250825_P04	QC20250825_P05
Sample Matrix			Soil	Soil
Eurofins Sample No.			S25-Au0070761	S25-Au0070762
Date Sampled			Aug 25, 2025	Aug 25, 2025
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorooctanoic acid (PFOA)[N11]	5	ug/kg	< 5	< 5
Perfluorononanoic acid (PFNA)[N11]	5	ug/kg	< 5	< 5
Perfluorodecanoic acid (PFDA)[N11]	5	ug/kg	< 5	< 5
Perfluoroundecanoic acid (PFUnDA)[N11]	5	ug/kg	< 5	< 5
Perfluorododecanoic acid (PFDoDA)[N11]	5	ug/kg	< 5	< 5
Perfluorotridecanoic acid (PFTrDA)[N15]	5	ug/kg	< 5	< 5
Perfluorotetradecanoic acid (PFTeDA)[N11]	5	ug/kg	< 5	< 5
13C4-PFBA (surr.)	1	%	115	118
13C5-PFPeA (surr.)	1	%	134	140
13C5-PFHxA (surr.)	1	%	110	109
13C4-PFHpA (surr.)	1	%	109	111
13C8-PFOA (surr.)	1	%	96	101
13C5-PFNA (surr.)	1	%	127	134
13C6-PFDA (surr.)	1	%	143	133
13C2-PFUnDA (surr.)	1	%	134	138
13C2-PFDoDA (surr.)	1	%	106	109
13C2-PFTeDA (surr.)	1	%	111	114
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	5	ug/kg	< 5	< 5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	5	ug/kg	< 5	< 5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	5	ug/kg	< 5	< 5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	5	ug/kg	< 5	< 5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	5	ug/kg	< 5	< 5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	10	ug/kg	< 10	< 10
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	10	ug/kg	< 10	< 10
13C8-FOSA (surr.)	1	%	113	109
D3-N-MeFOSA (surr.)	1	%	114	119
D5-N-EtFOSA (surr.)	1	%	103	98
D7-N-MeFOSE (surr.)	1	%	80	95
D9-N-EtFOSE (surr.)	1	%	76	71
D5-N-EtFOSAA (surr.)	1	%	103	125
D3-N-MeFOSAA (surr.)	1	%	102	105
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	5	ug/kg	< 5	< 5
Perfluorononanesulfonic acid (PFNS)[N15]	5	ug/kg	< 5	< 5
Perfluoropropanesulfonic acid (PFPrS)[N15]	5	ug/kg	< 5	< 5
Perfluoropentanesulfonic acid (PFPeS)[N15]	5	ug/kg	< 5	< 5
Perfluorohexanesulfonic acid (PFHxS)[N11]	5	ug/kg	< 5	< 5
Perfluoroheptanesulfonic acid (PFHpS)[N15]	5	ug/kg	< 5	< 5
Perfluorooctanesulfonic acid (PFOS)[N11]	5	ug/kg	< 5	< 5
Perfluorodecanesulfonic acid (PFDS)[N15]	5	ug/kg	< 5	< 5
13C3-PFBS (surr.)	1	%	156	142
18O2-PFHxS (surr.)	1	%	88	83
13C8-PFOS (surr.)	1	%	108	132

Client Sample ID			QC20250825_P04	QC20250825_P05
Sample Matrix			**Soil**	**Soil**
Eurofins Sample No.			**S25-Au0070761**	**S25-Au0070762**
Date Sampled			**Aug 25, 2025**	**Aug 25, 2025**
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	5	ug/kg	< 5	< 5
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	10	ug/kg	< 10	< 10
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	5	ug/kg	< 5	< 5
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	5	ug/kg	< 5	< 5
13C2-4:2 FTSA (surr.)	1	%	84	63
13C2-6:2 FTSA (surr.)	1	%	91	93
13C2-8:2 FTSA (surr.)	1	%	61	85
13C2-10:2 FTSA (surr.)	1	%	124	123
PFASs Summations				
Sum (PFHxS + PFOS)*	5	ug/kg	< 5	< 5
Sum of WA DWER PFAS (n=10)*	10	ug/kg	< 10	< 10
Sum of PFASs (n=30)*	50	ug/kg	< 50	< 50

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture	Sydney	Aug 26, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Aug 27, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Aug 27, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Aug 27, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Aug 27, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Sydney
NSW 2000

Project Name: KEMPS CREEK
Project ID: 70548

Order No.:
Report #: 1260403
Phone: 02 8245 0300
Fax:

Received: Aug 26, 2025 12:20 PM
Due: Sep 2, 2025
Priority: 5 Day
Contact Name: John De Martin

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP02-0-0.1	Aug 25, 2025		Soil	S25-Au0070712	X		X	
2	TP03-0-0.1	Aug 25, 2025		Soil	S25-Au0070713	X		X	
3	TP04-0-0.1	Aug 25, 2025		Soil	S25-Au0070714	X		X	
4	TP05-0-0.1	Aug 25, 2025		Soil	S25-Au0070715	X		X	
5	TP06-0-0.1	Aug 25, 2025		Soil	S25-Au0070716	X		X	
6	TP11-0-0.1	Aug 25, 2025		Soil	S25-Au0070717	X		X	
7	TP12-0-0.1	Aug 25, 2025		Soil	S25-Au0070718	X		X	
8	TP13-0-0.1	Aug 25, 2025		Soil	S25-Au0070719	X		X	
9	TP14-0-0.1	Aug 25, 2025		Soil	S25-Au0070720	X		X	
10	TP15-0-0.1	Aug 25, 2025		Soil	S25-Au0070721	X		X	
11	TP20-0-0.1	Aug 25, 2025		Soil	S25-Au0070722	X		X	
12	TP21-0-0.1	Aug 25, 2025		Soil	S25-Au0070723	X		X	
13	TP22-0-0.1	Aug 25, 2025		Soil	S25-Au0070724	X		X	
14	TP23-0-0.1	Aug 25, 2025		Soil	S25-Au0070725	X		X	

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6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Auckland	Auckland (Focus)	Christchurch	Tauranga
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Penrose	Mount Wellington	Rolleston	Gate Pa
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: KEMPS CREEK
Project ID: 70548

Order No.:
Report #: 1260403
Phone: 02 8245 0300
Fax:

Received: Aug 26, 2025 12:20 PM
Due: Sep 2, 2025
Priority: 5 Day
Contact Name: John De Martin

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
15	TP24-0-0.1	Aug 25, 2025		Soil	S25-Au0070726	X		X	
16	TP28-0-0.1	Aug 25, 2025		Soil	S25-Au0070727	X		X	
17	TP29-0-0.1	Aug 25, 2025		Soil	S25-Au0070728	X		X	
18	TP30-0-0.1	Aug 25, 2025		Soil	S25-Au0070729	X		X	
19	TP31-0-0.1	Aug 25, 2025		Soil	S25-Au0070730	X		X	
20	TP32-0-0.1	Aug 25, 2025		Soil	S25-Au0070731	X		X	
21	TP33-0-0.1	Aug 25, 2025		Soil	S25-Au0070732	X		X	
22	TP233-0-0.1	Aug 25, 2025		Soil	S25-Au0070733	X		X	
23	TP234-0-0.1	Aug 25, 2025		Soil	S25-Au0070734	X		X	
24	TP235-0-0.1	Aug 25, 2025		Soil	S25-Au0070735	X		X	
25	TP236-0-0.1	Aug 25, 2025		Soil	S25-Au0070736	X		X	
26	TP237-0-0.1	Aug 25, 2025		Soil	S25-Au0070737	X		X	
27	TP238-0-0.1	Aug 25, 2025		Soil	S25-Au0070738	X		X	
28	TP07-0-0.1	Aug 26, 2025		Soil	S25-Au0070739	X		X	
29	TP08-0-0.1	Aug 26, 2025		Soil	S25-Au0070740	X		X	
30	TP09-0-0.1	Aug 26, 2025		Soil	S25-Au0070741	X		X	
31	TP16-0-0.1	Aug 26, 2025		Soil	S25-Au0070742	X		X	

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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Sample Detail						Moisture Set	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
32	TP17-0-0.1	Aug 26, 2025		Soil	S25-Au0070743	X		X	
33	TP18-0-0.1	Aug 26, 2025		Soil	S25-Au0070744	X		X	
34	TP25-0-0.1	Aug 26, 2025		Soil	S25-Au0070745	X		X	
35	TP26-0-0.1	Aug 26, 2025		Soil	S25-Au0070746	X		X	
36	TP27-0-0.1	Aug 26, 2025		Soil	S25-Au0070747	X		X	
37	TP34-0-0.1	Aug 26, 2025		Soil	S25-Au0070748	X		X	
38	TP35-0-0.1	Aug 26, 2025		Soil	S25-Au0070749	X		X	
39	TP36-0-0.1	Aug 26, 2025		Soil	S25-Au0070750	X		X	
40	TP239-0-0.1	Aug 26, 2025		Soil	S25-Au0070751	X		X	
41	W01	Aug 25, 2025		Water	S25-Au0070752			X	
42	W02	Aug 25, 2025		Water	S25-Au0070753			X	
43	W03	Aug 25, 2025		Water	S25-Au0070754			X	
44	W04	Aug 26, 2025		Water	S25-Au0070755			X	
45	W05	Aug 26, 2025		Water	S25-Au0070756			X	
46	TP240-0-0.1	Aug 25, 2025		Soil	S25-Au0070757	X		X	
47	QC20250825_P01	Aug 25, 2025		Soil	S25-Au0070758	X		X	

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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Sample Detail						Moisture Set	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
48	QC20250825_P02	Aug 25, 2025		Soil	S25-Au0070759	X		X	
49	QC20250825_P03	Aug 25, 2025		Soil	S25-Au0070760	X		X	
50	QC20250825_P04	Aug 25, 2025		Soil	S25-Au0070761	X		X	
51	QC20250825_P05	Aug 25, 2025		Soil	S25-Au0070762	X		X	
52	QC20250825_W01	Aug 25, 2025		Water	S25-Au0070763			X	
53	PFAS BLANK	Aug 26, 2025		Water	S25-Au0070764			X	
54	TS	Aug 26, 2025		Trip Spike (liquid)	S25-Au0070765				X
55	TB	Aug 26, 2025		Trip Blank (liquid)	S25-Au0070766		X		
56	RINSATE	Aug 26, 2025		Water	S25-Au0070767			X	
Test Counts						46	1	54	1

