Ongoing Monitoring Report – 2025

Bandiana Military Area

Department of Defence

JBS&G | 61395 | 173,499

29 May 2026

JBS&G

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

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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Abbreviations

Term	Definition
AFFF	Aqueous Film Forming Foam
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended in 2013)
BoM	Bureau of Meteorology
CSM	Conceptual Site Model
CSR	Contaminated Site Record
Defence	Department of Defence
DO	Dissolved Oxygen
DQO	Data Quality Objective
DSI	Detailed Site Investigation
EC	Electrical Conductivity
EPA	Environment Protection Authority Victoria
ERS	Environment Reference Standards
HEPA	Heads of Environmental Protection Authorities Australia and New Zealand
HHERA	Human Health and Ecological Risk Assessment
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
NEMP	Heads of EPAs Australia and New Zealand (HEPA), PFAS National Environmental Management Plan – Version 3.0; March 2025
NSW	New South Wales
OMP	Ongoing Monitoring Plan
OMR	Ongoing Monitoring Report
ORP	Oxidation Reduction Potential
PFAS	Per- and poly-fluoroalkyl substances
pH	Potential of Hydrogen
PMAP	PFAS Management Area Plan
PFBS	Perfluorobutanesulfonic acid
PFHxS	Perfluorohexane sulfonate
PFOA	Perflourooctanoic acid
PFOS	Perfluorooctane sulfonate
QA/QC	Quality Assurance / Quality Control
RAP	Remedial Action Plan
SAQP	Sampling, Analysis and Quality Plan
TDS	Total Dissolved Solids
TOC	Top of Casing

Measurements

Term	Definition
°C	Degrees Celsius
cm	Centimetres
m	Metres
mAHD	Metres Australian Height Datum
mbgl	Metres below ground level
mBTOC	Metres below top of case
mg/L	Milligrams per litre
mm	Millimetres
mV	Millivolts
µg/L	Micrograms per Litre
µS/cm	Microsiemens Per Centimetre

Executive Summary

Background

JBS&G Australia Pty Ltd (JBS&G) has been engaged by the Department of Defence (Defence) to complete an Ongoing Monitoring Report (OMR) for per- and poly-fluoroalkyl substances (PFAS) on and around the Bandiana Military Area (the base) and surrounding Management Area. The OMR includes the results of two sampling events that occurred during May and October 2025 and considers historical data. PFAS are a group of synthetic (i.e. 'man-made') compounds widely used around the world since the 1950s to make products that resist heat, stains, grease and water.

Defence has historically stored and used PFAS containing aqueous film forming foam (AFFF) products on-base for firefighting purposes, which has resulted in PFAS contamination on and around the Defence estate. PFAS has historically left the base into off-base areas primarily by surface water runoff in North and South Bandiana and by groundwater flow in East Bandiana.

Objective

The objective of this OMR is to assess and interpret the PFAS data and other information collected for the base to identify and evaluate the following:

- Spatial and temporal (including seasonal) variability of PFAS in the environment;
- Changes to sources, transport pathways and/or receptors;
- Whether risks to human and ecological receptors require review; and
- Whether the identified changes trigger an action and/or review.

Monitoring Scope

The scope of the sampling events discussed in this report consisted of sampling of 55 groundwater wells and 53 surface water locations across the base and surrounding area. All surface water locations and off base monitoring wells are sampled twice yearly. On base monitoring wells are sampled once yearly.

Results Summary

The PFAS results are summarised as follows:

<u>Groundwater</u>

- All groundwater locations were accessible and sampled across both monitoring events, consistent with the SAQP with the exceptions of deviations outlined in the report;
- Groundwater elevations (that is the elevation of groundwater relative to Australian Height Datum) were consistent with those experienced during 2024, with both years experiencing below-average rainfall;
- Groundwater flow directions are consistent with the conceptual understanding of groundwater movement and generally follow the topography; and
- Broadly, groundwater PFAS concentrations were relatively consistent with both historical and recent investigations. It is noted that several locations (primarily within proposed remediation areas) exhibited slight concentration increases.

<u>Surface Water</u>

- All surface water locations were accessible and sampled across both monitoring rounds, consistent with the SAQP with the exceptions of deviations outlined in the report;
- The surface water results were consistent with historical data collected since 2017; and

Risk Summary

- PFAS concentrations were consistent with previous results and there are no changes to the outcomes of the risk assessment completed in 2020; and
- It is noted that the Environment Protection Authority Victoria (EPA) precautionary advice regarding carp consumption from the Kiewa River remains in place.

Conclusions

- The sampling results demonstrated that PFAS concentrations during the 2025 period were consistent with Ongoing Monitoring Plan (OMP) results from 2021 through to 2024, along with results from previous investigations across the base;
- As a result, there is no change in risk to on and off-base receptors and precautionary advice from the EPA should still be followed; and
- Defence has planned remedial works in South and East Bandiana. These efforts are expected to gradually reduce PFAS concentrations on-base and within the Management Area. Remediation of groundwater in East Bandiana will prevent further migration of PFAS impacted groundwater into off-base areas, which is known to be the primary transport pathway in this portion of the base. Remediation of groundwater in South Bandiana will target known Source Areas to reduce PFAS mass, as the low transmissivity nature of the aquifer in this area has prevented widespread migration. Surface water remediation is difficult as it is primary caused by the presence of low level PFAS in surface soils. Defence are trialling a combination of source removal and surface soil treatment, which may have broader applications at the if base if successful.

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) has been engaged by the Department of Defence (Defence) to complete an Ongoing Monitoring Report (OMR) for the Bandiana Military Area (the base) and surrounding Management Area. This OMR includes the findings of two per- and poly-fluoroalkyl substances (PFAS) Ongoing Monitoring Plan (OMP) sampling events that occurred in May and October 2025.

PFAS are a group of synthetic (i.e. 'man-made') compounds widely used around the world since the 1950s to make products that resist heat, stains, grease and water. Defence has historically stored and used PFAS containing aqueous film forming foam (AFFF) products on-base for firefighting purposes, which has resulted in PFAS contamination on and in the vicinity of the Defence estate.

The base is located adjacent to the New South Wales (NSW) - Victorian State border southeast of Wodonga, Victoria. The base itself comprises three areas, the boundaries of which have been provided in **Figure 1, Appendix A**:

- Gaza Ridge Barracks (North Bandiana);
- Gaza Ridge Barracks (South Bandiana); and
- Wadsworth Barracks (East Bandiana).

The Management Area has also been shown in **Figure 1, Appendix A** and comprises the base along with off-base areas including Jack in the Box Creek, Kiewa River and their associated floodplains. The Management Area was derived based on the results of the Detailed Site Investigation (DSI) (Golder 2018)[1] and related to pathways in surface water and groundwater for potential PFAS contamination derived from the base. These pathways were further refined as part of the Detailed Site Investigation Addendum (DSI Addendum) (JBS&G 2024a)[2] and the Mass Flux Study (JBS&G 2024b)[3].

1.1 Background

Previous investigations at the base have identified contamination as a result of the historic AFFF use that contained a number of PFAS as additives. Some PFAS are known to be persistent in the environment and humans. In this instance, investigation has focused on the different PFAS additives known to be in the different AFFF historically used on the base. These include perfluorooctane sulfonate (PFOS), perflourooctanoic acid (PFOA) and perfluorohexane sulfonate (PFHxS). During 2025, perfluorobutanesulfonic acid (PFBS) has also been a focus of the investigation owing to its recent inclusion in regulatory guidance.

Previous investigations have demonstrated that base-derived contamination has migrated off-base and would likely continue to move away from on-base Source Areas without management controls. However, the Human Health and Ecological Risk Assessment (HHERA) (Golder 2020) confirms that the current exposure scenarios, both on and off-base, present low and acceptable risks. Notably, risks flagged in the HHERA as potentially unacceptable are tied to exposure scenarios that are not presently occurring. Defence continue to engage with the community surrounding the base and monitor PFAS concentrations to monitor these

[1] PFAS Detailed Site Investigation, Bandiana Military Area. Document Number 1777738-081-R-RevB. Golder Associates Pty Ltd. 14 September 2018. (Golder 2018).

[2] PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area, Detailed Site Investigation (DSI) Addendum. Document Number 61395/ 146,407 Rev 1. JBS&G Australia Pty Ltd. 14 June 2024. (JBS&G 2024a).

[3] PFAS Mass Flux Study – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/ 153,765 – Rev 0. JBS&G Australia Pty Ltd. 1 November 2024. (JBS&G 2024b).

exposure scenarios. Management measures are also in place to reduce the likelihood of these scenarios occurring, including precautionary advice from the Environment Protect Authority (EPA).

The PFAS Management Area Plan (PMAP) (Defence 2020)[4] has been prepared by Defence. The PMAP sets out management actions to be implemented by Defence to manage potential risks arising from PFAS contamination associated with the base and surrounding areas. One of the management actions in the PMAP is the implementation of the OMP. The OMP sets out a program of monitoring biannually across the base and the Management Area.

The purpose of the OMP, as defined in the PMAP (Defence 2020), is to set out the requirements for collection of adequate data to identify and evaluate:

- Spatial and temporal (including seasonal) variability of PFAS in the environment;
- Changes to PFAS sources, transport pathways and/or receptors for the base and wider Management Area;
- Whether risks to human and ecological receptors require review; and
- Whether the identified changes in PFAS concentrations during the OMP trigger an action and/or review.

This OMR is based on the revised OMP (Defence 2025)[5]. The OMP, in accordance with the scope provided in the PMAP (Defence 2020) commenced at the base in November 2021. Works were initially completed by Cardno Victoria Pty Ltd (now Stantec) between 2021 and mid-2024, after which JBS&G completed monitoring events. From its commencement, the OMP sampling events has been completed twice-yearly.

This OMR summarises sampling events completed by JBS&G in May and October 2025 (known as sampling event 8 and 9 respectively). Previous sampling events from November 2021, May 2022, October 2022, May 2023, October 2023, April 2024 and November/December 2025 (referred to as sampling events 1 through 7) have been documented in the OMR – 2021, 2022, 2023 (JBS&G 2025b) [6] and the OMR – 2024 (JBS&G 2025d)[7], further summarised in **Section 6.3.3**.

1.2 Objectives

The objective of this OMR is to assess and interpret the PFAS data and other information collected for the base to identify and evaluate the following:

- Spatial and temporal (including seasonal) variability of PFAS in the environment;
- Changes to sources, transport pathways and/or receptors;
- Whether risks to human and ecological receptors require review; and
- Whether the identified changes trigger an action and/or review.

1.3 Scope of Work

JBS&G completed the following scope of work as part of this OMR:

- Review of base and environmental setting to provide context to OMP data;

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[4] Bandiana Military Area, PFAS Management Area Plan. Document Number 1777738-153-R-RevA. Department of Defence. November 2020. (Defence 2020).

[5] Bandiana Military Area, PFAS Ongoing Monitoring Plan. Department of Defence. March 2025. (Defence 2025).

[6] Ongoing Monitoring Report – 2021, 2022 and 2023. Document Number 61395/162,111 Rev 0. JBS&G Australia Pty Ltd. 11 March 2025. (JBS&G 2025b).

[7] Ongoing Monitoring Report – 2024. Document Number 61395/165,069 Rev 0. JBS&G Australia Pty Ltd. 9 September 2025. (JBS&G 2025d).

- Review monitoring data from the May 2025 and October 2025 OMP sampling events;
- Analysis of the trends in PFAS concentration across the monitoring period; and
- Completion of this OMR detailing findings to the relevant objectives of the report, particularly whether any changes in risk poses an impact to the surrounding community and identified stakeholders.