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/kg	< 5			5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 5			5	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 5			5	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 5			5	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 5			5	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 5			5	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 5			5	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 5			5	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 5			5	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 5			5	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 5			5	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 5			5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 5			5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 5			5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 5			5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 5			5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 10			10	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 10			10	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 5			5	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 5			5	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 5			5	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 5			5	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 5			5	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 5			5	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 5			5	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 5			5	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 10			10	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 5			5	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 5			5	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	98			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	117			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	87			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	81			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	102			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	130			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	87			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	91			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	134			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	105			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	113			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	149			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	93			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	74			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	100			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	91			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	79			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	84			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	82			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	122			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	105			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	101			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	95			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanoic acid (PFOA)	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	112			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	84			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	83			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	116			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	75			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	124			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	111			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	118			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	85			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	111			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	71			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	85			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	85			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	81			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	108			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	108			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	94			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	72			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	111			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	80			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	82			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	98			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	121			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	124			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	70			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	115			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	112			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	122			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	103			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	127			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	81			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	88			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	75			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	83			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	80			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	104			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	112			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Au0070712	CP	%	103			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070712	CP	%	99			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070712	CP	%	95			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070712	CP	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070712	CP	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070712	CP	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070712	CP	%	76			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070712	CP	%	89			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070712	CP	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070712	CP	%	86			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070712	CP	%	112			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Au0070712	CP	%	71			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070712	CP	%	75			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070712	CP	%	127			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070712	CP	%	119			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070712	CP	%	110			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070712	CP	%	81			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070712	CP	%	141			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070712	CP	%	79			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070712	CP	%	78			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070712	CP	%	64			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070712	CP	%	98			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070712	CP	%	77			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070712	CP	%	82			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070712	CP	%	83			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070712	CP	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070712	CP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070712	CP	%	119			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070712	CP	%	105			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Au0072525	NCP	%	94			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0072525	NCP	%	104			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0072525	NCP	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0072525	NCP	%	110			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0072525	NCP	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0072525	NCP	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0072525	NCP	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0072525	NCP	%	88			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0072525	NCP	%	91			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0072525	NCP	%	71			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0072525	NCP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Au0072525	NCP	%	69			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0072525	NCP	%	80			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0072525	NCP	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0072525	NCP	%	96			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0072525	NCP	%	131			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0072525	NCP	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0072525	NCP	%	123			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-Au0072525	NCP	%	74			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	S25-Au0072525	NCP	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0072525	NCP	%	71			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0072525	NCP	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0072525	NCP	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0072525	NCP	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0072525	NCP	%	91			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0072525	NCP	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0072525	NCP	%	71			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0072525	NCP	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0072525	NCP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Au0070762	CP	%	90			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070762	CP	%	95			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070762	CP	%	93			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070762	CP	%	87			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070762	CP	%	61			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070762	CP	%	97			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070762	CP	%	77			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070762	CP	%	78			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070762	CP	%	94			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070762	CP	%	102			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070762	CP	%	122			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Au0070762	CP	%	62			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070762	CP	%	85			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070762	CP	%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070762	CP	%	94			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070762	CP	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070762	CP	%	113			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070762	CP	%	125			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070762	CP	%	59			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070762	CP	%	77			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070762	CP	%	59			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070762	CP	%	79			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070762	CP	%	87			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070762	CP	%	75			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070762	CP	%	82			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070762	CP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070762	CP	%	72			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070762	CP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070762	CP	%	87			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0072524	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0072524	NCP	ug/kg	< 10	< 10	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0072524	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0072524	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0070713	CP	%	24	24	2.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070721	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070721	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070543	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070543	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070543	NCP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070543	NCP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0070723	CP	%	25	26	6.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorododecanoic acid (PFDoDA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070730	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070730	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070730	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070730	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0070734	CP	%	17	17	4.0	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070742	CP	ug/kg	< 10	< 10	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070742	CP	ug/kg	< 10	< 10	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070742	CP	ug/kg	< 10	< 10	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070742	CP	ug/kg	< 5	< 5	<1	30%	Pass	

Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0070744	CP	%	26	25	3.0	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Au0070759	CP	%	30	30	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

Nileshni Goundar	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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NATA Accredited
Accreditation Number 1261
Site Number 18217

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Attention: **John De Martin**

Report **1260403-W**
Project name KEMPS CREEK
Project ID 70548
Received Date Aug 26, 2025

Client Sample ID			**W01**	**W02**	**W03**	**W04**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**S25-Au0070752**	**S25-Au0070753**	**S25-Au0070754**	**S25-Au0070755**
Date Sampled			**Aug 25, 2025**	**Aug 25, 2025**	**Aug 25, 2025**	**Aug 26, 2025**
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	88	77	81	95
13C5-PFPeA (surr.)	1	%	95	75	89	109
13C5-PFHxA (surr.)	1	%	100	76	91	97
13C4-PFHpA (surr.)	1	%	83	78	81	118
13C8-PFOA (surr.)	1	%	102	91	100	99
13C5-PFNA (surr.)	1	%	76	75	74	83
13C6-PFDA (surr.)	1	%	93	71	81	83
13C2-PFUnDA (surr.)	1	%	71	68	65	80
13C2-PFDoDA (surr.)	1	%	103	65	60	68
13C2-PFTeDA (surr.)	1	%	INT	55	64	64
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	103	73	70	83
D3-N-MeFOSA (surr.)	1	%	114	94	64	70

Client Sample ID			W01	W02	W03	W04
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			S25-Au0070752	S25-Au0070753	S25-Au0070754	S25-Au0070755
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	142	101	67	79
D7-N-MeFOSE (surr.)	1	%	91	75	59	68
D9-N-EtFOSE (surr.)	1	%	96	71	51	66
D5-N-EtFOSAA (surr.)	1	%	89	61	56	64
D3-N-MeFOSAA (surr.)	1	%	74	62	59	79
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	88	84	94
18O2-PFHxS (surr.)	1	%	87	79	82	105
13C8-PFOS (surr.)	1	%	81	76	78	92
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	113	98	120	151
13C2-6:2 FTSA (surr.)	1	%	78	82	162	161
13C2-8:2 FTSA (surr.)	1	%	90	58	70	95
13C2-10:2 FTSA (surr.)	1	%	109	58	59	72
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			W05	QC20250825_W01	PFAS BLANK	TS
Sample Matrix			Water	Water	Water	Trip Spike (liquid)
Eurofins Sample No.			S25-Au0070756	S25-Au0070763	S25-Au0070764	S25-Au0070765
Date Sampled			Aug 26, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.01	< 0.01	< 0.01	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-

Client Sample ID			W05	QC20250825_W01	PFAS BLANK	TS
Sample Matrix			Water	Water	Water	Trip Spike (liquid)
Eurofins Sample No.			S25-Au0070756	S25-Au0070763	S25-Au0070764	S25-Au0070765
Date Sampled			Aug 26, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C4-PFBA (surr.)	1	%	108	82	90	-
13C5-PFPeA (surr.)	1	%	87	88	81	-
13C5-PFHxA (surr.)	1	%	113	88	79	-
13C4-PFHpA (surr.)	1	%	123	86	92	-
13C8-PFOA (surr.)	1	%	137	92	95	-
13C5-PFNA (surr.)	1	%	109	81	85	-
13C6-PFDA (surr.)	1	%	104	81	85	-
13C2-PFUnDA (surr.)	1	%	110	77	86	-
13C2-PFDoDA (surr.)	1	%	99	64	87	-
13C2-PFTeDA (surr.)	1	%	80	57	77	-
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
13C8-FOSA (surr.)	1	%	112	75	95	-
D3-N-MeFOSA (surr.)	1	%	103	103	77	-
D5-N-EtFOSA (surr.)	1	%	104	96	89	-
D7-N-MeFOSE (surr.)	1	%	78	76	85	-
D9-N-EtFOSE (surr.)	1	%	92	75	81	-
D5-N-EtFOSAA (surr.)	1	%	87	64	78	-
D3-N-MeFOSAA (surr.)	1	%	90	74	80	-
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.04	< 0.01	< 0.01	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C3-PFBS (surr.)	1	%	124	90	94	-
18O2-PFHxS (surr.)	1	%	123	90	122	-
13C8-PFOS (surr.)	1	%	110	85	94	-

Client Sample ID			W05	QC20250825_W01	PFAS BLANK	TS
Sample Matrix			Water	Water	Water	Trip Spike (liquid)
Eurofins Sample No.			S25-Au0070756	S25-Au0070763	S25-Au0070764	S25-Au0070765
Date Sampled			Aug 26, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
1H,1H,2H,2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	-
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
1H,1H,2H,2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
13C2-4:2 FTSA (surr.)	1	%	INT	119	121	-
13C2-6:2 FTSA (surr.)	1	%	133	100	102	-
13C2-8:2 FTSA (surr.)	1	%	95	83	96	-
13C2-10:2 FTSA (surr.)	1	%	108	67	89	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	< 0.01	< 0.01	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.07	< 0.05	< 0.05	-
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	-
TRH C6-C10	1	%	-	-	-	75
Total Recoverable Hydrocarbons						
Naphthalene	1	%	-	-	-	98
TRH C6-C9	1	%	-	-	-	76
BTEX						
Benzene	1	%	-	-	-	110
Ethylbenzene	1	%	-	-	-	110
m&p-Xylenes	1	%	-	-	-	120
o-Xylene	1	%	-	-	-	110
Toluene	1	%	-	-	-	110
Xylenes - Total	1	%	-	-	-	110
4-Bromofluorobenzene (surr.)	1	%	-	-	-	51

Client Sample ID			TB	RINSATE
Sample Matrix			Trip Blank (liquid)	Water
Eurofins Sample No.			S25-Au0070766	S25-Au0070767
Date Sampled			Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	< 0.01

Client Sample ID			TB	RINSATE
Sample Matrix			Trip Blank (liquid)	Water
Eurofins Sample No.			S25-Au0070766	S25-Au0070767
Date Sampled			Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit		
Perfluoroalkyl carboxylic acids (PFCAs)				
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	< 0.01
13C4-PFBA (surr.)	1	%	-	90
13C5-PFPeA (surr.)	1	%	-	83
13C5-PFHxA (surr.)	1	%	-	101
13C4-PFHpA (surr.)	1	%	-	115
13C8-PFOA (surr.)	1	%	-	105
13C5-PFNA (surr.)	1	%	-	90
13C6-PFDA (surr.)	1	%	-	87
13C2-PFUnDA (surr.)	1	%	-	90
13C2-PFDoDA (surr.)	1	%	-	84
13C2-PFTeDA (surr.)	1	%	-	61
Perfluoroalkyl sulfonamido substances				
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	< 0.05
13C8-FOSA (surr.)	1	%	-	90
D3-N-MeFOSA (surr.)	1	%	-	96
D5-N-EtFOSA (surr.)	1	%	-	89
D7-N-MeFOSE (surr.)	1	%	-	91
D9-N-EtFOSE (surr.)	1	%	-	82
D5-N-EtFOSAA (surr.)	1	%	-	84
D3-N-MeFOSAA (surr.)	1	%	-	82
Perfluoroalkyl sulfonic acids (PFSAs)				
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01
13C3-PFBS (surr.)	1	%	-	108
18O2-PFHxS (surr.)	1	%	-	94
13C8-PFOS (surr.)	1	%	-	95