2. Base and Environmental Setting

2.1 Base Identification and Setting

A summary of base identification and setting details is provided in **Table 2.1**, with the base boundary provided in **Figure 1, Appendix A**.

Table 2.1: Base Identification and Setting Summary

Item	Details
Site Address	Murray Valley Highway, Bandiana
Site Area	650 hectares
Military Area (Property ID)	0445
Municipality	Wodonga City Council
Current Land Use	Department of Defence base used for administration, accommodation, training, equipment maintenance and storage and warehousing/logistics associated with Defence activities.
Surrounding Land Uses	Land uses surrounding the base are as follows: • **North**: Huon Hill Parklands is located directly north of North Bandiana, while residential developments are located directly north of East and South Bandiana. Commercial properties are also present along Anzac Parade located to the north of South Bandiana. Beyond the parklands is the Murray River and associated floodplain. • **East**: Residential developments are present east of both East and North Bandiana, while commercial properties and open farmland is east of South Bandiana. Beyond this is the Kiewa River and associated floodplain, which also includes pastoral grazing land, which is broken into the Northern, Central and Southern Pastoral Areas (see **Figure 9, Appendix A**). • **South**: Bears Hill is used primarily for grazing and is located directly south of South Bandiana. Commercial properties, open farmland and minor rural residential development is present south of North and East Bandiana. • **West**: Wodonga townships is located directly west of the base and consists primarily of residential properties, with areas of commercial and/or industrial development.
Climate	Long-term climatic data collected from the closest Bureau of Meteorology (BoM) station located at Wodonga (2.7 km north west of base, base ID 082056), indicated the following between 1898 and 2025 (1954-1968 for temperature only): • Annual rainfall is approximately 714 mm; • Highest average monthly rainfall is approximately 80.2 mm, which occurs in July; • Lowest average monthly rainfall is approximately 37.9 mm, which occurs in February; • The highest average maximum daily temperature is 31.8 °C, which occurs in January; and • The lowest average maximum daily temperature is 12.6 °C, which occurs in July. It should be noted that rainfall data from the sampling events and from the sampling period (i.e. May and October 2025) has been discussed in **Section 6.1**.
Topography	The base is part of a relatively low-lying river and creek floodplain located between two topographically significant features (Huon Hill to the north and Bears Hill to the south, as shown on **Figure 1, Appendix A**). There is a topographic divide that runs across the base in a general north-south alignment and is shown in **Figure 3, Appendix A**. To the west of the divide, the area slopes to the northwest towards Jack in the Box Creek, while to the east of the divide, the area slopes to the east or northeast towards the Kiewa River.
Hydrology	As indicated previously, the base and Management Area is divided into two catchments, as shown in **Figure 3, Appendix A**. West of the topographic divide, surface water flows to the

	northwest towards Jack in the Box Creek. East of the divide, surface water flows into Middle Creek and an unnamed creek, both of which ultimately flow into the Kiewa River. Both Jack in the Box Creek and Kiewa River catchments drain north into the Murray River catchment. Many of the surface water channels within the base and Management Area are primarily ephemeral and only have flow during or immediately following rainfall. The Kiewa River is in a low-lying floodplain which is characterised by oxbow lakes to the east of East Bandiana and the Killara residential development. The above identified water bodies are shown in **Figure 3, Appendix A**.
Geology	Based on previous investigations, there are three main geological units present across and base and in the Management Area. From deepest to shallowest these are as follows: • **Omeo-Metamorphic Complex**: Ordovician aged schist with intrusions of granite and gneiss. This material forms the bedrock of the area, with both Bears Hill and Huon Hill consisting of this unit; • **Shepparton Formation**: Tertiary aged deposits of sand, silt and clay. Erosion and accumulation of sediments from the local hill are called the Shepparton Colluvium and can be found through the centre of the base, extending west through the Jack in the Box Creek catchment. Deposition of alluvial sediments also occurred during this period and are called the Shepparton Fluvium. These are primarily found in the northwest and southwest of the base, including through the Killara residential development and the Southern Pastoral Area; and • **Coonambidgal Formation**: Quaternary aged deposits of sand, silt and clay. More recent hill erosion is called the Coonambidgal Colluvium and can be found around the foot of Bears Hill and Huon Hill. Deposition around current waterways, including the Murray River, Kiewa River, Wodonga Creek and Middle Creek, is called the Coonambidgal Fluvium.
Hydrogeology	The upper aquifer below the base and Management Area is primarily located within the Shepparton Fluvium and Colluvium and to a lesser extent the Coonambidgal Fluvium. Depth to groundwater varies and can be summarised as follows: • **South Bandiana**: Across the flatter northern portion of South Bandiana, the depth to groundwater ranges between 10 to 15 m below ground level (mbgl), although this increases up to approximately 40 mbgl in the sloped southern portion (depending on seasonality and weather conditions); • **North Bandiana**: In the north and west of North Bandiana, groundwater depth is up to 13.1 mbgl, while to the south east it is between 3 to 4.7 mbgl; and • **East Bandiana**: The depositional processes that occurred in this area of the base have resulted in a distribution of permeable sediments that is highly variable. The shallow portion (<10 mbgl) of the aquifer includes variably distributed (and discontinuous) sands and clays and has standing water levels ranging between approximately 5.2 and 8.1 mbgl. A more continuous sandy layer is present between 10.0 and 15.0 mbgl and has a standing water level range between approximately 7 and 7.3 mbgl. The sandy layer has an estimated hydraulic conductivity of approximately 10-20 m/day. Groundwater flow direction in the upper aquifer tends to be similar to surface water flow. Below South Bandiana, groundwater flow is primarily to the northwest towards Jack in the Box Creek, while below North and East Bandiana it is primarily to the east towards Kiewa River. Kiewa River, associated oxbows, Wodonga Creek and possibly the northern portion of Jack in the Box Creek are likely gaining streams (i.e. surface water bodies which receive groundwater discharge). Middle Creek and the unnamed creek are considered losing streams (surface water discharges into groundwater). The deeper portion of the aquifer below East Bandiana is likely in direct hydraulic connection with one or more off-base oxbow lakes in the Kiewa River floodplain to the northeast of the base. A review of the registered bore database on Visualising Victoria's Groundwater (VVG 2025) completed as part of this report did not identify registered groundwater bores within the Management Area, with the exception of those used for 'observation' or 'groundwater investigation' purposes. Current registered bores have been provided in **Figure 11, Appendix A**.

2.2 PFAS Source Areas

Investigation completed to date has identified various sources of PFAS across the base relating to use or storage of AFFF products. Source Areas 1 through 15 (see **Figure 2, Appendix A** for locations) are considered the primary sources of PFAS, although varying concentrations of PFAS have been reported for affected media. The Source Areas also relate to different surface water catchments, flowing into Jack in the Box Creek or Kiewa River.

Description of the Source Areas as identified by the DSI (Golder 2018), and their respective Contaminated Site Record (CSR) ID, with PFAS concentrations above laboratory standard limits of reporting, are listed in the following **Table 2.2**.

Table 2.2: Summary of PFAS Source Areas

Source Area (SA) No.	CSR ID	Description of Contaminating Activity	Base Area
SA1	CSR_VIC_000353	Petroleum Platoon - Former Fire Training Ground	South Bandiana
SA2	CSR_VIC_000478	Base Fire Services (BFS) - Former Fire Training Ground	South Bandiana
SA5	CSR_VIC_000365	Petroleum Platoon - Fuel Handling Facility	South Bandiana
SA6	CSR_VIC_000350	Fire Training Area, Building 600[8]	South Bandiana
SA7	CSR_VIC_000357	Old Fire Station, Building 421	South Bandiana
SA9	CSR_VIC_000374	Petroleum, Oils and Lubricants (POL), Building 490	South Bandiana
SA10	CSR_VIC_000479	Former Unit Training Area, between Warehouse 1 and 2	North Bandiana
SA11	CSR_VIC_000480	Fire Extinguisher Disposal - Warehouse 13	North Bandiana
SA12	CSR_VIC_000483	Armoured Vehicle Maintenance Training, Building 100	North Bandiana
SA13	CSR_VIC_000383	Fire Station - Current	East Bandiana
SA14	CSR_VIC_000481	Former Unit Training, Building 592	East Bandiana
SA15	CSR_VIC_000482	Former Unit Training, Football Field	East Bandiana

It should be noted that Defence has completed significant investigation works since the DSI (Golder 2018), including the DSI Addendum (JBS&G 2024a) and the Mass Flux Study (JBS&G 2024b). This has provided further data on PFAS mass in these Source Areas and their contribution measured in surface water and groundwater. This additional work has also further characterised the PFAS plume in groundwater originating from Source Area 13, that is migrating northeast across East Bandiana into off-base areas.

Several Source Areas, including Source Area 1, 6 and 7 on South Bandiana (further discussed in this report), identified concentrations of PFAS in soil which is considered to contribute to PFAS concentrations in surface water. Based on this, these four Source Areas and pathways are the primary focus of Defence, with remediation work planned to reduce PFAS migration levels. All other Source Areas across the base continue to be monitored as part of the OMP program. This will ensure PFAS concentrations continue to present a low risk to on- and off-base users and the environment.

[8] Source Area 6 in previous documentation, including the PMAP (Defence 2020), has been identified as the Current Fire Training Area, Building 600. A new Fire Training Area however has since been constructed and commissioned and the facility located at Source Area 6 retired from active service. This Source Area will therefore just be referred to as the Fire Training Area, Building 600 for the balance of this document.

3. OMP Scope and Sampling

3.1 Overview

This OMR reviews the groundwater and surface water sampling completed in May 2025 and October 2025. Both events were completed as required in the PMAP (Defence 2020) and in accordance with the Sample Analysis Quality Plan[9] (SAQP) (JBS&G 2025e). The SAQP have been provided in **Appendix C**. Exceptions to this have been detailed in **Section 3.4**. OMP work was completed in accordance with the applicable industry standards for a site investigation, with these standards being as follows:

- Australian and New Zealand Guidelines (2018), Australian and New Zealand Guidelines for Fresh and Marine Water Quality;
- Australian and New Zealand (ANZG) (2026), Toxicant default guideline values for aquatic ecosystem protection, PFOS in freshwater – Technical Brief
- Australian Standard AS 4482 (2005) Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soils, Part 1 - Non-volatile and semi-volatile compounds (noting that this standard has been withdrawn, however remains part of the state of knowledge);
- Department of Defence (2021), Contamination Management Manual (DCMM), March 2018, amended June 2021;
- Department of Defence (2019), Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guideline - Routine Water Quality Monitoring;
- Department of Defence (2018), Quality System Manual Schedule B15 USEPA Data Quality Objectives (DQO) Process;
- Environment Protection Authority Victoria (EPA) Victoria (2022), Groundwater Sampling Guidelines, Publication 669.1, February 2022;
- EPA Victoria (2009), Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication IWRG701, June 2009;
- Heads of Environmental Protection Authorities Australia and New Zealand (HEPA) (2025), PFAS National Environmental Management Plan (NEMP) Version 3.0, March 2025;
- National Environment Protection Council (NEPC) (2013), National Environmental Protection (Assessment of Site Contamination) Measure (1999, as amended 2013) (ASC NEPM);
- National Health and Medical Research Council (NHMRC), (2019), Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water, August 2019;
- NHMRC 2025, Per- and poly-fluoroalkyl substances (PFAS), Australian Drinking Water Guidelines, 2011. Version 4.0 updated June 2025;
- Standards Australia (1998), AS/NZ 5667:1998, Water quality – Sampling;
- U.S. Environmental Protection Agency (USEPA), (2006), Guidance for the Data Quality Objectives Process (EPA QA/G-4); and
- USEPA, (2002), Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8).