Client Sample ID			TB	RINSATE
Sample Matrix			Trip Blank (liquid)	Water
Eurofins Sample No.			S25-Au0070766	S25-Au0070767
Date Sampled			Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit		
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	121
13C2-6:2 FTSA (surr.)	1	%	-	115
13C2-8:2 FTSA (surr.)	1	%	-	105
13C2-10:2 FTSA (surr.)	1	%	-	88
PFASs Summations				
Sum (PFHxS + PFOS)*	0.01	ug/L	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1
Total Recoverable Hydrocarbons				
TRH C6-C9	0.02	mg/L	< 0.02	-
TRH C6-C10	0.02	mg/L	< 0.02	-
TRH C6-C10 less BTEX (F1)[N04]	0.02	mg/L	< 0.02	-
Naphthalene[N02]	0.01	mg/L	< 0.01	-
BTEX				
Benzene	0.001	mg/L	< 0.001	-
Toluene	0.001	mg/L	< 0.001	-
Ethylbenzene	0.001	mg/L	< 0.001	-
m&p-Xylenes	0.002	mg/L	< 0.002	-
o-Xylene	0.001	mg/L	< 0.001	-
Xylenes - Total*	0.003	mg/L	< 0.003	-
4-Bromofluorobenzene (surr.)	1	%	54	-

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Sydney	Aug 26, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Sydney	Aug 26, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Sydney	Aug 26, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Sydney	Aug 26, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Total Recoverable Hydrocarbons - 1999 NEPM Fractions	Sydney	Aug 26, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
Total Recoverable Hydrocarbons	Sydney	Aug 26, 2025	7 Days
- Method: LTM-ORG-2010 TRH C6-C40			
BTEX	Sydney	Aug 26, 2025	14 Days
- Method: LTM-ORG-2010 BTEX and Volatile TRH			

eurofins

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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: KEMPS CREEK
Project ID: 70548

Order No.:
Report #: 1260403
Phone: 02 8245 0300
Fax:

Received: Aug 26, 2025 12:20 PM
Due: Sep 2, 2025
Priority: 5 Day
Contact Name: John De Martin

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	BTEXN and Volatile TRH	Per- and Polyfluoroalkyl Substances (PFASs)	BTEXN and Volatile TRH
Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
External Laboratory									
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**				
1	TP02-0-0.1	Aug 25, 2025		Soil	S25-Au0070712	X		X	
2	TP03-0-0.1	Aug 25, 2025		Soil	S25-Au0070713	X		X	
3	TP04-0-0.1	Aug 25, 2025		Soil	S25-Au0070714	X		X	
4	TP05-0-0.1	Aug 25, 2025		Soil	S25-Au0070715	X		X	
5	TP06-0-0.1	Aug 25, 2025		Soil	S25-Au0070716	X		X	
6	TP11-0-0.1	Aug 25, 2025		Soil	S25-Au0070717	X		X	
7	TP12-0-0.1	Aug 25, 2025		Soil	S25-Au0070718	X		X	
8	TP13-0-0.1	Aug 25, 2025		Soil	S25-Au0070719	X		X	
9	TP14-0-0.1	Aug 25, 2025		Soil	S25-Au0070720	X		X	
10	TP15-0-0.1	Aug 25, 2025		Soil	S25-Au0070721	X		X	
11	TP20-0-0.1	Aug 25, 2025		Soil	S25-Au0070722	X		X	
12	TP21-0-0.1	Aug 25, 2025		Soil	S25-Au0070723	X		X	
13	TP22-0-0.1	Aug 25, 2025		Soil	S25-Au0070724	X		X	
14	TP23-0-0.1	Aug 25, 2025		Soil	S25-Au0070725	X		X	

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
15	TP24-0-0.1	Aug 25, 2025		Soil	S25-Au0070726	X		X	
16	TP28-0-0.1	Aug 25, 2025		Soil	S25-Au0070727	X		X	
17	TP29-0-0.1	Aug 25, 2025		Soil	S25-Au0070728	X		X	
18	TP30-0-0.1	Aug 25, 2025		Soil	S25-Au0070729	X		X	
19	TP31-0-0.1	Aug 25, 2025		Soil	S25-Au0070730	X		X	
20	TP32-0-0.1	Aug 25, 2025		Soil	S25-Au0070731	X		X	
21	TP33-0-0.1	Aug 25, 2025		Soil	S25-Au0070732	X		X	
22	TP233-0-0.1	Aug 25, 2025		Soil	S25-Au0070733	X		X	
23	TP234-0-0.1	Aug 25, 2025		Soil	S25-Au0070734	X		X	
24	TP235-0-0.1	Aug 25, 2025		Soil	S25-Au0070735	X		X	
25	TP236-0-0.1	Aug 25, 2025		Soil	S25-Au0070736	X		X	
26	TP237-0-0.1	Aug 25, 2025		Soil	S25-Au0070737	X		X	
27	TP238-0-0.1	Aug 25, 2025		Soil	S25-Au0070738	X		X	
28	TP07-0-0.1	Aug 26, 2025		Soil	S25-Au0070739	X		X	
29	TP08-0-0.1	Aug 26, 2025		Soil	S25-Au0070740	X		X	
30	TP09-0-0.1	Aug 26, 2025		Soil	S25-Au0070741	X		X	
31	TP16-0-0.1	Aug 26, 2025		Soil	S25-Au0070742	X		X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
32	TP17-0-0.1	Aug 26, 2025		Soil	S25-Au0070743	X		X	
33	TP18-0-0.1	Aug 26, 2025		Soil	S25-Au0070744	X		X	
34	TP25-0-0.1	Aug 26, 2025		Soil	S25-Au0070745	X		X	
35	TP26-0-0.1	Aug 26, 2025		Soil	S25-Au0070746	X		X	
36	TP27-0-0.1	Aug 26, 2025		Soil	S25-Au0070747	X		X	
37	TP34-0-0.1	Aug 26, 2025		Soil	S25-Au0070748	X		X	
38	TP35-0-0.1	Aug 26, 2025		Soil	S25-Au0070749	X		X	
39	TP36-0-0.1	Aug 26, 2025		Soil	S25-Au0070750	X		X	
40	TP239-0-0.1	Aug 26, 2025		Soil	S25-Au0070751	X		X	
41	W01	Aug 25, 2025		Water	S25-Au0070752			X	
42	W02	Aug 25, 2025		Water	S25-Au0070753			X	
43	W03	Aug 25, 2025		Water	S25-Au0070754			X	
44	W04	Aug 26, 2025		Water	S25-Au0070755			X	
45	W05	Aug 26, 2025		Water	S25-Au0070756			X	
46	TP240-0-0.1	Aug 25, 2025		Soil	S25-Au0070757	X		X	
47	QC20250825_P01	Aug 25, 2025		Soil	S25-Au0070758	X		X	

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Sydney Laboratory - NATA # 1261 Site # 18217						X	X	X	X
48	QC20250825_P02	Aug 25, 2025		Soil	S25-Au0070759	X		X	
49	QC20250825_P03	Aug 25, 2025		Soil	S25-Au0070760	X		X	
50	QC20250825_P04	Aug 25, 2025		Soil	S25-Au0070761	X		X	
51	QC20250825_P05	Aug 25, 2025		Soil	S25-Au0070762	X		X	
52	QC20250825_W01	Aug 25, 2025		Water	S25-Au0070763			X	
53	PFAS BLANK	Aug 26, 2025		Water	S25-Au0070764			X	
54	TS	Aug 26, 2025		Trip Spike (liquid)	S25-Au0070765				X
55	TB	Aug 26, 2025		Trip Blank (liquid)	S25-Au0070766		X		
56	RINSATE	Aug 26, 2025		Water	S25-Au0070767			X	
Test Counts						46	1	54	1

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Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.01			0.01	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.01			0.01	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.01			0.01	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.01			0.01	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.05			0.05	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Total Recoverable Hydrocarbons							
TRH C6-C9	mg/L	< 0.02			0.02	Pass	
TRH C6-C10	mg/L	< 0.02			0.02	Pass	
Naphthalene	mg/L	< 0.01			0.01	Pass	
Method Blank							
BTEX							
Benzene	mg/L	< 0.001			0.001	Pass	
Toluene	mg/L	< 0.001			0.001	Pass	
Ethylbenzene	mg/L	< 0.001			0.001	Pass	
m&p-Xylenes	mg/L	< 0.002			0.002	Pass	
o-Xylene	mg/L	< 0.001			0.001	Pass	
Xylenes - Total*	mg/L	< 0.003			0.003	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorooctanoic acid (PFOA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	106			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	117			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	116			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	98			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	105			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	109			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	118			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	129			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	127			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	126			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	120			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	112			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	123			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	141			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	128			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	117			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	130			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	106			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	100			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	97			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	131			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	120			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	112			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	111			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	124			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	130			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	133			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	148			50-150	Pass	
LCS - % Recovery							
Total Recoverable Hydrocarbons							
TRH C6-C9	%	96			70-130	Pass	
TRH C6-C10	%	95			70-130	Pass	
Naphthalene	%	91			70-130	Pass	
LCS - % Recovery							
BTEX							
Benzene	%	105			70-130	Pass	
Toluene	%	109			70-130	Pass	
Ethylbenzene	%	107			70-130	Pass	
m&p-Xylenes	%	114			70-130	Pass	
o-Xylene	%	109			70-130	Pass	
Xylenes - Total*	%	113			70-130	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0070292	NCP	ug/L	1.1	1.9	52	30%	Fail	Q15
Perfluoroheptanoic acid (PFHpA)	S25-Au0070292	NCP	ug/L	< 0.5	0.40	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0070292	NCP	ug/L	0.56	0.49	12	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0070292	NCP	ug/L	< 2.5	< 2.5	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0070292	NCP	ug/L	< 0.5	< 0.5	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	No
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N02	Where we have reported both volatile (P&T GCMS) and semivolatile (GCMS) naphthalene data, results may not be identical. Provided correct sample handling protocols have been followed, any observed differences in results are likely to be due to procedural differences within each methodology. Results determined by both techniques have passed all QAQC acceptance criteria, and are entirely technically valid.
N04	F1 is determined by arithmetically subtracting the "Total BTEX" value from the "C6-C10" value. The "Total BTEX" value is obtained by summing the concentrations of BTEX analytes. The "C6-C10" value is obtained by quantitating against a standard of mixed aromatic/aliphatic analytes.
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Nileshni Goundar	Analytical Services Manager
Raymond Siu	Senior Analyst-Volatile
Roopesh Rangarajan	Senior Analyst-PFAS

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.

Chain of Custody

EUROFINS

JBS&G

PROJECT NO.: 70548	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek	SAMPLERS: Alicia Carruthers
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) jdemartin@jbsg.com.au; (3) acarruthers@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP02-0-0.1	SOIL	25/8		pfas tub + ice		X			
TP03-0-0.1						X			
TP04-0-0.1						X			
TP05-0-0.1						X			
TP06-0-0.1						X			
TP11-0-0.1						X			
TP12-0-0.1						X			
TP13-0-0.1						X			
TP14-0-0.1						X			
TP15-0-0.1						X			
TP20-0-0.1						X			
TP21-0-0.1						X			
TP22-0-0.1						X			
TP23-0-0.1						X			
TP24-0-0.1						X			
TP28-0-0.1						X			
TP29-0-0.1						X			
TP30-0-0.1						X			
TP31-0-0.1						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Alicia Carruthers DATE: 26/08/25	CONSIGNMENT NOTE NO.	NAME: P. Tran	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF: JBS&G	TRANSPORT CO.	DATE: 26/8/25 12:20	COOLER TEMP ..... deg C 5-8°C Chill
NAME: DATE:	CONSIGNMENT NOTE NO.	NAME: DATE:	COOLER SEAL – Yes..... No ..... Intact ..... Broken .....
OF:	TRANSPORT CO	OF:	COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = **Sodium** Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = *Other*

#12360403

Chain of Custody

EUROFINS

PROJECT NO.: 70548	LABORATORY BATCH NO.:
PROJECT NAME: Kemps Creek	SAMPLERS: Alicia Carruthers
DATE NEEDED BY: STD TAT	QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) jo.martin.....@jbsg.com.au; (3) acarruthers...@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	REAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP32-0-0.1	SOIL	25/8		PFAS Hub Ice		X			
TP33-0-0.1						X			
TP233-0-0.1						X			
TP234-0-0.1						X			
TP235-0-0.1						X			
TP236-0-0.1						X			
TP237-0-0.1						X			
TP238-0-0.1						X			
TP07-0-0.1		26/8				X			
TP08-0-0.1						X			
TP09-0-0.1						X			
TP16-0-0.1						X			
TP17-0-0.1						X			
TP18-0-0.1						X			
TP25-0-0.1						X			
TP26-0-0.1						X			
TP27-0-0.1						X			
TP34-0-0.1						X			
TP35-0-0.1						X			

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: DATE: Alicia Carruthers 26/08/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: P. Tran DATE: 26/8/25 12:5 OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5-8°C chill
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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Chain of Custody

JBS&G

EUROFINS

PROJECT NO.: 70548
PROJECT NAME: Kemps Creek
DATE NEEDED BY: STD TAT
LABORATORY BATCH NO.:
SAMPLERS: Alicia Carruthers
QC LEVEL: NEPM (2013)
PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113
SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) jdemartin@jbsg.com.au; (3) acarruthers@jbsg.com.au
COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS	BTEX	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
TP36-0-0.1	SOIL	26/8		pfas tub + ice		X				
TP239-0-0.1	↓	↓		↓		X				
W01	WATER	25/8		pfas bottle + ice		X				
W02	↓	↓		↓		X				
W03		↓				X				
W04		26/8				X				
W05		↓				X				
TP240-0-0.1	SOIL	25/8		pfas tub + ice		X				
QC20250825_P01	SOIL	25/8		pfas tub + ice		X				
QC20250825_P02	↓	↓		↓		X				
QC20250825_P03						X				
QC20250825_P04						X				
QC20250825_P05						X				
QC20250825_W01	WATER	↓		pfas bottle + ice		X				
PFAS BLANK	WATER	26/8		500 ml plastic + ice		X				
TSTB	↓	↓		4x vials + ice			X			
rinsate	↓	↓		pfas bottle + ice		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Alicia Carruthers DATE: 26/08/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 26/8/25 12:00 OF:	COOLER SEAL – Yes..... (No) ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.8°C Chill
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

eurofins | Environment Testing

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+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name: JBS & G Australia (NSW) P/L
Contact name: John De Martin
Project name: KEMPS CREEK
Project ID: 70548
Turnaround time: 5 Day
Date/Time received Aug 26, 2025 12:20 PM
Eurofins reference 1260403

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 5.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✗	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
✗	Split sample sent to requested external lab.
✗	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to John De Martin - jdemartin@jbsg.com.au.

JBS & G Australia (NSW) P/L
Level 8, 179 Elizabeth St
Sydney
NSW 2000

NATA Accredited
Accreditation Number 1261
Site Number 18217

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **John De Martin**

Report **1262660-S**
Project name ADDITIONAL: KEMPS CREEK
Project ID 70548
Received Date Sep 01, 2025

Client Sample ID			**TP03-0-0.1**	**TP06-0-0.1**	**TP09-0-0.1**	**TP13-0-0.1**
Sample Matrix			**Soil**	**Soil**	**Soil**	**Soil**
Eurofins Sample No.			**S25-Se0002285**	**S25-Se0002286**	**S25-Se0002287**	**S25-Se0002288**
Date Sampled			**Aug 25, 2025**	**Aug 25, 2025**	**Aug 26, 2025**	**Aug 25, 2025**
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	24	23	17	32
PFASs Summations						
Sum (PFHxS + PFOS)*	0.1	ug/kg	0.3	< 0.1	0.2	0.3
Sum of PFASs (n=30)*	0.5	ug/kg	0.8	< 0.5	1.8	8.5
Sum of WA DWER PFAS (n=10)*	0.5	ug/kg	0.8	< 0.5	1.8	8.5
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
13C8-FOSA (surr.)	1	%	76	76	82	76
D3-N-MeFOSA (surr.)	1	%	85	80	97	74
D5-N-EtFOSA (surr.)	1	%	80	70	82	73
D7-N-MeFOSE (surr.)	1	%	67	53	60	65
D9-N-EtFOSE (surr.)	1	%	66	52	55	57
D5-N-EtFOSAA (surr.)	1	%	85	71	58	58
D3-N-MeFOSAA (surr.)	1	%	62	48	67	50
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.5	ug/kg	0.5	< 0.5	< 0.5	< 0.5
Perfluoropentanoic acid (PFPeA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorohexanoic acid (PFHxA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroheptanoic acid (PFHpA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorooctanoic acid (PFOA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorononanoic acid (PFNA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorodecanoic acid (PFDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotridecanoic acid (PFTrDA)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroundecanoic acid (PFUnDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorododecanoic acid (PFDoDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			TP03-0-0.1	TP06-0-0.1	TP09-0-0.1	TP13-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002285	S25-Se0002286	S25-Se0002287	S25-Se0002288
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025	Aug 25, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
13C4-PFBA (surr.)	1	%	78	63	79	68
13C5-PFPeA (surr.)	1	%	88	71	85	71
13C5-PFHxA (surr.)	1	%	92	79	100	84
13C4-PFHpA (surr.)	1	%	84	66	83	76
13C8-PFOA (surr.)	1	%	86	60	86	70
13C5-PFNA (surr.)	1	%	75	60	84	72
13C6-PFDA (surr.)	1	%	78	62	77	69
13C2-PFUnDA (surr.)	1	%	88	64	81	69
13C2-PFDoDA (surr.)	1	%	90	68	92	77
13C2-PFTeDA (surr.)	1	%	98	77	103	85
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS)[N11]	0.1	ug/kg	0.3	< 0.1	0.2	0.3
Perfluorodecanesulfonic acid (PFDS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
13C3-PFBS (surr.)	1	%	90	80	108	84
18O2-PFHxS (surr.)	1	%	82	56	87	75
13C8-PFOS (surr.)	1	%	88	71	85	77
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	1.6	8.2
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
13C2-4:2 FTSA (surr.)	1	%	144	60	86	90
13C2-6:2 FTSA (surr.)	1	%	102	79	105	91
13C2-8:2 FTSA (surr.)	1	%	65	84	85	71
13C2-10:2 FTSA (surr.)	1	%	100	86	104	77

Client Sample ID			TP14-0-0.1	TP20-0-0.1	TP25-0-0.1	TP26-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002289	S25-Se0002290	S25-Se0002291	S25-Se0002292
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Sample Properties						
% Moisture	1	%	25	18	28	22
PFASs Summations						
Sum (PFHxS + PFOS)*	0.1	ug/kg	0.2	< 0.1	0.2	< 0.1
Sum of PFASs (n=30)*	0.5	ug/kg	2.1	0.6	< 0.5	< 0.5
Sum of WA DWER PFAS (n=10)*	0.5	ug/kg	2.1	0.6	< 0.5	< 0.5

Client Sample ID			TP14-0-0.1	TP20-0-0.1	TP25-0-0.1	TP26-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002289	S25-Se0002290	S25-Se0002291	S25-Se0002292
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
13C8-FOSA (surr.)	1	%	72	74	69	63
D3-N-MeFOSA (surr.)	1	%	82	77	65	62
D5-N-EtFOSA (surr.)	1	%	85	74	73	66
D7-N-MeFOSE (surr.)	1	%	51	57	54	45
D9-N-EtFOSE (surr.)	1	%	60	60	66	53
D5-N-EtFOSAA (surr.)	1	%	66	65	56	57
D3-N-MeFOSAA (surr.)	1	%	58	63	61	50
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5	< 0.5
Perfluoropentanoic acid (PFPeA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorohexanoic acid (PFHxA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroheptanoic acid (PFHpA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorooctanoic acid (PFOA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorononanoic acid (PFNA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorodecanoic acid (PFDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotridecanoic acid (PFTrDA)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroundecanoic acid (PFUnDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorododecanoic acid (PFDoDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
13C4-PFBA (surr.)	1	%	70	63	67	60
13C5-PFPeA (surr.)	1	%	85	75	71	70
13C5-PFHxA (surr.)	1	%	85	84	92	79
13C4-PFHpA (surr.)	1	%	70	75	72	59
13C8-PFOA (surr.)	1	%	69	77	66	66
13C5-PFNA (surr.)	1	%	63	70	67	56
13C6-PFDA (surr.)	1	%	73	73	68	58
13C2-PFUnDA (surr.)	1	%	74	78	76	67
13C2-PFDoDA (surr.)	1	%	82	72	67	68
13C2-PFTeDA (surr.)	1	%	80	81	76	73
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS)[N11]	0.1	ug/kg	0.2	< 0.1	0.2	< 0.1
Perfluorodecanesulfonic acid (PFDS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
13C3-PFBS (surr.)	1	%	88	83	84	67

Client Sample ID			TP14-0-0.1	TP20-0-0.1	TP25-0-0.1	TP26-0-0.1
Sample Matrix			Soil	Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002289	S25-Se0002290	S25-Se0002291	S25-Se0002292
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025	Aug 26, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
18O2-PFHxS (surr.)	1	%	74	69	65	65
13C8-PFOS (surr.)	1	%	72	77	71	65
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.5	ug/kg	1.9	0.6	< 0.5	< 0.5
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1	< 0.1
13C2-4:2 FTSA (surr.)	1	%	76	77	83	81
13C2-6:2 FTSA (surr.)	1	%	94	96	96	62
13C2-8:2 FTSA (surr.)	1	%	93	77	58	38
13C2-10:2 FTSA (surr.)	1	%	71	111	79	67