[9] Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP). Document number 61395/163,009 Rev 2. JBS&G Australia Pty Ltd. 5 September 2025. (JBS&G 2025e).

3.2 OMP Sampling Requirements

3.2.1 OMP Sampling Locations

The OMP sampling requirements are detailed in the PMAP (Defence 2020), with specific sampling locations provided in the OMP (Defence 2025). The following **Table 3.1** provides a list of groundwater and surface water sampling locations which are to be completed during each sampling event, along with the reasoning for the position of each sample location in the context of the overall program and the base. In total, 55 groundwater wells and 53 surface water locations are sampled as part of the OMP although the number of locations and types of media sampled depends on season. Groundwater sample locations are provided in **Figure 4, Appendix A**, while surface water locations are provided in **Figure 5A** and **5B, Appendix A**.

Table 3.1: OMP Sampling Locations as per OMP (Defence 2025)

Catchment	Surface Water (Bi-Annual)	Groundwater		Target Area	Justification
		Annual	Bi-annual		
Jack in the Box Creek	SW302, SW307, SW310	MW315, MW317 MW318	-	South Bandiana, on-base, Source Area 2	Locations target surface water and groundwater within and down-gradient of the Source Area. Also important sample locations to establish sub-catchment concentrations up-gradient of Source Area 1, which is known to significantly contribute to surface water PFAS concentrations.
	SW311, SW313, SW316, SW321	MW304, MW305, MW307, MW311	-	South Bandiana, on-base, Source Area 1	Locations target surface water and groundwater within and down-gradient of the Source Area. SW311 and MW304 are particularly important as they generally represent the off-base discharge into Jack in the Box Creek. MW305 has been included to better define and potentially delineate known groundwater impacts associated with Source Area 1.
	SW322	MW312	-	South Bandiana, on-base	SW322 and MW312 are located where surface water and groundwater discharges off-base into Jack in the Box Creek. SW322 is also at the confluence of surface water drainage from Source Area 1 and 2 and Source Area 5, 6 and 7.
	SW323	-	-	South Bandiana, on-base	This point represents the confluence of drainage from Source Area 5, 6 and 7 prior to discharging off-base.
	SW324, SW326, SW332, SW336	MW051, MW416, MW323	-	South Bandiana, on-base, Source Area 6	Locations target surface water and groundwater discharge from Source Area 6. SW336 is located within the Fire Training Area settling pond, SW324 and SW332 target two different flow paths from the Source Area.
	SW333, SW338	MW329	-	South Bandiana, on-base, Source Area 5	Locations target surface water and groundwater discharge from Source Area 5. SW333 targets discharge to the Jack in the Box Creek catchment, SW338 is the large pond within the Source Area. SW340 targets discharge to the Kiewa River catchment.
Kiewa River	SW340	-	-		
Jack in the Box Creek	SW448	MW319, MW321	-	South Bandiana, on-base, Source Area 7	Locations target surface water and groundwater discharges from Source Area 7.
Kiewa River	SW346, SW349, SW355	MW056	-	South Bandiana, on-base, Source Area 9 and Stormwater Ponds (wetlands)	MW056 targets a perched groundwater layer identified within Source Area 9. Surface water locations are targeting discharge into, within and from the South Bandiana Stormwater Ponds.
	SW370, SW374, SW375	MW342, MW343, MW344, MW345, MW346	-	North Bandiana, on-base, Source Areas 10, 11 and 12	SW370 is within the unnamed creek, targeting contributions from Source Area 10, 11 and 12. MW342 targets Source Area 12. MW345 is within the shallow Shepparton and Coonambidgal Fluvium aquifer where potential groundwater/surface water interactions maybe occurring. SW375 and MW346 is the point of discharge from the base. MW343 and MW344 are installed within the shallow Shepparton Colluvium aquifer and shallow Shepparton and Coonambidgal Fluvium aquifer respectively, down-gradient of Source Area 10 and 11. These wells have been included to assist in calculation of groundwater flow in North Bandiana, and to better define the extent of the PFAS plume from Source Area 12.
	SW379, SW380	MW009, MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW042, MW043, MW046_I, MW046_D, MW052, MW350_S, MW350_D, MW352, MW353, MW354, MW403, MW404	-	East Bandiana, on-base, Source Area 13, 14 and 15	Locations are targeting surface water discharge from Source Area 13. The groundwater locations are targeting the East Bandiana groundwater plume within the shallow, intermediate and deeper Shepparton and Coonambidgal Fluvium horizons of the aquifers, which is emanating from Source Area 13 and discharging off-base across the eastern base boundary.
	SW382, SW387, SW388	MW351	-	East-Bandiana, on-base	Locations are targeting surface water discharge points from East Bandiana into the Kiewa River, and Kiewa River floodplain. MW351 targets the down-gradient boundary adjacent to the residential properties.
Jack in the Box Creek	SW424, SW463	MW302, MW303, MW313	-	Upper Jack in the Box Creek	Locations are targeting publicly accessibly open space land use areas where yabby trapping occurs. The maximum concentrations within Jack in the Box Creek were reported at these locations. MW302 and MW303 have been included to better define and potentially delineate known groundwater impacts associated with Source Area 1. Groundwater monitoring locations MW303 and MW313 are directly adjacent to residential developments, with concentrations assisting in identifying potential human health exposure to adjacent receptors.
	SW427	-	MW360	Lower Jack in the Box Creek	SW427 is located where the creek passes near sensitive land use areas (i.e., a childcare centre) where sensitive receptors such as children could be exposed. MW360 is located within the shallow Shepparton Colluvium aquifer where elevated concentrations and where potential groundwater/surface water interactions maybe occurring.

Catchment	Surface Water (Bi-Annual)	Groundwater		Target Area	Justification
		Annual	Bi-annual		
	SW430	-	MW361		MW361 is located within the shallow Shepparton Colluvium aquifer where elevated concentrations have been reported. SW430 is in proximity to groundwater well MW361 to allow assessment of groundwater/surface water interactions.
	SW431	-	-		SW431 is located where flood diversion structures are located, and if the equipment is used, may result in the release of water from Jack in the Box Creek into Wodonga Creek upgradient of the North East Water abstraction point.
	SW432	-	-		SW432 is located down-gradient of several off-base sources identified during investigations.
	SW434	-	-	Jack in the Box and Wodonga Creek confluence	SW434 is located at the confluence of Jack in the Box Creek and Wodonga Creek and represents the most down-stream point of monitoring within the PFAS Management Area within the Jack in the Box Creek catchment.
Kiewa River	SW409	-	MW447	Unnamed creek	SW409 is located where the creek passes near sensitive land use areas (i.e., Henrika Kuljurgies Reserve and surrounding Killara residential properties) where sensitive receptors such as residents may be present. MW447 has been included to investigate the potential migration of PFAS impacted groundwater into off-base areas.
	SW403, SW405, SW412, SW462	-	MW357	Unnamed creek and Kiewa River oxbows	Locations SW403 and SW405 are ox-bow lakes within the Central Pastoral Area, and SW412 and SW462 are where the creek passes through the Northern and Central Pastoral Areas. The HHERA (Golder 2020) identified potential unacceptable human health risks associated with the consumption of carp from within the unnamed creek. SW462 and MW357 are at the point where the unnamed creek discharges into the Kiewa River.
	SW395, SW396, SW397, SW400, SW401, SW470, SW471, SW487	-	OTH019, MW411, MW412, MW413, MW414, MW415	Kiewa River oxbows	Surface water locations are ox-bow lakes located on the Kiewa River floodplain within the Southern Pastoral Area. SW487 is targeting seepage water, where groundwater seeps were identified on the terrace separating the upper and lower Kiewa River floodplain. OTH019 is a point of use sample, where bore water is used for irrigation of home grown produce and drinking water for chickens. MW411 through MW415 have been included to monitor the known PFAS groundwater plume to the northeast of East Bandiana.
	SW390[1]	-	-	Kiewa River – main channel	SW390 is the Kiewa River background location and represents conditions upstream of the Baranduda Water Treatment Plant and Middle Creek.
	SW393	-	-	Middle Creek	SW393 is located within Middle Creek and represents potential contributions from the Middle Creek catchment. The HHERA (Golder 2020) identified potential unacceptable human health risk associated with the consumption of carp from within the Middle Creek.
	SW398, SW404	-	MW356	Kiewa River – main channel	Locations are located within the Kiewa River main channel and represent conditions down-gradient of the on-base discharges, and where recreational activities commonly occur within the river. MW356 targets the groundwater/surface water interactions with the Kiewa River.
	SW416	-	-		SW416 is located within the main Kiewa River channel at the point of confluence with the unnamed creek. It is also located where recreational activities commonly occur within the river and represents the most down-stream point of monitoring within the PFAS Management Area within the Kiewa River catchment.

Note:

1. SW390 has been incorrectly listed as SW309 in the SAQP.

3.2.2 Groundwater Sample Locations

As detailed previously in **Section 3.2.1**, a total of 55 groundwater monitoring wells are sampled across the base and the Management Area as part of the OMP. As discussed in **Section 2**, multiple geological units are present across the base. In general groundwater wells within the Jack in the Box Creek catchment, on the western side of the base, are within the Shepparton Colluvium, while wells within the Kiewa River catchment, on the eastern side of the base, are within the Shepparton Fluvium and Coonambidgal Fluvium.

OMP wells have been divided into relevant aquifers/screened intervals in **Table 3.2.**

It is noted that OTH019 is groundwater sampled from a private bore off-base. The well however is not directly accessed during OMP sampling events (rather a sample is collected from a tap, the water of which is extracted groundwater that is understood to be held in an above ground storage tank) and the construction details of the well are unknown. As such, this sample location has not been assigned an aquifer and is excluded from **Table 3.2** below.

Table 3.2: OMP Sampled Wells vs. Aquifers

Geological Unit	Aquifer Interval	Aquifer Depth (mbgl)	OMP Wells
Shepparton Colluvium	Shallow 'S'	Variable, based on position on-base. Identified between approximately 5.0 and 42 mbgl	MW051, MW302, MW303, MW304, MW305, MW307, MW311, MW312, MW313, MW315, MW317, MW318, MW319, MW321, MW323, MW329, MW342, MW343, MW360, MW361, MW416
Shepparton Fluvium and Coonambidgal Fluvium	Shallow 'S'	5.0-10.0	MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW043, MW052, MW344, MW345, MW346, MW350_S, MW351, MW352, MW353, MW354, MW356, MW357, MW403, MW404, MW411, MW412, MW413, MW414, MW415, MW447
	Intermediate 'I'	10.0-15.0	MW009, MW042, MW046_I
	Deep 'D'	>15.0	MW046_D, MW350_D
Perched Water	-	Approximately 3.0	MW056

The geological units and the aquifer intervals are discussed throughout the balance of this report, with key outcomes such as results and groundwater flow contours discussed in the context of their respective aquifer.

3.3 Sampling Event Summary

This OMR summarises results from the two OMP sampling events completed in 2025, key details of which are provided in the following **Table 3.3.**

Table 3.3: OMP Sampling Event Summary

Sample Event	Sampling Period	Locations Sampled As Part of Event	Deviations from OMP SAQP[1]	Sampling Event Report
E8	13 to 15 May and 27 to 29 May 2025	10 groundwater sample, 38 surface water sample locations	Yes	Provided in **Appendix E**
E9	13 to 17 October 2025	53 groundwater sample[2] and 34 surface water sample locations	Yes	Provided in **Appendix F**

Note:

1. Deviations from the OMP SAQP have been summarised and discussed in the following section.
2. It is noted that MW056, a regular OMP well, was not sampled during this event. An alternative well (MW406) was mistakenly sampled.

3.4 Deviations from OMP SAQP

Deviations are not uncommon for reasons of weather conditions, access and safety concerns that inhibit the ability to collect some samples at particular locations. The following **Table 3.4** provides a summary of deviations relating to missed samples, along with other deviations relating to the overall work methodology during the reporting period. Commentary has also been provided on the deviations and their influence on the program (if any). Full detail of deviations for each event, as outlined in each of the Sampling Event Reports (SER), has been provided in **Appendix G**.

Table 3.4: Deviations from OMP SAQP Summary

Sample Event	Number of Samples Not Collected Deviations	Work Methodology Deviations	Summary of Deviations and Impact on Program
E8	Groundwater – 1 Surface Water – 15	Groundwater – 0 Surface water – 0	Samples not collected deviations relate to: • Location being dry; and • Damaged monitoring well. For the locations that could not be sampled, results were available from other sample locations further downgradient or in the immediate vicinity, to provide sufficient data for this assessment. The deviations from the SAQP are considered to have a low impact on the overall program.
E9	Groundwater – 3 Surface water – 19	Groundwater – 1 Surface water – 0	Samples not collected deviations relate to: • Location being dry; • Inaccessible sampling location; • Incorrect location sampled; ○ MW056 was not sampled during the monitoring event as a field mistake resulted in a sample being collected from adjacent well MW406 instead. • Insufficient water column to allow for sampling. For the locations that could not be sampled, results were available from other sample locations further downgradient or in the immediate vicinity, to provide sufficient data for this assessment. Work methodology deviations relate to changes to the specified sampling method. The deviations from the SAQP are considered to have a low impact on the overall program.

Overall, the deviations from the SAQP (JBS&G 2025e) do not influence the findings of the overall program. The data set generated as part of the OMP E8 and E9 has assisted in monitoring changes in PFAS concentrations at the base and across the PFAS Management Area. Alongside other PFAS investigations completed at the base such as the DSI Addendum (JBS&G 2024a) and the Mass Flux Study (JBS&G 2024b), a comprehensive Conceptual Site Model (CSM) has been developed which informs the implementation and revision of the PMAP (Defence 2020) risk management actions.

3.5 Sample Analysis

All water samples were submitted to a National Association of Testing Authorities (NATA) accredited laboratories for PFAS analysis, in accordance with the requirements identified in Defence Guidance Document E, Standard PFAS Analytical Suite (Revision 4, 1 October 2021).

All samples were analysed at a standard reporting limit, with the exception of three samples during the May 2025 event and six during the October 2025 event, which were analysed at a lower (i.e. trace) reporting limit. Locations that trace analysis occurred include:

- E8: OTH019, SW416 and SW390.
- E9: MW351, MW352, MW356, OTH019, SW416 and SW390

Trace level analysis was adopted for the above listed sampling locations following consultation and agreement with Defence. These locations adopted lower detection levels based on the following rationale:

- **Groundwater locations:** These four locations represent groundwater conditions which are leaving East Bandiana into the residential area of Killara, including a private groundwater bore which represents a 'point of use'. The lower analysis was adopted in response to National Health and Medical Research Council (NHRMC) releasing finalised health-based drinking water guideline values (see **Section 5**); and
- **Surface water locations:** The North East Water drinking water extraction point is located on Wodonga Creek, upstream from the confluence with Jack in the Box Creek, however downstream from the Kiewa River confluence. The laboratory lower detection limit has been adopted for SW390 and SW416 to identify if PFAS potentially originating from the base is present within the Kiewa River.

4. Quality Assurance and Quality Control

The OMP SAQP (JBS&G 2025e) details Quality Assurance and Quality Control (QA/QC) procedures which were implemented across the two sampling rounds in 2025 to ensure validation of precision and accuracy. The sampling events were planned, undertaken and reported based on the seven step Data Quality Objective (DQO) process outlined in the ASC NEPM. This included data quality indicators and quality assurance and quality control processes that were applied to the conduct of field works undertaken to obtain relevant samples and the data returned from the analytical laboratories for the different media analysed.

An overall data quality review has been completed for each sampling event has been detailed in the SERs provided in **Appendix E** and **Appendix F**.

Based on the review completed, the analytical results are considered representative of the concentrations and parameter readings within the sample media. Overall, the data collected during the two 2025 sampling events is deemed to be suitable for the purposes of the program.

5. Assessment Screening Criteria

As per the SAQP provided in **Appendix C**, the analytical data was screened against relevant tier 1 screening criteria as outlined in the ASC NEPM (2013), PFAS NEMP (HEPA 2025) and ADWG (NHMRC 2025) to assist in assessing for changes in the risk profile as it relates to PFAS at the base.

The Environment Reference Standard (ERS) (Victorian Government 2021) (ERS) requires environmental values of groundwater and surface water to be protected, according to the natural salinity of the groundwater and the geographic region that the base falls into. An evaluation of the environmental values, including relevant water quality and current use, has been provided in Section 8 of the SAQP (see **Appendix C**), which the reader is directed to for further reading. Based on this process, the adopted tier 1 screening criteria has been provided in the following **Table 5.1**.

It should be noted that surface water interacts with groundwater throughout the base and in the immediately surrounding area. As such, from a screening perspective, the applicable groundwater criteria will also be applied to surface water for the purposes of this assessment.

Table 5.1: Adopted PFAS Screening Criteria for OMP – Water

Adopted Tier 1 Screening Criteria	Relevant Environmental Value	PFOS/PFHxS	PFOS	PFHxS	PFOA	PFBS
Freshwater: High conservation/ecological value systems (99% species protection)	Water Dependent Ecosystems and Species	-	0.02 µg/L	-	19 µg/L	-
Freshwater: Slightly to moderately disturbed systems (95% species protection)		-	0.9 µg/L	-	220 µg/L	-
Drinking water	Traditional Owner Cultural Values, Agriculture and Irrigation (Irrigation and stock watering)	-	0.008 µg/L	0.03 µg/L	0.2 µg/L	1.0 µg/L
Recreational water	Water-based Recreation (Primary Contact Recreation, Secondary Contact, Aesthetic Enjoyment)	2 µg/L	-	-	10 µg/L	-

Note: PFOS – perfluorooctanesulfonic acid, PFHxS – perfluorohexanesulfonic acid, PFOA – perfluorooctanoic acid, and PFBS – perfluorobutane sulfonic acid.

HEPA 2025 has adopted trigger values or species protection levels for toxicants, which provide guidance for assessment of aquatic ecosystems. Percent species protection levels range from 80% (highly disturbed systems) to 99% (largely unmodified systems). The water bodies on and surrounding the base range in ecosystem disturbance and modification, and as such different protection levels apply. The following is a general guide and justification for adopted species protection based on water feature:

- **On-base constructed stormwater channels, swales or pipework:** No species protection, as protection of environmental values in artificial stormwater drains is not a requirement;
- **On-base stormwater pond, dam or depression**: 95% species protection adopted as vegetation is generally present in and around the moderately to highly modified feature which supports a freshwater ecosystem; and
- **On and off-base water bodies (i.e. rivers, creeks, lakes and wetlands)**: 99% species protection adopted.

For the purposes of this report and as advised in HEPA (2025), all results have been compared to 99% species protection as all waters samples have the potential to migrate into on and off-base creeks, lakes, wetlands and retention basins, and the NEMP recommends the adoption of this criteria owing to bioaccumulation and biomagnification in wildlife. The screening criteria for 95% species protection have been provided for reference regarding on-base stormwater ponds, dams or depressions. It is noted that the laboratory limit of reporting (LOR) is above the 99% species protection criteria at some sampling locations, in which case the LOR itself will be the criteria.

In the absence of a published guideline value for irrigation and stock watering, the drinking water values have been considered as an initial screening value, as is consistent with the Human Health an Ecological Risk Assessment (HHERA) (Golder 2020).

No criteria have been adopted for the environmental values Potable Mineral Water Supply, Industrial and Commercial and Geothermal Properties, as these uses are considered unlikely to be realised within the Management Area. No criteria have been adopted for the environmental value Buildings and Structures as no PFAS criteria have been developed for this scenario and not known to affect the integrity of structures.

6. Monitoring Data Summary

The following sections detail the rainfall, groundwater and surface water monitoring data collected during the two 2025 OMP sampling events.

All data has been extracted from the SERs, full copies of which have been provided in **Appendix E** and **Appendix F**.

6.1 Rainfall

6.1.1 Rainfall During OMR Period (2025)

As noted in **Table 2.1**, the average annual rainfall at Wodonga (weather station 082056, approximately 2.7 km to the northwest) is approximately 714 mm. The total annual rainfall experienced during 2025 was 578.1 mm. **Plate 1** plots the monthly rainfall in 2025 against the long-term monthly averages (available data from 1898 to 2025). No rainfall data was available for March 2025.

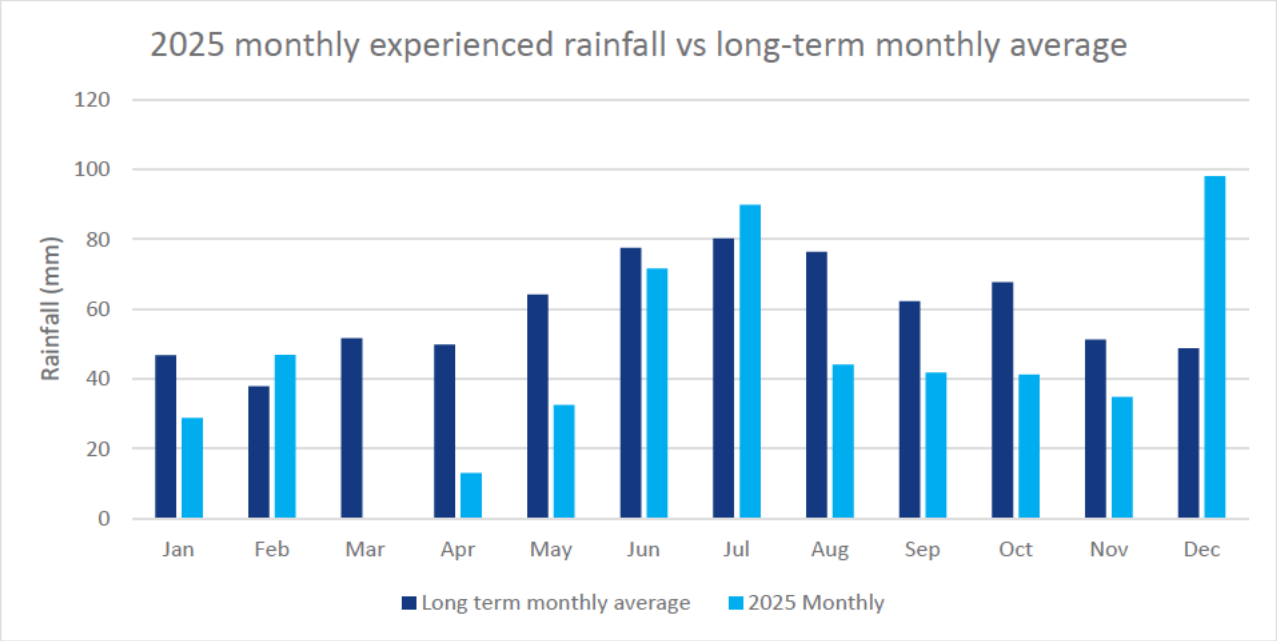

Plate 1: Monthly rainfall experienced vs long term monthly averages

As shown above, with the exception of February, July and December the year 2025 recorded below-average rainfall. Both sampling events completed in May and October 2025 took place during below-average rainfall conditions. Further details are provided in the following **Section 6.1.2**.