Client Sample ID			TP30-0-0.1	TP33-0-0.1	TP36-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002293	S25-Se0002294	S25-Se0002295
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit			
Sample Properties					
% Moisture	1	%	21	27	22
PFASs Summations					
Sum (PFHxS + PFOS)*	0.1	ug/kg	0.2	< 0.1	1.4
Sum of PFASs (n=30)*	0.5	ug/kg	0.9	1.8	3.1
Sum of WA DWER PFAS (n=10)*	0.5	ug/kg	0.9	1.8	3.1
Perfluoroalkyl sulfonamido substances- Trace					
Perfluorooctane sulfonamide (FOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.5	ug/kg	< 0.5	< 0.5	< 0.5
13C8-FOSA (surr.)	1	%	70	102	57
D3-N-MeFOSA (surr.)	1	%	86	134	155
D5-N-EtFOSA (surr.)	1	%	78	127	137
D7-N-MeFOSE (surr.)	1	%	52	152	97
D9-N-EtFOSE (surr.)	1	%	56	161	92
D5-N-EtFOSAA (surr.)	1	%	60	89	76
D3-N-MeFOSAA (surr.)	1	%	56	92	77

Client Sample ID			TP30-0-0.1	TP33-0-0.1	TP36-0-0.1
Sample Matrix			Soil	Soil	Soil
Eurofins Sample No.			S25-Se0002293	S25-Se0002294	S25-Se0002295
Date Sampled			Aug 25, 2025	Aug 25, 2025	Aug 26, 2025
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs) - Trace					
Perfluorobutanoic acid (PFBA)[N11]	0.5	ug/kg	0.7	1.8	< 0.5
Perfluoropentanoic acid (PFPeA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorohexanoic acid (PFHxA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluoroheptanoic acid (PFHpA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorooctanoic acid (PFOA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorononanoic acid (PFNA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorodecanoic acid (PFDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorotridecanoic acid (PFTrDA)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluoroundecanoic acid (PFUnDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorododecanoic acid (PFDoDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
13C4-PFBA (surr.)	1	%	64	115	60
13C5-PFPeA (surr.)	1	%	81	146	70
13C5-PFHxA (surr.)	1	%	83	141	78
13C4-PFHpA (surr.)	1	%	78	143	77
13C8-PFOA (surr.)	1	%	68	118	82
13C5-PFNA (surr.)	1	%	64	105	71
13C6-PFDA (surr.)	1	%	75	113	71
13C2-PFUnDA (surr.)	1	%	74	117	80
13C2-PFDoDA (surr.)	1	%	77	125	72
13C2-PFTeDA (surr.)	1	%	77	122	183
Perfluoroalkyl sulfonic acids (PFSAs)- Trace					
Perfluorobutanesulfonic acid (PFBS)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorononanesulfonic acid (PFNS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.1	ug/kg	< 0.1	< 0.1	0.3
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
Perfluorooctanesulfonic acid (PFOS)[N11]	0.1	ug/kg	0.2	< 0.1	1.1
Perfluorodecanesulfonic acid (PFDS)[N15]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
13C3-PFBS (surr.)	1	%	94	149	72
18O2-PFHxS (surr.)	1	%	76	113	65
13C8-PFOS (surr.)	1	%	70	116	72
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.5	ug/kg	< 0.5	< 0.5	1.7
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.1	ug/kg	< 0.1	< 0.1	< 0.1
13C2-4:2 FTSA (surr.)	1	%	71	INT	110
13C2-6:2 FTSA (surr.)	1	%	92	125	123
13C2-8:2 FTSA (surr.)	1	%	82	102	98
13C2-10:2 FTSA (surr.)	1	%	82	124	116

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
% Moisture	Sydney	Sep 01, 2025	14 Days
- Method: LTM-GEN-7080 Moisture			
Perfluoroalkyl sulfonamido substances- Trace	Sydney	Sep 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl carboxylic acids (PFCAs) - Trace	Sydney	Sep 02, 2025	28 Day
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl sulfonic acids (PFSAs)- Trace	Sydney	Sep 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace	Sydney	Sep 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			

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Company Name: JBS & G Australia (NSW) P/L
Address: Level 8, 179 Elizabeth St
Sydney
NSW 2000

Project Name: ADDITIONAL: KEMPS CREEK
Project ID: 70548

Order No.:
Report #: 1262660
Phone: 02 8245 0300
Fax:

Received: Sep 1, 2025 4:40 PM
Due: Sep 8, 2025
Priority: 5 Day
Contact Name: John De Martin

Eurofins Analytical Services Manager : Andrew Black

Sample Detail						Moisture Set	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Sydney Laboratory - NATA # 1261 Site # 18217						X	X
External Laboratory							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	TP03-0-0.1	Aug 25, 2025		Soil	S25-Se0002285	X	X
2	TP06-0-0.1	Aug 25, 2025		Soil	S25-Se0002286	X	X
3	TP09-0-0.1	Aug 26, 2025		Soil	S25-Se0002287	X	X
4	TP13-0-0.1	Aug 25, 2025		Soil	S25-Se0002288	X	X
5	TP14-0-0.1	Aug 25, 2025		Soil	S25-Se0002289	X	X
6	TP20-0-0.1	Aug 25, 2025		Soil	S25-Se0002290	X	X
7	TP25-0-0.1	Aug 26, 2025		Soil	S25-Se0002291	X	X
8	TP26-0-0.1	Aug 26, 2025		Soil	S25-Se0002292	X	X
9	TP30-0-0.1	Aug 25, 2025		Soil	S25-Se0002293	X	X
10	TP33-0-0.1	Aug 25, 2025		Soil	S25-Se0002294	X	X
11	TP36-0-0.1	Aug 26, 2025		Soil	S25-Se0002295	X	X
Test Counts						11	11

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 0.5			0.5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 0.5			0.5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 0.5			0.5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 0.5			0.5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 0.5			0.5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 0.5			0.5	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	ug/kg	< 0.5			0.5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 0.1			0.1	Pass	
Perfluorohexanoic acid (PFHxA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 0.1			0.1	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 0.5			0.5	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	ug/kg	< 0.5			0.5	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/kg	< 0.5			0.5	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/kg	< 0.5			0.5	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/kg	< 0.5			0.5	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/kg	< 0.5			0.5	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/kg	< 0.5			0.5	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/kg	< 0.5			0.5	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	ug/kg	< 0.5			0.5	Pass	
Perfluoropentanoic acid (PFPeA)	ug/kg	< 0.1			0.1	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanoic acid (PFHxA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanoic acid (PFOA)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanoic acid (PFNA)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanoic acid (PFDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/kg	< 0.1			0.1	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/kg	< 0.1			0.1	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/kg	< 0.1			0.1	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/kg	< 0.1			0.1	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/kg	< 0.1			0.1	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/kg	< 0.1			0.1	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/kg	< 0.1			0.1	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/kg	< 0.1			0.1	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/kg	< 0.1			0.1	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/kg	< 0.5			0.5	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/kg	< 0.1			0.1	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	100			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	99			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	93			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	73			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	115			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	%	78			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	82			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	113			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	97			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	75			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	116			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	86			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	107			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	99			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	76			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	114			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	%	90			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	109			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	133			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	%	108			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	76			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	65			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	89			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	70			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	65			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	66			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	76			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	54			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	85			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances- Trace				Result 1					
Perfluorooctane sulfonamide (FOSA)	S25-Se0001484	NCP	%	78			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Se0001484	NCP	%	73			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Se0001484	NCP	%	123			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Se0001484	NCP	%	123			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Se0001484	NCP	%	115			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Se0001484	NCP	%	79			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Se0001484	NCP	%	107			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1					
Perfluorobutanoic acid (PFBA)	S25-Se0001484	NCP	%	115			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Se0001484	NCP	%	102			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Se0001484	NCP	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Se0001484	NCP	%	120			50-150	Pass	
Perfluorooctanoic acid (PFOA)	S25-Se0001484	NCP	%	65			50-150	Pass	
Perfluorononanoic acid (PFNA)	S25-Se0001484	NCP	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	S25-Se0001484	NCP	%	88			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Se0001484	NCP	%	60			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Se0001484	NCP	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Se0001484	NCP	%	89			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Se0001484	NCP	%	93			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1					
Perfluorobutanesulfonic acid (PFBS)	S25-Se0001484	NCP	%	81			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	S25-Se0001484	NCP	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Se0001484	NCP	%	72			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Se0001484	NCP	%	94			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Se0001484	NCP	%	70			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Se0001484	NCP	%	105			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Se0001484	NCP	%	120			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Se0001484	NCP	%	105			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Se0001484	NCP	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0078425	NCP	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Se0001484	NCP	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Se0001484	NCP	%	117			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Se0002285	CP	%	24	23	5.0	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances- Trace				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD			
Perfluoroundecanoic acid (PFUnDA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Se0001483	NCP	ug/kg	0.5	0.6	1.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Se0001483	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Se0001483	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Sample Properties				Result 1	Result 2	RPD			
% Moisture	S25-Se0002621	NCP	%	4.5	6.6	39	30%	Fail	Q15
Duplicate									
Perfluoroalkyl sulfonamido substances- Trace				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	S25-Au0083372	NCP	ug/kg	0.5	0.8	41	30%	Fail	Q15
Perfluorodecanesulfonic acid (PFDS)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
Duplicate									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace				Result 1	Result 2	RPD			
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	S25-Au0083372	NCP	ug/kg	< 0.5	< 0.5	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	S25-Au0083372	NCP	ug/kg	< 0.1	< 0.1	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).
Q15	The RPD reported passes Eurofins Environment Testing's QC - Acceptance Criteria as defined in the Internal Quality Control Review and Glossary page of this report.

Authorised by:

Adam Bateup	Analytical Services Manager
Roopesh Rangarajan	Senior Analyst-PFAS
Ryan Phillips	Senior Analyst-Sample Properties

Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Outlook

5 DAY TAT ADDITIONAL ANALYSIS: FW: Eurofins Test Results - Report 1260403 : Site KEMPS CREEK (70548)

From Andrew Black <Andrew.Black@eurofinsanz.com>
Date Mon 01/09/2025 4:43 PM
To SH_AU25_Enviro_Sample_NSW <EnviroSampleNSW@eurofinsanz.com>

1 attachment (172 KB)
RE: Eurofins Test Results - Report 1260403 : Site KEMPS CREEK (70548);

Verified Sender: This email is from an internal and/or verified domain which passed security verifications. Remember to still be cautious with personal data and follow company policies.

Andrew Black
Analytical Services Manager

Eurofins | Environment Testing Australia Pty Ltd
1 / 2 Frost Drive
Mayfield West, NSW, 2304
Phone: +61 2 9900 8490
Mobile: +61 410 220 750
Email: Andrew.Black@eurofinsanz.com
Website: eurofins.com.au/environmental-testing
https://www.eurofins-estore.com.au/

Please note my work hours are 8:30am-5:30pm, anything outside of that I will get to the next day. Contact evening shift ASM for anything urgent.