For context, yearly total rainfalls from previous OMP sampling periods are as follows: 2021 – 832.9 mm, 2022 – 1,140.9 mm, 2023 – 779.6 mm and 2024 – 568.5 mm. Further information can be found in previous reports OMR – 2021, 2022 and 2023 (JBS&G 2025b) and OMR – 2024 (JBS&G 2025d) which has also been summarised in **Section 7**. Furthermore, the average rainfall for the years that OMP sampling events have occurred is 763 mm, which is slightly above the average long-term yearly average. Previous yearly averages and the long-term average are important to reference to provide context to long-term (i.e. across the OMP program) and short-term (i.e. individual sampling events) observations and analytical result trends.

6.1.2 Rainfall During Individual Sampling Events

The PMAP (Defence 2020) recommends that OMP surface water sampling is completed after a reasonable rain event if possible (defined as 35 mm of rain over a 4-day period), as many of the water bodies targeted

by the OMP are ephemeral. **Table 6.1** below details rainfall occurrence in the region immediately prior to and during the OMP sampling events.

Table 6.1: Rainfall During Sampling Events

Sample Event	Surface Water Sampling	Rainfall Measurements from Closest Weather Station during Sample Event[1]
E8	13 to 15 May 2025 and 27 to 29 May 2025	No rain was recorded in the seven days prior to the initial mobilisation for the May 2025 sampling event. Although, 26.0 mm was recorded between 23 and 24 May, and 6.5 mm was recorded between 27 and 28 May.
E9	13 to 17 October 2025	3.6 mm of rain was recorded in the seven days prior to the mobilisation for the October 2025 sampling event. No rain was recorded during the sampling event itself.

Notes:

1. Rainfall measurements were recorded at the Wodonga weather station (ID: 082056), the closest BoM station to the base (approximately 2.7 km to the north west).

It is acknowledged that neither sampling event was completed following a 'reasonable rain event', although it is noted that rainfall conditions which meet this definition were not encountered for the entire months of May and October. The lack of rainfall, coupled with the difficulty with predicting weather and immediate mobilisation to base for sample collection, contributed to surface water sampling locations being dry and not sampled during the 2025 sample events.

6.2 Groundwater

6.2.1 Groundwater Elevations and Flow Direction

Groundwater elevation contour plots based on reduced groundwater levels measured during the two sampling events are presented in **Figure 6A** and **6B, Appendix A**. Groundwater flow direction remains relatively consistent across the monitoring period and is also consistent with the expected directions as described in **Table 2.1**. It is noted that due to the limited number of monitoring wells gauged as part of the May 2025 sampling event, contours could only be plotted for the Shepparton and Coonambigdal Fluvium – Shallow Aquifer for this event. Groundwater elevations and observations by aquifer interval for each monitoring round have been summarised in the following **Table 6.2.**

Groundwater elevation measured in the shallow, intermediate and deep wells installed in the Shepparton and Coonambidgal Fluvium aquifer in East Bandiana had comparable groundwater elevations. This demonstrates interconnectivity between the different well intervals. This confirms the observations from groundwater gauging undertaken as part of the DSI Addendum investigation (JBS&G 2024a), the OMR – 2021, 2022 and 2023 (JBS&G 2025b) and the OMR – 2024 (JBS&G 2025d).

As detailed in **Section 6.1**, 2025 was a below-average rainfall period, and both OMP sampling events occurred during months of lower-than-average rainfall. The majority of wells gauged as part of the OMP showed similar standing water levels between the two events, noting that the full monitoring well network is only sampled annually as outlined in the OMP SAQP (JBS&G 2025e).

Table 6.2: Summary of Groundwater Elevation and Flow Direction

Geological Unit	Well Depth	Monitoring Areas	Groundwater Flow Direction	E8 Elevation Range (m AHD)	E9 Elevation Range (m AHD)	Monitoring Notes
Shepparton Colluvium	Shallow	South Bandiana, North Bandiana	West and northwest towards Jack in the Box Creek	151.257 (MW361) to 156.409 (MW360)	151.238 (MW361) to 166.750 (MW342)	–
Shepparton and Coonambidgal Fluvium	Shallow	North Bandiana, East Bandiana	East and northeast towards the Kiewa River	152.734 (MW357) to 160.081 (MW447)	153.565 (MW357) to 165.832 (MW344)	–
Shepparton and Coonambidgal Fluvium	Intermediate	East Bandiana	Northeast towards the Kiewa River	Not monitored	158.409 (MW046_I) to 163.662 (MW009)	No intermediate wells sampled in May 2025
Shepparton and Coonambidgal Fluvium	Deep	North Bandiana, East Bandiana	Northeast towards the Kiewa River	Not monitored	157.855 (MW046_D) to 159.362 (MW350_D)	Insufficient wells for contouring. Flow direction inferred from DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b).

6.2.2 Groundwater Physiochemical Field Parameters

An overview of field parameters recorded in groundwater as part of the 2025 monitoring is summarised in **Table 6.3.** Parameter ranges have been provided in detail in **Appendix H**, and those for each sampling event are provided in **Appendix E** and **Appendix F.**

Table 6.3: Overview of Recorded Groundwater Field Parameters

Aquifer	On-base	Off-base
Shepparton Colluvium Shallow	• pH: Slightly acidic to neutral. • DO: Hypoxic to good aerobic conditions. • EC: Freshwater to saline water. • ORP: Anaerobic to oxidising conditions.	• pH: Slightly acidic to moderately alkaline. • DO: Hypoxic to excellent aerobic conditions. • EC: Freshwater to saline water. • ORP: Anaerobic to moderately reducing conditions.
Shepparton and Coonambidgal Fluvium Shallow	• pH: Slightly acidic to neutral. • DO: Hypoxic to good aerobic conditions. • EC: Freshwater to saline water. • ORP: Anaerobic to oxidising conditions.	• pH: Slightly acidic to neutral. • DO: Hypoxic to poor aerobic conditions. • EC: Freshwater to brackish water. • ORP: Anaerobic to oxidising conditions.
Shepparton and Coonambidgal Fluvium Intermediate	• pH: Slightly acidic. • DO: Hypoxic to poor aerobic conditions. • EC: Freshwater. • ORP: Moderately reducing conditions.	• Aquifer not monitored off-base.
Shepparton and Coonambidgal Fluvium Deep	• pH: Slightly acidic to neutral. • DO: Poor aerobic conditions. • EC: Freshwater. • ORP: Moderately reducing conditions.	• Aquifer not monitored off-base.

Notes:

1. pH = potential of hydrogen, DO = dissolved oxygen, EC = electrical conductivity, ORP = oxidating reduction potential

6.2.3 Laboratory Results

Groundwater analytical results from both 2025 sampling events have been compared to relevant criteria and tabulated in **Table B1, Appendix B** appended to this report, while a summary has been provided in the following **Table 6.4.**

A discussion of the results in the context of the overall program has been provided in **Section 8.** A detailed interpretation of the results has been provided in **Appendix J.**

Table 6.4: Summary of Groundwater Analytical Results Exceedances

Analyte	Conc. Range (µg/L)	Summary of Groundwater Analytical Results
Shepparton Colluvium – Shallow – On-base (18 wells)		
PFBS	LOR to 30	• Concentrations at MW307 and MW321 were reported above the NHMRC 2025 Drinking Water criterion in the October sampling event.
PFOS	0.51 to 540	• Concentration at all locations in the October sampling event were reported above the ANZG 2026 Freshwater (99% Protection) criterion with the exception of MW305 and MW323 although it is acknowledged that concentrations at MW302 and MW303 were below the LOR.

Analyte	Conc. Range (µg/L)	Summary of Groundwater Analytical Results
		• Concentration at MW051, MW307, MW321, MW342 and MW317 in the October sampling event were reported above the ANZG 2026 Freshwater (95% Protection) criterion; • Concentration at all locations in the October sampling event were reported above the NHMRC 2025 Drinking Water criterion although it is acknowledged that concentrations at MW302 and MW303 were below the LOR; and • Concentration at MW051, MW307, MW321 and MW342 in the October sampling event were reported above the PFAS NEMP 2025 Recreational criterion.
PFOA	LOR to 10.0	• Concentrations at MW307, MW321 and MW342 in the October sampling event were reported above the NHMRC 2025 Drinking Water criterion.
Sum of PFOS and PFHxS	0.87 to 109	• Concentrations at MW051, MW307, MW321 and MW342 in the October sampling event were reported above the PFAS NEMP 2025 Recreational Water criterion.
Shepparton and Coonambidgal Fluvium – Shallow – On-base (19 wells)		
PFBS	LOR to 8.1	• Concentrations at MW035, MW415, MW350_S, MW403 and MW404 were reported above the NHMRC 2025 Drinking Water criterion during the October sampling event.
PFOS	LOR to 54.0	• Concentration at all locations except MW344 and MW346 were reported above the ANZG 2026 Freshwater (99% Protection) criterion in one or both sampling events. • Concentration at all locations except for MW012, MW018, MW029, MW344, MW345, MW346 and MW413 were reported above the ANZG 2026 Freshwater (95% Protection) criterion in one or both sampling events. • Concentration at all locations were reported above the NHMRC 2025 Drinking Water criterion during the October sampling event • Concentrations at MW034, MW020, MW412, MW052, MW412, MW415, MW415, MW035, MW016, MW043, MW403 and MW404 were reported above the PFAS NEMP 2025 Recreational criterion in one or both sampling events.
PFOA	LOR to 4.5	• Concentrations at MW052, MW016, MW415, MW415, MW043, MW035, MW403, MW404 were reported above the PFAS NEMP 2025 Drinking Water criterion in one or both sampling events.
Sum of PFOS and PFHxS	0.01 to 109	• Concentrations at MW411, MW414, MW034, MW412, MW020, MW412, MW052, MW415, MW415, MW016, MW035, MW043, MW403 and MW404 were reported above the PFAS NEMP 2025 Recreational Water criterion in one or both sampling events.
Shepparton and Coonambidgal Fluvium – Intermediate – On-base (3 wells)		
PFBS	0.08 to 0.70	• No criterion exceedances were identified for PFBS during either sampling event.
PFOS	2.6 to 5.6	• Concentration at all locations were reported above the ANZG 2026 Freshwater (99% and 95% Protection) criterion in the October sampling event; • Concentrations at all locations were reported above the NHMRC 2025 Drinking Water criterion in the October sampling event; and • Concentrations at all locations were reported above the PFAS NEMP 2025 Recreational criterion in the October sampling event.
PFOA	0.06 to 0.44	• Concentrations at MW042 and MW009 were reported above the NHMRC 2025 Drinking Water criterion during the October sampling event.
Sum of PFOS and PFHxS	3.9 to 11.2	• Concentration in all three wells were reported above the PFAS NEMP 2020 Recreational Water criterion in the October sampling event.