This e-mail including its attachments may contain confidential and proprietary information. Any unauthorized disclosure or use of this e-mail including its attachments is prohibited and may be prosecuted. If you are not the intended recipient, please inform the sender by an e-mail reply and delete the message.
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From: John De Martin <JDeMartin@jbsg.com.au>
Sent: Monday, 1 September 2025 4:40 PM
To: Nileshni Goundar <Nileshni.Goundar@eurofinsanz.com>; Andrew Black <Andrew.Black@eurofinsanz.com>
Cc: Alicia Carruthers <acarruthers@jbsg.com.au>
Subject: RE: Eurofins Test Results - Report 1260403 : Site KEMPS CREEK (70548)

Unverified Sender: The sender of this email has not been verified. Review the content of the message carefully and verify the identity of the sender before acting on this email: replying, opening attachments or clicking links.

Hi Neena,

Could you please organise to have the following samples in Lab Report 1260403 analysed for PFAS (trace) analysis on 5 day TAT:

- TP03-0-0.1;
- TP06-0-0.1;
- TP09-0-0.1;

- TP13-0-0.1;
- TP14-0-0.1;
- TP20-0-0.1;
- TP25-0-0.1;
- TP26-0-0.1;
- TP30-0-0.1;
- TP33-0-0.1; and
- TP36-0-0.1.

Thank you,

John

John De Martin | Senior Principal Consultant | JBS&G
Gadigal Country | **Level 8, 179 Elizabeth Street, Sydney, NSW**
T: 02 8245 0300 | M: 0422 365 233 | E: jdemartin@jbsg.com.au | W: jbsg.com.au | L: Conditions and Limitations

Exceptional Outcomes

From: Nileshni Goundar <EET-ELVIS@eurofinsanz.com>
Sent: Friday, 29 August 2025 8:34 PM
To: John De Martin <JDeMartin@jbsg.com.au>
Cc: Alicia Carruthers <acarruthers@jbsg.com.au>; JBSG Labresults <jbsglabresults@jbsg.com.au>
Subject: Eurofins Test Results - Report 1260403 : Site KEMPS CREEK (70548)

[EXTERNAL EMAIL]** Stop and think before opening attachments, clicking or responding.*

Please find the attached reports.

Kind Regards,
Nileshni (Neena) Goundar
Assistant Analytical Services Manager
*Please note my work hours are **2pm-10pm,** anything outside of that please contact your ASM for anything urgent.*

Eurofins Environment Testing Australia Pty Ltd
179 Magowar Road
Girraween, NSW, 2145

Email: Nileshni.Goundar@eurofinsanz.com
Website: www.eurofins.com.au/environmental-testing

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Site# 2370 & 2554

Sample Receipt Advice

Company name:	JBS & G Australia (NSW) P/L
Contact name:	John De Martin
Project name:	ADDITIONAL: KEMPS CREEK
Project ID:	70548
Turnaround time:	5 Day
Date/Time received	Sep 1, 2025 4:40 PM
Eurofins reference	1262660

Sample Information

✓	A detailed list of analytes logged into our LIMS, is included in the attached summary table.
✓	Sample Temperature of chilled sample on the batch as recorded by Eurofins Sample Receipt : 5.8 degrees Celsius.
✓	All samples have been received as described on the above COC.
✓	COC has been completed correctly.
✓	Attempt to chill was evident.
✓	Appropriately preserved sample containers have been used.
✓	All samples were received in good condition.
✓	Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
✓	Appropriate sample containers have been used.
✓	Sample containers for volatile analysis received with zero headspace.
X	Split sample sent to requested external lab.
X	Some samples have been subcontracted.
N/A	Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Andrew Black on phone : (+61) 2 9900 8490 or by email: Andrew.Black@eurofinsanz.com

Results will be delivered electronically via email to John De Martin - jdemartin@jbsg.com.au.

CERTIFICATE OF ANALYSIS

Work Order	: **ES2526333**	Page	: 1 of 9
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: ALICIA CARRUTHERS	Contact	: Customer Services ES
Address	: LEVEL 1 50 MARGARET STREET SYDNEY NSW, AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 70548 KEMPS CREEK	Date Samples Received	: 26-Aug-2025 12:05
Order number	: 70548	Date Analysis Commenced	: 26-Aug-2025
C-O-C number	: ----	Issue Date	: 29-Aug-2025 12:18
Sampler	: ALICIA CARRUTHERS		
Site	: ----		
Quote number	: EN/000 Custom Quote		
No. of samples received	: 6		
No. of samples analysed	: 6		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results
- Surrogate Control Limits

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- EP231X - Per- and Polyfluoroalkyl Substances (PFAS): Samples received in 20mL or 125mL bottles have been tested in accordance with the QSM5.4 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- EP231: Stable isotope enriched internal standards are added to samples prior to extraction. Target compounds have a direct analogous internal standard with the exception of PFPeS, PFHpA, PFDS, PFTrDA and 10:2 FTS. These compounds use an internal standard that is chemically related and has a retention time close to that of the target compound. The DQO for internal standard response is 50-150% of that established at initial calibration or as per USEPA 1633 limits where listed. PFOS is quantified using a certified, traceable standard consisting of linear and branched PFOS isomers. These practices are in line with recommendations in the National Environmental Management Plan for PFAS and also conform to QSM 5.4 (US DoD) requirements.

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QA20250825_P01	QA20250825_P02	QA20250825_P03	QA20250825_P04	QA20250825_P05
				Sampling date / time	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526333-001	ES2526333-002	ES2526333-003	ES2526333-004	ES2526333-005
					Result	Result	Result	Result	Result
EA055: Moisture Content (Dried @ 105-110°C)									
Moisture Content	----	0.1	%		**24.7**	**29.4**	**43.9**	**24.7**	**38.6**
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.0005	mg/kg		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg		**0.0014**	**0.0005**	**0.0003**	<0.0002	**0.0002**
Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg		<0.001	<0.001	<0.001	<0.001	<0.001
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)			Sample ID	QA20250825_P01	QA20250825_P02	QA20250825_P03	QA20250825_P04	QA20250825_P05
			Sampling date / time	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00
Compound	CAS Number	LOR	Unit	ES2526333-001	ES2526333-002	ES2526333-003	ES2526333-004	ES2526333-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
EP231P: PFAS Sums								
Sum of PFAS	----	0.0002	mg/kg	**0.0014**	**0.0005**	**0.0003**	<0.0002	**0.0002**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.0002	mg/kg	**0.0014**	**0.0005**	**0.0003**	<0.0002	**0.0002**
Sum of PFAS (WA DER List)	----	0.0002	mg/kg	**0.0014**	**0.0005**	**0.0003**	<0.0002	**0.0002**
EP231S: PFAS Surrogate								

Analytical Results

Sub-Matrix: SOIL (Matrix: SOIL)				Sample ID	QA20250825_P01	QA20250825_P02	QA20250825_P03	QA20250825_P04	QA20250825_P05
				Sampling date / time	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00	25-Aug-2025 00:00
Compound	CAS Number	LOR	Unit		ES2526333-001	ES2526333-002	ES2526333-003	ES2526333-004	ES2526333-005
					Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.0002	%		100	96.0	102	102	97.0
13C8-PFOA	----	0.0002	%		105	98.6	101	101	99.6

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	QA20250825_W01	----	----	----	----
				Sampling date / time	25-Aug-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2526333-006	--------	--------	--------	--------
					Result	----	----	----	----
EP231A: Perfluoroalkyl Sulfonic Acids									
Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.02	µg/L		<0.02	----	----	----	----
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L		<0.02	----	----	----	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L		<0.02	----	----	----	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L		<0.01	----	----	----	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L		<0.02	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids									
Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L		<0.1	----	----	----	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L		<0.02	----	----	----	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L		<0.02	----	----	----	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L		<0.02	----	----	----	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L		<0.01	----	----	----	----
Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L		<0.02	----	----	----	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L		<0.02	----	----	----	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L		<0.02	----	----	----	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L		<0.05	----	----	----	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	QA20250825_W01	----	----	----	----
				Sampling date / time	25-Aug-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2526333-006	--------	--------	--------	--------
					Result	----	----	----	----
EP231B: Perfluoroalkyl Carboxylic Acids - Continued									
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.05	µg/L		<0.05	----	----	----	----
EP231C: Perfluoroalkyl Sulfonamides									
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L		<0.02	----	----	----	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L		<0.05	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L		<0.05	----	----	----	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L		<0.02	----	----	----	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L		<0.02	----	----	----	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids									
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L		<0.05	----	----	----	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L		<0.05	----	----	----	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L		<0.05	----	----	----	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L		<0.05	----	----	----	----
EP231P: PFAS Sums									
Sum of PFAS	----	0.01	µg/L		<0.01	----	----	----	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.01	µg/L		<0.01	----	----	----	----
Sum of PFAS (WA DER List)	----	0.01	µg/L		<0.01	----	----	----	----
EP231S: PFAS Surrogate									

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	QA20250825_W01	----	----	----	----
				Sampling date / time	25-Aug-2025 00:00	----	----	----	----
Compound	CAS Number	LOR	Unit		ES2526333-006	--------	--------	--------	--------
					Result	----	----	----	----
EP231S: PFAS Surrogate - Continued									
13C4-PFOS	----	0.02	%		**102**	----	----	----	----
13C8-PFOA	----	0.02	%		**99.9**	----	----	----	----

Surrogate Control Limits

Sub-Matrix: SOIL		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	----	60	120
13C8-PFOA	----	60	120

QUALITY CONTROL REPORT

Work Order	: **ES2526333**	Page	: 1 of 12
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: ALICIA CARRUTHERS	Contact	: Customer Services ES
Address	: LEVEL 1 50 MARGARET STREET SYDNEY NSW, AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
Telephone	: ----	Telephone	: +61-2-8784 8555
Project	: 70548 KEMPS CREEK	Date Samples Received	: 26-Aug-2025
Order number	: 70548	Date Analysis Commenced	: 26-Aug-2025
C-O-C number	: ----	Issue Date	: 29-Aug-2025
Sampler	: ALICIA CARRUTHERS		
Site	: ----		
Quote number	: EN/000 Custom Quote		
No. of samples received	: 6		
No. of samples analysed	: 6		

Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories	*Position*	*Accreditation Category*
Alex Rossi	Organic Chemist	Sydney Organics, Smithfield, NSW
Ankit Joshi	Senior Chemist - Inorganics	Sydney Inorganics, Smithfield, NSW
Franco Lentini	LCMS Coordinator	Sydney Organics, Smithfield, NSW