Analyte	Conc. Range (µg/L)	Summary of Groundwater Analytical Results
Shepparton and Coonambidgal Fluvium – Deep – On-base (2 wells)		
PFBS	0.09	• No criterion exceedances were identified for PFBS during the October sampling event.
PFOS	0.57 to 2.4	• Concentrations at all locations were reported above the ANZG 2026 Freshwater (99% Protection) criterion in the October sampling event; • Concentrations at MW046 were reported above the ANZG 2026 Freshwater (95% Protection) criterion in the October sampling event; • Concentrations at all locations were reported above the NHMRC 2025 Drinking Water criterion in the October sampling event; and • Concentrations at MW046_D were reported above the PFAS NEMP 2025 Recreational criterion in the October sampling event.
PFOA	0.02 to 0.06	• No criterion exceedances were identified for PFOA in the October sampling event.
Sum of PFOS and PFHxS	0.9 to 3.7	• Concentrations at MW046_D were reported above the PFAS NEMP 2025 Recreational criterion in the October sampling event.
Shepparton Colluvium – Shallow – Off-base (2 wells)		
PFBS	LOR to 0.01	• No criterion exceedances were identified for PFBS in the October sampling event.
PFOS	0.10 to 0.27	• Concentrations at all locations were reported above the ANZG 2026 Freshwater (99% Protection) criterion in both sampling events; • Concentrations at all locations in all sampling events were reported above the NHMRC 2025 Drinking Water criterion in the October sampling event.
PFOA	LOR to 0.03	• No criterion exceedances were identified for PFOA in either sampling event.
Sum of PFOS and PFHxS	0.26 to 0.38	• No criterion exceedances were identified for Sum of PFOS and PFHxS in either sampling event.
Shepparton and Coonambidgal Fluvium – Shallow – Off-base (9 wells)		
PFBS	LOR to 0.02	• No criterion exceedances were identified for PFBS in both sampling events.
PFOS	LOR to 0.21	• Concentrations at all locations except MW356 and MW357 were reported above the ANZG 2026 Freshwater (99% Protection) criterion in both sampling events. It is acknowledged that concentrations at MW356 is below the LOR; • Concentrations at all locations except MW356 and MW354 exceeded the NHMRC 2025 Drinking Water criterion during one or both sampling events.
PFOA	LOR to 0.004	• No criterion exceedances were identified for PFOA in either sampling event.
Sum of PFOS and PFHxS	LOR to 0.35	• No criterion exceedances were identified for sum of PFOS and PFHxS in either sampling event.

Notes:

1. LOR = Limit of Reporting
2. It is acknowledged that the LOR adopted for this investigation exceeds the NHMRC 2025 Drinking Water Criterion for PFOS. A less than LOR result has been considered an exceedance, as discussed in Section 5, with the potential risk from the result assessed in the context of the HHERA (Golder 2020).

6.2.4 Trend Analysis

As outlined in the OMP SAQP (JBS&G 2025e), a Mann–Kendall trend analysis was undertaken using ESdat for each groundwater monitoring location with a sufficient number of data points (generally ≥ 3 sampling events). It is acknowledged that while ESdat only requires a minimum of three data points to determine a

Mann-Kendall trend, at least 8-10 results is preferred (ITRC 2013)[10]. Of the 55 groundwater monitoring locations, 31 have at least eight data points, while 42 have 3 or greater.

The 14 locations for which no Mann-Kendall analysis was able to be undertaken (where data points were <3) are: MW302, MW303, MW305, MW317, MW328, MW343, MW344, MW406 (mistakenly sampled during October 2025 monitoring event), MW411, MW412, MW413, MW414, MW415 and MW447. The results from these locations are discussed further in **Appendix J**.

All available data from historical OMP monitoring rounds was used during the trend analysis. A tabulated summary of the results showing the trend has been provided in the following **Table 6.5**, while graphical outputs are presented in **Table J1** in **Appendix J**. It is noted that monitoring wells by aquifer has been documented in **Table 3.2**. Graphical outputs have been displayed using a logarithmic y-axis to increase readability of the plots when comparing monitoring locations within the same formations but with concentrations orders of magnitude different. Non-detect results have not been plotted and are represented by a vertical line on the preceding and following detections above the LOR.

[10] Interstate Technology Council (IRTC), 2013. Groundwater Statistics for Monitoring and Compliance. URL: https://projects.itrcweb.org/gsmc1/Default.htm#GW%20Stats/5%20Methods%20in%20indiv%20Topics/5%205%20Trend%20Tests.htm. Accessed on 13 January 2026.

Table 6.5: Summary of Mann-Kendall Analysis

Aquifer	Target Area	Source Area	PFBS	PFHxS	PFOS	PFOA
Shepparton and Coonambidgal Fluvium - Shallow Aquifer (27 wells)	On-base, North and East Bandiana; Off-base, Kiewa River Catchment	Source Areas 10 through 15	No trend (17) Trending down (1) Trending up (2)	No trend (16) Trending up (4)	No trend (17) Trending up (3)	No trend (17) Trending down (1) Trending up (2)
Shepparton and Coonambidgal Fluvium - Intermediate Aquifer (3 wells)	On-base, East Bandiana	Source Area 14	No trend (1) Trending down (2)	No trend (3)	No trend (3)	No trend (2) Trending down (1)
Shepparton and Coonambidgal Fluvium - Deep Aquifer (2 wells)	On-base, East Bandiana	Source Area 13	No trend (1) Trending down (1)	No trend (1) Trending up (1)	No trend (1) Trending up (1)	No trend (2)
Shepparton Colluvium - Shallow Aquifer (22 wells)	On-base, South Bandiana; Off-base, Jack in the Box Creek Catchment	Source Areas 1 through 7	No trend (15)	No trend (12) Trending down (1) Trending up (2)	No trend (10) Trending down (2) Trending up (3)	No trend (13) Trending up (2)
Shepparton and Coonambidgal Fluvium (OTH019)	Off-base, Kiewa River Catchment	-	Trending up (1)	Trending up (1)	Trending up (1)	Trending up (1)
Shepparton Colluvium – Perched (MW056)	On-base, South Bandiana	Source Area 9	No trend (1)	No trend (1)	No trend (1)	No trend (1)

Note: (X) denotes the number of monitoring locations

Further discussion of the groundwater trend results, particularly those wells which show trending up relationships, has been provided in **Section 8** and **Appendix J.** These trends have been discussed in the context of the conceptual understanding of the base and Management Area, along with the current and proposed risk management measures.

6.3 Surface Water

6.3.1 Surface Water Quality Field Parameters

An overview of field parameters recorded in surface water as part of the 2025 monitoring is summarised in **Table 6.6**. Parameter ranges have been provided in detail in **Appendix H**, while parameter tables for each sampling event are provided in **Appendix E** and **Appendix F**.

Table 6.6: Overview of Recorded Surface Water Field Parameters

Media	On-base	Off-base
Surface Water	• pH: Moderately acidic to moderately alkaline. • DO: Hypoxic to excellent aerobic conditions. • EC: Freshwater. • ORP: Moderately oxidising to highly oxidising conditions.	• pH: Moderately acidic to moderately alkaline • DO: Hypoxic to excellent aerobic conditions. • EC: Freshwater. • ORP: Anaerobic to oxidising conditions.

Notes:

1. pH = potential of hydrogen, DO = dissolved oxygen, EC = electrical conductivity, ORP = oxidating reduction potential

6.3.2 Laboratory Results

Surface water analytical results for both 2025 sampling events have been compared to relevant criteria tabulated and summarised in **Table B2, Appendix B** appended to this report and is summarised in the following **Table 6.7.**

A discussion of the results in the context of the overall program has been provided in **Section 8**. A detailed interpretation of the results has been provided in **Appendix J**.

Table 6.7: Summary of Surface Water Analytical Results Exceedances

Analyte	Conc. Range (µg/L)	Summary of Surface Water Analytical Results
On-base		
PFBS	LOR to 0.70	• No criteria exceedances were identified for PFBS.
PFOS	LOR to 15.0	• All sample locations except SW382 were reported above the ANZG 2025 Freshwater (99% Protection) criterion during all sampling events, although it is acknowledged that concentrations at SW390, SW382, SW393, SW398 and SW404 were below the LOR; • SW323, SW333, SW336, SW338, SW346, SW349, SW396 and SW397 in all sampling events were reported above the ANZG 2026 Freshwater (95% Protection) criterion; and • SW397 in both sampling events and SW336 in the May sampling event were reported above the PFAS NEMP 2025 Recreational criterion.
PFOA	LOR to 3.5	• SW397 in both sampling events and SW336 in the May sampling event were reported above the PFAS NEMP 2025 Drinking Water criterion.
Sum of PFOS and PFHxS	LOR to 21.9	• SW333, SW396, SW397 and SW336 were reported above the PFAS NEMP 2025 Recreational Water criterion during one or both sampling events.

Analyte	Conc. Range (µg/L)	Summary of Surface Water Analytical Results
Off-base		
PFBS	LOR to 0.68	• No criteria exceedances were identified for PFBS.
PFOS	LOR to 8.3	• All sample locations except SW430 and SW462, were reported above the ANZG 2026 Freshwater (99% Protection) and NHMRC 2025 Drinking Water criterion during all sampling events, although it is acknowledged that concentrations at SW416 and SW434 were below the LOR in both sampling events; and • Concentrations at SW448 and SW487 in one or both sampling events, were reported above the ANZG 2026 Freshwater (95% Protection) criterion.
PFOA	LOR to 0.4	• Concentrations at SW487 were reported above the NHMRC 2025 Drinking Water criterion in both sampling events.
Sum of PFOS and PFHxS	LOR to 13.0	• Concentration at SW471 and SW487 in one or both sampling events, were reported above the PFAS NEMP 2025 Recreational Water criterion.

Notes:

1. It is acknowledged that the LOR adopted for this investigation exceeds the NHMRC 2025 Drinking Water Criteria for PFOS. A less than LOR result has been considered an exceedance, as discussed in **Section 5**, with the potential risk from the result assessed in the context of the HHERA (Golder 2020).

6.3.3 Trend Analysis

No Mann–Kendall trend analysis was undertaken for surface water monitoring locations due to the variable nature of surface water systems. Variability driven by external factors, particularly rainfall and flow conditions, limits the applicability of Mann–Kendall analysis, especially for ephemeral surface water features present across a large portion of the base. Inconsistent rainfall during OMP sampling events has meant that many locations do not have a sufficient number of locations to reliably predict trends.

Furthermore, PFAS concentrations in surface water may exhibit short-term spikes during and shortly after rainfall events as a result of runoff and sediment mobilisation, while elevated concentrations may also be observed during low-flow or stagnant conditions due to increased interaction with sediments and soils. These trends and relationships for the base and Management Area have been explored further in the Mass Flux Study (JBS&G 2024b).

The surface water results have been discussed in the context of the conceptual understanding of the base and Management Area, along with the current and proposed risk management measures, in **Section 8** and **Appendix J.**

7. Other Aspects

In unison with the OMP program, since 2021, Defence has engaged consultants to progress other investigations as part of implementation of the PMAP. These works have been detailed in **Appendix I** and summarised in **Table 7.1,** as they provide additional information and data that assists in interpretation of the OMP results. In addition to these assessments, the OMR – 2021, 2022 and 2023 (JBS&G 2025b) and the OMR – 2024 (JBS&G 2025d) has also been reviewed in this section to provide context for historic results at the OMP sampling locations.

Table 7.1: Relevant Investigation Information

Work	Work Overview
DSI Addendum (JBS&G 2024a)	This investigation was conducted to gather additional data on PFAS contamination, focusing on Source Area 6 in South Bandiana and Source Area 13 in East Bandiana. The investigation aimed to better define the extent and mobility of PFAS within these areas and assess migration pathways to off-base locations. The assessment indicated that future works should focus on reducing PFAS migration from the base through remediation and/or management. It was concluded that an appropriate remedial response to address the PMAP Management Action will likely involve a combination of Source Area and remediation and/or management of affected pathways.
Mass Flux Study (JBS&G 2024b)	This investigation was conducted to quantify annual PFAS mass flux from the base into off-base areas. The Mass Flux Study confirmed the DSI Addendum (JBS&G 2024a) CSM, in that the primary off-base PFAS migration pathway for South and North Bandiana was via surface water, while the primary pathway for East Bandiana was via groundwater.
Source Area 1 and 7 Further Investigation (JBS&G 2025a)	Based on the findings of previous investigations, additional investigation work was completed within both Source Area 1 and 7 to assess the potential effect on soils and infrastructure from PFAS-based AFFF training and use. The further assessment was used to assess the influence of PFAS in soil on measured concentrations in groundwater and surface water runoff. It was identified that while the contamination identified in both Source Areas did not pose a current risk to human health, the investigation did confirm that the Source Areas will require remediation and/or management action in order to assist in achieving PMAP Risks Management Actions.
OMR – 2021, 2022, 2023 and 2024 (JBS&G 2025b and JBS&G 2025d)	The OMR – 2021, 2021, 2023 and 2024 presented and evaluated the OMP data from six sampling events (November 2021, May 2022, October 2022, May 2023, October 2023 and April 2024) completed by Stantec and one sampling event (November/December 2024) completed by JBS&G.

In addition to the further investigation undertaken, review of other aspects which could influence the CSM and the Management Area risk profile is also undertaken as part of this OMR. This has been summarised in **Table 7.2.**

Table 7.2: Other Aspects Considered

Aspect	Consideration for OMR
Development works or changes in on-base land use	Civil Works – South Bandiana In early 2025, defence undertook road and drainage redevelopment works across a large amount of the Closed Training Area (CTA) (western most portion of South Bandiana) and some parts of the adjacent operational part of the base. The works primarily involved the regrading and sealing of some roads and the clearing or improvement of surface drains within the CTA. Soil and sediment was generated as part of the works, with the material being disposed off base to a licensed facility. These works were noted as possibly influencing surface water PFAS concentrations during the E8 sampling event owing to the mobilisation or removal of PFAS impacted soils/sediments. Environmental Investigation – South and East Bandiana During mid-2025, groundwater injection and extraction wells were installed in South Bandiana (adjacent existing wells MW307 and MW321) and East Bandiana (along the northern boundary in the vicinity of Source Area 14). These new wells were established close to, and within the same aquifers, as the existing monitoring network sampled as part of the OMP. At the completion of drilling, each well was developed and subjected to short duration pump tests, which involved the removal of up to 1,000 L of groundwater from each well. Other No other significant development works or changes have been identified in on-base portions of the Management Area.
Development works or changes in off-base land use	No significant development works or changes have been identified in off-base portions of the Management Area. No new registered groundwater bores have been identified within the Management Area, with the current bore network, as documented by VVG (VVG 2025), shown in **Figure 11, Appendix A**.
Significant weather events	No significant weather events were identified during the OMR period, noting that climate trends and rainfall events, along with their influence on the data have been discussed throughout this report.
Changes in EPA Victoria Precautionary Advice	The Environment Protection Authority Victoria (EPA) precautionary advice regarding carp consumption from the Kiewa River is still in force and has not changed since the previous OMR. The carp advisory area is provided in **Figure 10, Appendix A**.
Changes in nationally endorsed PFAS screening criteria	During the period that this OMR was produced, updated NHMRC Drinking Water guidelines and ANZG guideline values for aquatic ecosystem protection for PFAS have been released. This document, including the PFAS screening criteria as presented in **Section 5**, has been adopted as part of this OMR.

8. Discussion

The following section provides a discussion on the results of the two 2025 OMP sampling events in the context of the observed field and analytical trends and their setting in the broader PMAP program.

Sampling results from the May sampling event have been provided in **Figure 7A** through **7C, Appendix A**, while results from the October sampling event have been provided in **Figure 8A** through **8C, Appendix A**.

Statistical trend analysis of the data has been completed for groundwater, as summarised in **Section 6.2.4**. While statistical trend analysis can provide a robust assessment of long-term trends, they are not suited to assessing short-term fluctuating trends, nor do they consider other factors relevant to the CSM, such as climatic conditions and rainfall fluctuations, which is explored further in this section and **Appendix J**.

8.1 Groundwater

8.1.1 Groundwater – CSM and Consideration of Analytical Results

The current CSM indicates that the primary pathway for PFAS migration across East Bandiana is via groundwater. Previous investigations have also established that groundwater from the base is connected to oxbow lakes in the Kiewa River floodplain, therefore contributes to surface water PFAS concentrations in this off-base area. In North and South Bandiana, groundwater is not the primary migration pathway owing to the clayey nature of the geology within these areas, which restricts vertical and lateral migration.

In East Bandiana, the existing PFAS plume in groundwater, originating from Source Area 13 and flowing in a northeast direction, has continued to be monitored during the OMP period. The extent of the plume in 2025 is similar to that previously documented although minor concentration changes have been observed in individual wells across the area. Remediation within the main PFAS plume will prevent further migration of PFAS impacted groundwater from East Bandiana into off-base areas.

In South and North Bandiana, groundwater migration is slow owing to the clayey geology resulting in PFAS concentrations in Source Areas remaining consistent (exceptions discussed below). The additional off-base wells included as part of the 2025 OMP confirmed that PFAS concentrations were below the LOR to the northwest of South Bandiana. The new monitoring did however confirm that low level PFAS concentrations (~0.2 µg/L sum of PFAS) are migrating to the east of North Bandiana within the residential development of Killara. This scenario had previously been considered as part of the HHERA (Golder 2020), and Defence continues to engage with the community surrounding water use to ensure risks remain low.

The CSM and assessment of risk to human and environmental receptors continues to be updated and refined as additional investigations and studies are completed. The OMP data collected during 2025 confirms the current CSM and that risk associated with realised exposure scenarios identified in the HHERA (Golder 2020) remains low and acceptable.

Exceptions in South Bandiana

MW307 (Source Area 1) and MW321 (Source Area 7), both on South Bandiana, have been identified as the wells which have the highest PFAS concentrations during 2025 within the base (MW307 - 350 µg/L sum of PFAS, MW321 – 740 µg/L sum of PFAS). Concentrations in these wells have oscillated during recent sampling rounds (MW307: 145 µg/L to 1974 µg/L, MW321: 0.78 µg/L to 1,441 µg/L), which may be attributed to recent investigations (both soil and groundwater) within these areas, along with the influence of natural local conditions (i.e. dry weather conditions influencing base hydrogeology). It is important to note that both locations had groundwater extraction bores installed immediately adjacent to them during 2025, as part of upcoming remediation works. The subsequent development of these extraction bores may have potentially assisted with reduced concentrations within these areas during 2025. Once remediation commences using these extraction wells, further reductions in groundwater PFAS concentrations are anticipated.

PFAS concentration increases were identified in Source Area 6 (MW051 and MW416) during 2024, which were confirmed with the 2025 monitoring, albeit at slightly lower concentrations. Wells downgradient from this Source Area have not identified the same increase. Considering the clayey geology and deeper aquifer (~24 mbgl) in this area, the monitoring demonstrates that higher concentrations are restricted to the aquifer immediately surrounding the facility. The proposed remediation of Source Area 6, consisting of facility demolition and soil stabilisation, will assist in treating this secondary source and reducing PFAS concentrations in groundwater across this portion of the base.

Exceptions in East Bandiana

Of the eleven groundwater locations where PFAS concentrations have been identified as trending up, eight of them are located in and around East Bandiana. The installation of groundwater extraction and treatment infrastructure along the northern base boundary has been undertaken and subsequent commissioning and operation is planned in the future to reduce off-base PFAS migration. Once in operation, the PFAS plume defined in part by the eight wells identified as trending up, will be managed through this system. In addition to this, Defence regularly engage with stakeholders on and surrounding the base to ensure current and potential risks relating to PFAS in groundwater are appropriately communicated and managed.

8.1.2 OMP Program Changes

No changes to the OMP program are considered to be required.

As highlighted above, the groundwater changes to the OMP as a result of recommendations in the 2024 OMR (JBS&G 2025d), is considered suitable for the ongoing monitoring of PFAS within the Management Area. Discussion regarding the outcomes of the trend analysis in the context of the trigger values presented in the OMP (Defence 2025) have been provided in **Appendix J**. It is noted however that on-going monitoring of PFAS within the management area will be occurring external to the OMP as part of remediation performance monitoring.

8.1.3 Analytical Results Based on Weather Conditions

As noted in **Section 6.1**, above average rainfall occurred during the previous OMR period (2021 through 2023), while below-average conditions have occurred during the last two OMR periods (2024 and 2025). Groundwater levels increased across the base during 2022, although many wells had returned to a similar level as the November 2021 sampling event by the 2023 sampling events. In general, standing water levels varied during 2025. This has been shown in **Table 8.1**, where average standing water levels recorded during the sampling events have been compared to the sampling event prior to show level changes. Due to the reduction in sampling frequency of on-base monitoring wells to an annual basis, groundwater levels from the E9 sampling event have been compared to levels from the E7 event (i.e. the last Spring sampling event).

Table 8.1: Average Standing Water Level Changes by Aquifer – 2025 OMP Sampling Events

Aquifer	E9
Shepparton Colluvium – Shallow	Decrease of 0.01 m
Shepparton Colluvium – Perched	Not monitored
Shepparton and Coonambidgal Fluvium – Shallow	Decrease of 0.11 m
Shepparton and Coonambidgal Fluvium – Intermediate	Decrease of 0.12 m
Shepparton and Coonambidgal Fluvium – Deep	Decrease of 0.20 m

Notes:

1. Due to the limited number of wells sampled during the E8 event, groundwater changes for E9 event have been compared to the E7 event and change between the E7 and E8 event has not been shown.
2. Only a limited number of monitoring wells were monitored during the E8 event, which may exaggerate the change in the SWL.

Previous OMP results and decreasing groundwater levels identified a correlation between rainfall and standing water levels in the Management Area, although the relationship occurs over long periods (i.e. months) rather than being influenced over the short term by rainfall events or other factors.

With the Management Area transitioning from an above-average rainfall period (2021 through 2023) through to a below-average period (2024 and 2025), decreasing standing water levels dominate. As identified in previous OMRs, increasing groundwater levels likely resulted in increasing PFAS concentrations within groundwater, however the trend analysis conducted as part of this OMR shows that the majority of wells have stabilised PFAS concentrations during 2025 (with the exception of those in the main East Bandiana plume).

Groundwater quality parameters collected during the OMP sampling events were also reviewed to assess the influence of changing rainfall conditions. A review of the parameter data presented in **Appendix H** along with the data in the OMR – 2021, 2022 and 2023 (JBS&G 2025b) and OMR – 2024 (JBS&G 2025d). Trend analysis undertaken in **Section 6.2.4** indicated that while some monitoring locations are either trending up or trending down in concentration the majority of locations show no trend despite the variability in rainfall. As indicated previously, aquifers in the Management Area are not influenced by short-term changes.

8.2 Surface Water

8.2.1 Surface Water – CSM and Consideration of Analytical Results

Surface water has been identified as the primary PFAS migration pathway for North and South Bandiana and groundwater from East Bandiana is known to daylight off-base as springs, seeps and in oxbows in the Kiewa River floodplain. As such, surface water sampling as part of the OMP is critical to monitoring PFAS movement across the base and into the Jack in the Box Creek and Kiewa River catchments.

A discussion of the OMP surface water concentrations with respect to the overall program including the current CSM has been provided in **Table J.2** in **Appendix J.**

The surface water results obtained during the 2025 OMP sampling events are consistent with the findings of the DSI Addendum (JSB&G 2024a), Mass Flux Study (JBS&G 2024b) and the Source Area 1 and Source Area 7 Further Investigation (JBS&G 2025a).

As identified in **Table J.2** in **Appendix J**, there were several minor anomalous results identified during 2025 OMP sampling events. These are considered the result of on-base civil activities disturbing PFAS affected sediments, or drier than average conditions concentrating PFAS within reduced water bodies.

Defence propose to complete remediation across the base to reduce PFAS concentrations in surface water, which is caused by the presence of low level PFAS in surface soils. It is proposed to trial a combination of PFAS source removal (both soil and infrastructure) and surface soil treatment (including drains), which may have broader applications at the base if successful.