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key : Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot
CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
LOR = Limit of reporting
RPD = Relative Percentage Difference
# = Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6814597)									
--------		EA055: Moisture Content	----	0.1	%	----	8.6	1.5	0% - 20%
ES2526222-002	Anonymous	EA055: Moisture Content	----	0.1	%	25.5	25.9	1.7	0% - 20%
EA055: Moisture Content (Dried @ 105-110°C) (QC Lot: 6814598)									
ES2526333-002	QA20250825_P02	EA055: Moisture Content	----	0.1	%	29.4	29.7	0.9	0% - 20%
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 6815997)									
ES2526108-001	Anonymous	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	0.0007	0.0008	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0109	0.0100	8.4	0% - 20%
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.0002	mg/kg	0.0003	0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	0.0006	0.0005	0.0	No Limit
		EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2526333-003	QA20250825_P03	EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	0.0003	<0.0002	0.0	No Limit
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 6815997)									

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 6815997) - continued									
ES2526108-001	Anonymous	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
ES2526333-003	QA20250825_P03	EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	<0.001	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 6815997)									
ES2526108-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	0.0005	0.0004	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2526333-003	QA20250825_P03	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit

Sub-Matrix: **SOIL**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 6815997) - continued									
ES2526333-003	QA20250825_P03	EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	<0.0002	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 6815997)									
ES2526108-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
ES2526333-003	QA20250825_P03	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	<0.0005	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 6815730)									
ES2526258-013	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	0.61	0.62	1.7	0% - 20%
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	1.85	1.78	4.1	0% - 20%
		EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	0.04	0.04	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	0.04	0.05	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	0.05	0.05	0.0	No Limit
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
ES2526361-001	Anonymous	EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	<0.01	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231A: Perfluoroalkyl Sulfonic Acids (QC Lot: 6815730) - continued									
ES2526361-001	Anonymous	EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
EP231B: Perfluoroalkyl Carboxylic Acids (QC Lot: 6815730)									
ES2526258-013	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	0.06	0.06	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	0.04	0.04	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	0.11	0.12	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	0.02	0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
ES2526361-001	Anonymous	EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	<0.01	0.0	No Limit
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	<0.1	0.0	No Limit
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 6815730)									
ES2526258-013	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*
EP231C: Perfluoroalkyl Sulfonamides (QC Lot: 6815730) - continued									
ES2526258-013	Anonymous	EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2526361-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	<0.02	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QC Lot: 6815730)									
ES2526258-013	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	0.05	0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
ES2526361-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	<0.05	0.0	No Limit
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	<0.05	0.0	No Limit
EP231P: PFAS Sums (QC Lot: 6815730)									
ES2526258-013	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	2.87	2.83	1.4	0% - 20%
ES2526361-001	Anonymous	EP231X: Sum of PFAS	----	0.01	µg/L	<0.01	<0.01	0.0	No Limit

Sub-Matrix: **WATER**

				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*LOR*	*Unit*	*Original Result*	*Duplicate Result*	*RPD (%)*	*Acceptable RPD (%)*

Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: **SOIL**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 6815997)								
EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.0005	mg/kg	<0.0005	0.00125 mg/kg	108	70.0	130
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.0002	mg/kg	<0.0002	0.00125 mg/kg	95.0	72.0	128
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	97.7	73.0	123
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	88.8	67.0	130
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	84.8	70.0	132
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	93.0	68.0	136
EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.6	70.0	130
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	81.3	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815997)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.001	mg/kg	<0.001	0.00625 mg/kg	101	71.0	135
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	69.0	132
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.9	70.0	132
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	100	71.0	131
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	94.4	69.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	99.9	72.0	129
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.0002	mg/kg	<0.0002	0.00125 mg/kg	105	69.0	133
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	107	64.0	136
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.0002	mg/kg	<0.0002	0.00125 mg/kg	121	69.0	135
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	66.0	139
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	107	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6815997)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	102	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.0005	mg/kg	<0.0005	0.00312 mg/kg	114	71.6	129
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	98.5	69.8	131
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.0005	mg/kg	<0.0005	0.00312 mg/kg	109	68.7	130
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.0005	mg/kg	<0.0005	0.00312 mg/kg	112	65.1	134
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.0002	mg/kg	<0.0002	0.00125 mg/kg	108	63.0	144
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.0002	mg/kg	<0.0002	0.00125 mg/kg	91.6	61.0	139

Sub-Matrix: **SOIL**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 6815997)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	89.5	62.0	145
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.0005	mg/kg	<0.0005	0.00125 mg/kg	92.0	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.0005	mg/kg	<0.0005	0.00125 mg/kg	91.6	65.0	137
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.0005	mg/kg	<0.0005	0.00125 mg/kg	93.7	69.2	143

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 6815730)								
EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.02	µg/L	<0.02	0.25 µg/L	99.7	70.0	130
EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.02	µg/L	<0.02	0.25 µg/L	83.9	72.0	130
EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.02	µg/L	<0.02	0.25 µg/L	88.6	71.0	127
EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.01	µg/L	<0.01	0.25 µg/L	83.6	68.0	131
EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.02	µg/L	<0.02	0.25 µg/L	95.7	69.0	134
EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.01	µg/L	<0.01	0.25 µg/L	89.6	65.0	140
EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.02	µg/L	<0.02	0.25 µg/L	95.9	70.0	130
EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.02	µg/L	<0.02	0.25 µg/L	86.7	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815730)								
EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.1	µg/L	<0.1	1.25 µg/L	85.2	73.0	129
EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.02	µg/L	<0.02	0.25 µg/L	88.6	72.0	129
EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.02	µg/L	<0.02	0.25 µg/L	92.7	72.0	129
EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.02	µg/L	<0.02	0.25 µg/L	90.1	72.0	130
EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.01	µg/L	<0.01	0.25 µg/L	88.6	71.0	133
EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.02	µg/L	<0.02	0.25 µg/L	87.3	69.0	130
EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.02	µg/L	<0.02	0.25 µg/L	82.4	71.0	129
EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.02	µg/L	<0.02	0.25 µg/L	84.5	69.0	133
EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.02	µg/L	<0.02	0.25 µg/L	94.6	72.0	134
EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.02	µg/L	<0.02	0.25 µg/L	86.3	65.0	144
EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.05	µg/L	<0.05	0.625 µg/L	99.2	71.0	132
EP231X: Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.05	µg/L	<0.05	0.25 µg/L	88.2	62.9	136
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6815730)								
EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.02	µg/L	<0.02	0.25 µg/L	94.0	67.0	137
EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.05	µg/L	<0.05	0.625 µg/L	80.8	68.0	141
EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.05	µg/L	<0.05	0.625 µg/L	82.2	62.6	147
EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.05	µg/L	<0.05	0.625 µg/L	99.3	66.0	145

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6815730) - continued								
EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.05	µg/L	<0.05	0.625 µg/L	100	57.6	145
EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.02	µg/L	<0.02	0.25 µg/L	82.8	65.0	136
EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.02	µg/L	<0.02	0.25 µg/L	93.8	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 6815730)								
EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.05	µg/L	<0.05	0.25 µg/L	93.9	63.0	143
EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.05	µg/L	<0.05	0.25 µg/L	98.4	64.0	140
EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.05	µg/L	<0.05	0.25 µg/L	112	67.0	138
EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.05	µg/L	<0.05	0.25 µg/L	83.8	71.4	144

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: **SOIL**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 6815997)							
ES2526108-001	Anonymous	EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.00125 mg/kg	111	70.0	130
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.00125 mg/kg	91.0	72.0	128
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.00125 mg/kg	93.8	73.0	123
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.00125 mg/kg	95.0	67.0	130
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.00125 mg/kg	83.2	70.0	132
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.00125 mg/kg	# Not Determined	68.0	136
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.00125 mg/kg	81.0	70.0	130
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.00125 mg/kg	88.0	59.0	134
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815997)							
ES2526108-001	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	0.00625 mg/kg	102	71.0	135
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.00125 mg/kg	104	69.0	132
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.00125 mg/kg	99.6	70.0	132
		EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.00125 mg/kg	98.4	71.0	131
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.00125 mg/kg	94.6	69.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.00125 mg/kg	100	72.0	129
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.00125 mg/kg	107	69.0	133
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.00125 mg/kg	109	64.0	136

Sub-Matrix: **SOIL**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815997) - continued							
ES2526108-001	Anonymous	EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.00125 mg/kg	118	69.0	135
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.00125 mg/kg	113	66.0	139
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.00312 mg/kg	104	69.0	133
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6815997)							
ES2526108-001	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.00125 mg/kg	86.8	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.00312 mg/kg	106	71.6	129
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.00312 mg/kg	109	69.8	131
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.00312 mg/kg	104	68.7	130
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.00312 mg/kg	109	65.1	134
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.00125 mg/kg	106	63.0	144
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.00125 mg/kg	95.0	61.0	139
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 6815997)							
ES2526108-001	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.00125 mg/kg	96.0	62.0	145
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.00125 mg/kg	97.3	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.00125 mg/kg	97.1	65.0	137
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.00125 mg/kg	108	69.2	143

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP231A: Perfluoroalkyl Sulfonic Acids (QCLot: 6815730)							
ES2526258-014	Anonymous	EP231X: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.25 µg/L	105	70.0	130
		EP231X: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.25 µg/L	90.4	72.0	130
		EP231X: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.25 µg/L	92.8	71.0	127
		EP231X: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.25 µg/L	108	68.0	131
		EP231X: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.25 µg/L	100.0	69.0	134
		EP231X: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.25 µg/L	# Not Determined	65.0	140
		EP231X: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.25 µg/L	92.4	70.0	130
		EP231X: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.25 µg/L	88.2	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815730)							
ES2526258-014	Anonymous	EP231X: Perfluorobutanoic acid (PFBA)	375-22-4	1.25 µg/L	95.1	73.0	129
		EP231X: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.25 µg/L	97.0	72.0	129
		EP231X: Perfluorohexanoic acid (PFHxA)	307-24-4	0.25 µg/L	96.5	72.0	129

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6815730) - continued							
ES2526258-014	Anonymous	EP231X: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.25 µg/L	97.3	72.0	130
		EP231X: Perfluorooctanoic acid (PFOA)	335-67-1	0.25 µg/L	92.0	71.0	133
		EP231X: Perfluorononanoic acid (PFNA)	375-95-1	0.25 µg/L	93.7	69.0	130
		EP231X: Perfluorodecanoic acid (PFDA)	335-76-2	0.25 µg/L	91.7	71.0	129
		EP231X: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.25 µg/L	91.3	69.0	133
		EP231X: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.25 µg/L	106	72.0	134
		EP231X: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.25 µg/L	91.9	65.0	144
		EP231X: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.625 µg/L	84.1	71.0	132
		EP231X: Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.25 µg/L	91.6	62.9	136
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6815730)							
ES2526258-014	Anonymous	EP231X: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.25 µg/L	95.2	67.0	137
		EP231X: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.625 µg/L	93.1	68.0	141
		EP231X: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.625 µg/L	89.8	62.6	147
		EP231X: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.625 µg/L	104	66.0	145
		EP231X: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.625 µg/L	104	57.6	145
		EP231X: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.25 µg/L	85.9	65.0	136
		EP231X: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.25 µg/L	101	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 6815730)							
ES2526258-014	Anonymous	EP231X: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.25 µg/L	96.9	63.0	143
		EP231X: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.25 µg/L	109	64.0	140
		EP231X: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.25 µg/L	109	67.0	138
		EP231X: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.25 µg/L	100	71.4	144

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **ES2526333**	Page	: 1 of 5
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: ALICIA CARRUTHERS	Telephone	: +61-2-8784 8555
Project	: 70548 KEMPS CREEK	Date Samples Received	: 26-Aug-2025
Site	: ----	Issue Date	: 29-Aug-2025
Sampler	: ALICIA CARRUTHERS	No. of samples received	: 6
Order number	: 70548	No. of samples analysed	: 6

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **Matrix Spike outliers exist - please see following pages for full details.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **NO Quality Control Sample Frequency Outliers exist.**

Outliers : Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: **SOIL**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	ES2526108--001	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Matrix: **WATER**

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EP231A: Perfluoroalkyl Sulfonic Acids	ES2526258--014	Anonymous	**Perfluorooctane sulfonic acid (PFOS)**	1763-23-1	Not Determined	----	**MS recovery not determined, background level greater than or equal to 4x spike level.**

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA055: Moisture Content (Dried @ 105-110°C)							
HDPE Soil Jar (EA055)							
QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**----**	----	----	**26-Aug-2025**	08-Sep-2025	✓
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE Soil Jar (EP231X)							
QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	06-Oct-2025	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE Soil Jar (EP231X)							
QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	06-Oct-2025	✓

Matrix: **SOIL**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE Soil Jar (EP231X) QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	06-Oct-2025	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE Soil Jar (EP231X) QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	06-Oct-2025	✓
EP231P: PFAS Sums							
HDPE Soil Jar (EP231X) QA20250825_P01, QA20250825_P02, QA20250825_P03, QA20250825_P04, QA20250825_P05	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	06-Oct-2025	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231A: Perfluoroalkyl Sulfonic Acids							
HDPE (no PTFE) (EP231X) QA20250825_W01	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	21-Feb-2026	✓
EP231B: Perfluoroalkyl Carboxylic Acids							
HDPE (no PTFE) (EP231X) QA20250825_W01	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	21-Feb-2026	✓
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X) QA20250825_W01	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	21-Feb-2026	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X) QA20250825_W01	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	21-Feb-2026	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X) QA20250825_W01	**25-Aug-2025**	**27-Aug-2025**	21-Feb-2026	✓	**28-Aug-2025**	21-Feb-2026	✓

Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: **SOIL**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Moisture Content	EA055	3	23	**13.04**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	14	**14.29**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	14	**7.14**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Matrix: **WATER**

Evaluation: × = Quality Control frequency not within specification ; ✓ = Quality Control frequency within specification.

Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	*Method*	*QC*	*Regular*	***Actual***	***Expected***	*Evaluation*	
Laboratory Duplicates (DUP)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	2	12	**16.67**	**10.00**	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	1	12	**8.33**	**5.00**	✓	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Moisture Content	EA055	SOIL	In house: A gravimetric procedure based on weight loss over a 12 hour drying period at 105-110 degrees C. This method is compliant with NEPM Schedule B(3).
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	SOIL	In-house: Analysis of soils by solvent extraction followed by negative mode LC-ESI-MS/MS using MRM and isotope dilution or internal standard quantitation. A portion of homogenised sample is extracted along with isotope dilution standards (where commercially available) in a solution of ammonium acetate in acetonitrile/methanol. Where relevant, interferences from co-extracted organics are removed using dispersive clean-up media (dSPE). A portion of extract is combined with an equal volume of reagent water and filtered for instrumental analysis.
Per- and Polyfluoroalkyl Substances (PFAS) by LCMSMS	EP231X	WATER	In-house: Analysis of fresh and saline waters by solid phase extraction (SPE) followed by negative mode LC-ESI-MS/MS using MRM and isotope dilution or internal standard quantitation. Isotope dilution standards (where commercially available) and surrogates are added to the sample container. The entire contents are transferred to a weak anion exchange (WAX) solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Data quality objectives for internal standard recoveries are based on US EPA method 1633.

Preparation Methods	Method	Matrix	Method Descriptions
QuECheRS Extraction of Solids	ORG71	SOIL	In house: Sequential extractions with Acetonitrile/Methanol by shaking. Extraction efficiency aided by the addition of salts under acidic conditions. Where relevant, interferences from co-extracted organics are removed with dispersive clean-up media (dSPE). The extract is either diluted or concentrated and exchanged into the analytical solvent.
Solid Phase Extraction (SPE) for PFAS in water	ORG72	WATER	In-house: Isotopically labelled analogues of target analytes used as internal standards and surrogates are added to the sample container. The entire contents are transferred to a solid phase extraction (SPE) cartridge. The sample container is successively rinsed with aliquots of the elution solvent. The eluted extract is combined with an equal volume of reagent water and a portion is filtered for analysis. Method procedures conform to US DoD QSM 5.3, table B-15 requirements.

SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : **ES2526333**

Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Sydney
Contact	: ALICIA CARRUTHERS	Contact	: Customer Services ES
Address	: LEVEL 1 50 MARGARET STREET SYDNEY NSW, AUSTRALIA 2000	Address	: 277-289 Woodpark Road Smithfield NSW Australia 2164
E-mail	: acarruthers@jbsg.com.au	E-mail	: ALSEnviro.Sydney@ALSGlobal.com
Telephone	: ----	Telephone	: +61-2-8784 8555
Facsimile	: ----	Facsimile	: +61-2-8784 8500
Project	: 70548 KEMPS CREEK	Page	: 1 of 3
Order number	: ----	Quote number	: EP2025JBSENV0001 (EN/000 Custom Quote)
C-O-C number	: ----	QC Level	: NEPM 2013 B3 & ALS QC Standard
Site	: ----		
Sampler	: ALICIA CARRUTHERS		

Dates

Date Samples Received	: 26-Aug-2025 12:05	Issue Date	: 26-Aug-2025
Client Requested Due Date	: 02-Sep-2025	Scheduled Reporting Date	: **02-Sep-2025**

Delivery Details

Mode of Delivery	: Carrier	Security Seal	: Intact.
No. of coolers/boxes	: 1	Temperature	: 4.7'C, 4.0'C - Ice present
Receipt Detail	:	No. of samples received / analysed	: 6 / 6

General Comments

- This report contains the following information:
  - Sample Container(s)/Preservation Non-Compliances
  - Summary of Sample(s) and Requested Analysis
  - Proactive Holding Time Report
  - Requested Deliverables
- **Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.**
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal - Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

- **No sample container / preservation non-compliance exists.**

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package.
If no sampling time is provided, the sampling time will default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component

Matrix: **SOIL**

Laboratory sample ID	Sampling date / time	Sample ID	SOIL - EA055-103 Moisture Content	SOIL - EP231 (solids) PFAS - Short Suite (12 analytes)
ES2526333-001	25-Aug-2025 00:00	QA20250825_P01	✓	✓
ES2526333-002	25-Aug-2025 00:00	QA20250825_P02	✓	✓
ES2526333-003	25-Aug-2025 00:00	QA20250825_P03	✓	✓
ES2526333-004	25-Aug-2025 00:00	QA20250825_P04	✓	✓
ES2526333-005	25-Aug-2025 00:00	QA20250825_P05	✓	✓

Matrix: **WATER**

Laboratory sample ID	Sampling date / time	Sample ID	WATER - EP231 PFAS - Short Suite (12 analytes)
ES2526333-006	25-Aug-2025 00:00	QA20250825_W01	✓

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ACCOUNTS PAYABLE

- *AU Certificate of Analysis - NATA (COA)	Email	adminnsw@jbsg.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	adminnsw@jbsg.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	adminnsw@jbsg.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	adminnsw@jbsg.com.au
- A4 - AU Tax Invoice (INV)	Email	invoices@jbsg.com.au
- Chain of Custody (CoC) (COC)	Email	adminnsw@jbsg.com.au
- EDI Format - ESDAT (ESDAT)	Email	adminnsw@jbsg.com.au

ALICIA CARRUTHERS

- *AU Certificate of Analysis - NATA (COA)	Email	acarruthers@jbsg.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	acarruthers@jbsg.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	acarruthers@jbsg.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	acarruthers@jbsg.com.au
- Chain of Custody (CoC) (COC)	Email	acarruthers@jbsg.com.au
- EDI Format - ESDAT (ESDAT)	Email	acarruthers@jbsg.com.au

JOHN DE MARTIN

- *AU Certificate of Analysis - NATA (COA)	Email	jdemartin@jbsg.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	jdemartin@jbsg.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	jdemartin@jbsg.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	jdemartin@jbsg.com.au
- Chain of Custody (CoC) (COC)	Email	jdemartin@jbsg.com.au
- EDI Format - ESDAT (ESDAT)	Email	jdemartin@jbsg.com.au

Chain of Custody

ALS

1 of 1

JBS&G

PROJECT NO.: 70548
PROJECT NAME: Kemps Creek
DATE NEEDED BY: STD TAT

LABORATORY BATCH NO.:
SAMPLERS: Alicia Carruthers
QC LEVEL: NEPM (2013)

PHONE: Sydney 02 8245 0300 | Perth 08 9488 0100 | Brisbane 07 3112 2688 | Melbourne 03 9642 0599 | Adelaide 08 8431 7113

SEND REPORT & INVOICE TO: (1) adminnsw@jbsg.com.au; (2) .jdemartin.....@jbsg.com.au; (3) .acarruthers.....@jbsg.com.au

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	QA20250825_P01	SOIL	25/8		pfas tub + ice		X			
2	QA20250825_P02	↓	↓		↓		X			
3	QA20250825_P03						X			
4	QA20250825_P04						X			
5	QA20250825_P05	↓					X			
6	QA20250825_W01	WATER	↓		pfas bottle + ice		X			

Environmental Division
Sydney
Work Order Reference
ES2526333

Telephone : +61-2-8784 8555

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Alicia Carruthers DATE: 26/08/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: FADU DATE: 26/8/25 12:05pm OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: DATE: OF:	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

Container & Preservative Codes: P = Plastic; J = Soil Jar; B = Glass Bottle; N = Nitric Acid Prsvd.; C = Sodium Hydroxide Prsvd; VC = Hydrochloric Acid Prsvd Vial; VS = Sulfuric Acid Prsvd Vial; S = Sulfuric Acid Prsvd; Z = Zinc Prsvd; E = EDTA Prsvd; ST = Sterile Bottle; O = Other

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A	John De Martin	John De Martin	John De Martin	Draft for client review	10/9/2025
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