8.2.2 Analytical Results Based on Weather Conditions

Based on the investigation work that has been completed to date, it has been identified that all but the key waterways and drainage channels across the base and Management Area are ephemeral and only have flows immediately following rainfall events. This is a result of the base's location close to the top of the watershed. This characteristic of the base, however, results in the risk of no water being available to sample as part of an OMP unless sampling events are undertaken immediately following a reasonable rainfall event. This is apparent in the results of OMP sampling events E2, E4, E6 and E9.

The missing data from potential sampling locations makes it difficult to ascertain trends and relationships between analytical results and weather conditions when assessing the OMP program data set as a whole. The fact that many waterbodies and drainage channels dry completely during periods of the year also make the relationship difficult to assess as other factors influence the results (i.e. soil and sediment conditions,

type of water body, etc.). As discussed further in **Section 6.3.3**, this variability in the conditions for many surface water locations make Mann-Kendall analysis unsuitable for this type of data.

A review of water bodies with close to complete data sets indicate that periods of below-average rainfall tend to have slightly higher PFAS concentrations in surface water, although the relationship does not apply to all locations. This relationship has been identified for several locations during the 2025 sampling period, including SW336. This relationship is likely caused by a concentration of PFAS in a lesser volume of water available during drier periods.

Trends and relationships between weather conditions and analytical results have been further assessed as part of the Mass Flux Study (JBS&G 2024b).

8.2.3 Analytical Results Based on Water Flow

The intention of surface water monitoring is to collect surface water samples during or immediately following rain events. This will allow collection of flowing water from water courses, rather than stagnant water which may record higher PFAS concentrations owing to prolonged contact with soils/sediments containing PFAS. Due to weather conditions or the quick draining nature of some portions of the base, this is not always achievable. It is also noted that many of the water bodies sampled are oxbows or ponds in which the water is naturally stagnant, rather than flowing. Therefore, the influences are considered when reviewing and analysing the data set.

During field work, the flow rate is recorded at each surface water sample location and included in the appendix of each SER (see **Appendix E** and **Appendix F**). A review of the data from 2025 identified the flow in the waterways outside the major creeks and rivers was stagnant to low and generally consistent across both the E8 and E9 sampling events. This is consistent with the rainfall experienced during both sampling events. A comparison of the analytical results between no-flow and low-flow sampling rounds did not indicate a clear correlation or pattern between flow rates and increased PFAS concentrations.

9. OMR Conclusions and Implications for PMAP

The following section provides a discussion of potential implications of the 2025 OMP results reported in this OMR on the overall PMAP program, including refinement to the CSM and the risk profile.

9.1 CSM

The current CSM has been developed based on multiple investigations completed in recent years, including the DSI Addendum (JSB&G 2024a), Mass Flux Study (JBS&G 2024b) and the Source Area 1 and Source Area 7 Further Investigation (JBS&G 2025a). The CSM takes into consideration sources, pathways and receptors, each of which have been discussed in the following sections.

9.1.1 Source Areas

The results of the groundwater and surface water monitoring undertaken and summarised in this OMR did not identify additional Source Areas as listed in **Section 2.2**.

During 2025, statistical analysis of trends within groundwater was completed which identified increasing trends within multiple locations. These increases are primarily within know source areas or within the PFAS plume at East Bandiana and are well understood from a conceptual perspective. These increasing concentrations are not considered indicative of new source areas on base. Many of the locations which have either elevated PFAS concentrations in either soil, surface water or groundwater, or which exhibit increasing trends, will be the focus of remediation.

Excluding the areas already identified as requiring remediation throughout this OMR, monitoring will continue across the base to understand any potential changes in PFAS risk, with the need for any investigation or additional management actions continually assessed.

9.1.2 Pathways

A detailed appreciation of migration pathways across the base and Management Area was the focus of several investigation completed in recent years (i.e. DSI Addendum (JBS&G 2024a), Mass Flux Study (JBS&G 2024b) and the Source Area 1 and Source Area 7 Further Investigation (JBS&G 2025a)). As was established during these investigations, the primary PFAS migration pathways for North and South Bandiana is surface water, while for East Bandiana it is groundwater. The OMP results discussed as part of this OMR are consistent with the pathways established under the CSM, and no new pathways have been identified at this stage.

9.1.3 Receptors

No new receptors have been identified as part of preparation of this OMR.

As highlighted in the 2024 OMR (JBS&G 2025d), Defence completed a Water Use Survey program within parts of Killara at the end of 2024. This community engagement identified new individual users of water within the area, however, no new uses beyond those already considered as potential exposure scenarios as part of the HHERA (Golder 2020). Based on this, the risk for these newly identified water users in Killara is considered low and acceptable. This information has been used to assist with remedial planning and will be incorporated into the PMAP document when revised post remediation.

9.1.4 CSM Revision

In light of the data reviewed as part of this report, the CSM does not require any changes/updates.

9.2 Risk Profile

The OMP analytical results discussed as part of this OMR were generally within ranges identified and considered in previous PFAS investigations undertaken at the base since 2017. While it is appreciated that

concentrations have been identified in groundwater and surface water which exceed criteria adopted to protect relevant environmental values, as identified in **Section 5**, the risk has previously been evaluated as part of the HHERA (Golder 2020) and found to be low and acceptable for all currently realised exposure scenarios for human health.

It is acknowledged that during 2025 increasing concentration trends, or increased individual sample location concentrations compared to historic data, were identified. All these increases are considered to only be marginal (i.e. not orders of magnitude) and based on a review of the source-pathway-receptor linkage for all identified changes, it is considered that the risk profile (i.e. the exposure of human or ecological receptors to PFAS effected media resulting in unacceptable health impacts) of the identified contamination remains unchanged.

Based on the results of the OMP monitoring outlined and analysed in this OMR, it is considered that the existing monitoring network is sufficient to continue monitoring of PFAS identified within Source Areas and migration pathways.

For the community surrounding the base and other identified stakeholders, the results from the OMP program which have been reviewed as part of this OMR, show that PFAS concentrations on and surrounding the base are consistent (with the exception of parts of the East Bandiana groundwater plume), and as identified above, present a low and acceptable risk for current human health exposure scenarios. The ongoing monitoring within the Management Area continues to assist Defence achieve and work towards closing out the current management actions identified in the PMAP (Defence 2020). Furthermore, the OMP monitoring allows Defence to continue to monitor and implement plans to reduce potential risk of harm posed by PFAS. Based on the current OMP results, there are no additional changes or requirements considered necessary for the overall PMAP program.

10. Conclusions

JBS&G completed a review of the 2025 OMP sampling events. Results from these events have been assessed against adopted criteria and reviewed in the context of existing investigations and historical data in order to identify and evaluate:

- Spatial and temporal (including seasonal) variability of PFAS in the environment;
- Changes to PFAS sources, transport pathways and/or receptors for the base and wider Management Area;
- Whether risks to human and ecological receptors require review; and
- Whether the identified changes in PFAS concentrations during the OMP trigger an action and/or review.

Based on the review completed, the overall objectives of the OMP have been achieved, with minor deviations from the SAQP not identified as material to the program outcomes. The conclusions reached, in accordance with the limitations provided in **Section 11**, have been provided below.

10.1 Groundwater

Similar to 2024, 2025 has been a below-average rainfall period. Groundwater levels and concentrations have remained relatively consistent between the two yearly periods, unlike the 2021-2023 period which experienced above average rainfall resulting in higher groundwater levels and minor increasing PFAS concentration trends. This trend was documented in previous OMRs.

Groundwater flow directions within the Management Area have remained consistent in 2025 to previous OMP sampling periods and supports the conceptual understanding of the area, which comprises flow from topographically high areas to topographically low areas. The Shepparton and Coonambidgal Fluvium shallow aquifer at East Bandiana flows in an easterly and north easterly direction towards the Kiewa River, while the Shepparton Colluvium shallow aquifer (South Bandiana and North Bandiana) flows in a west and northwest direction towards Jack in the Box Creek.

The groundwater analytical results from the 2025 OMP sampling events have remained relatively comparable with previous OMP sampling events and previous environmental investigations.

PFAS concentrations within the Shepparton Colluvium shallow aquifer, in North and South Bandiana, are relatively consistent with historic data, with the exception of several wells on and off-base which have had only very minor increases (i.e. not orders of magnitude). Several Source Areas within this aquifer still present elevated PFAS in groundwater results, which are the focus of targeted remedial works owing to the low transmissivity nature of the aquifer in this portion of the base.

PFAS concentrations within the Shepparton and Coonambidgal Fluvium aquifers at East Bandiana are also relatively consistent with historic data, although several wells within the main East Bandiana PFAS plume have shown increasing trends. This pathway, which is the primary transport mechanism in this portion of the base, is proposed to be addressed by remediation which is expected to prevent further migration of PFAS impacted groundwater into off-base areas.

10.2 Surface Water

The surface water results obtained from the 2025 OMP sampling events indicate relatively consistent concentrations and align with the identified Source Areas and their respective pathways to off-base areas. This includes elevated surface water PFAS concentrations associated with select Source Areas (1, 5, 6 and 7) across South Bandiana being transported into Jack in the Box Creek and Kiewa River off-base catchments. Anomalous results were identified during the OMR period, however these are considered the result of on-

base civil activities disturbing PFAS affected sediments, or drier than average conditions concentrating PFAS within reduced water bodies.

Based on the surface water data from all OMP sampling events available, periods of below-average rainfall tend to lead to slightly higher PFAS concentrations in surface water, although the relationship does not apply to all locations.

Defence propose to complete remediation across the base to reduce PFAS concentrations in surface water, which is caused by the presence of low level PFAS in surface soils. It is proposed to trial a combination of PFAS source removal (both soil and infrastructure) and surface soil treatment, which may have broader applications at the base if successful.

10.3 CSM and Risk Profile Update

The 2025 OMP results did not identify any additional Source Areas which had not been previously assessed and no additional transport/exposure pathways or changes to existing pathways have been identified.

The OMP analytical results discussed as part of this OMR were within ranges identified and considered in previous investigation reports. Where PFAS increases have been identified during an OMP event, a review has been completed of the source-receptor pathway to identify if there has been a change in risk to on and off-base receptors – none were identified for current human health exposure scenarios.

10.4 Program Triggers or Actions

Based on the assessment completed as part of this OMR it was concluded that the objectives of the OMP have been achieved by the program. The assessment has identified that PFAS concentrations during the 2025 period were generally consistent with previous OMP results, along with previous investigation and historic data. As a result, there has been no change in risk to on and off-base receptors.

For the community surrounding the base and other identified stakeholders, the results from the OMP program which have been reviewed as part of this OMR, show that PFAS concentrations on and surrounding the base are consistent (with the exception of parts of the East Bandiana groundwater plume), and as identified above, present a low and acceptable risk for current human health exposure scenarios. The ongoing monitoring within the Management Area continues to assist Defence achieve and work towards closing out the current management actions identified in the PMAP (Defence 2020). Furthermore, the OMP monitoring allows Defence to continue to monitor and implement plans to reduce potential risk of harm posed by PFAS. Based on the current OMP results, there are no additional changes or requirements considered necessary for the overall PMAP program.

Increasing and decreasing result trends have been identified as part of the OMP, and each has been scrutinised in accordance with the trigger responses outlined within the OMP (Defence 2025). Based on the review, no immediate actions are considered necessary, particularly as Defence plan to complete remedial works within Source Areas on East Bandiana and South Bandiana to reduce the migration of PFAS into off-base areas.

The existing monitoring network is considered sufficient to continue monitoring of PFAS identified within Source Areas and migration pathways and there are no proposed amendments to the overall OMP.

11. Limitations

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

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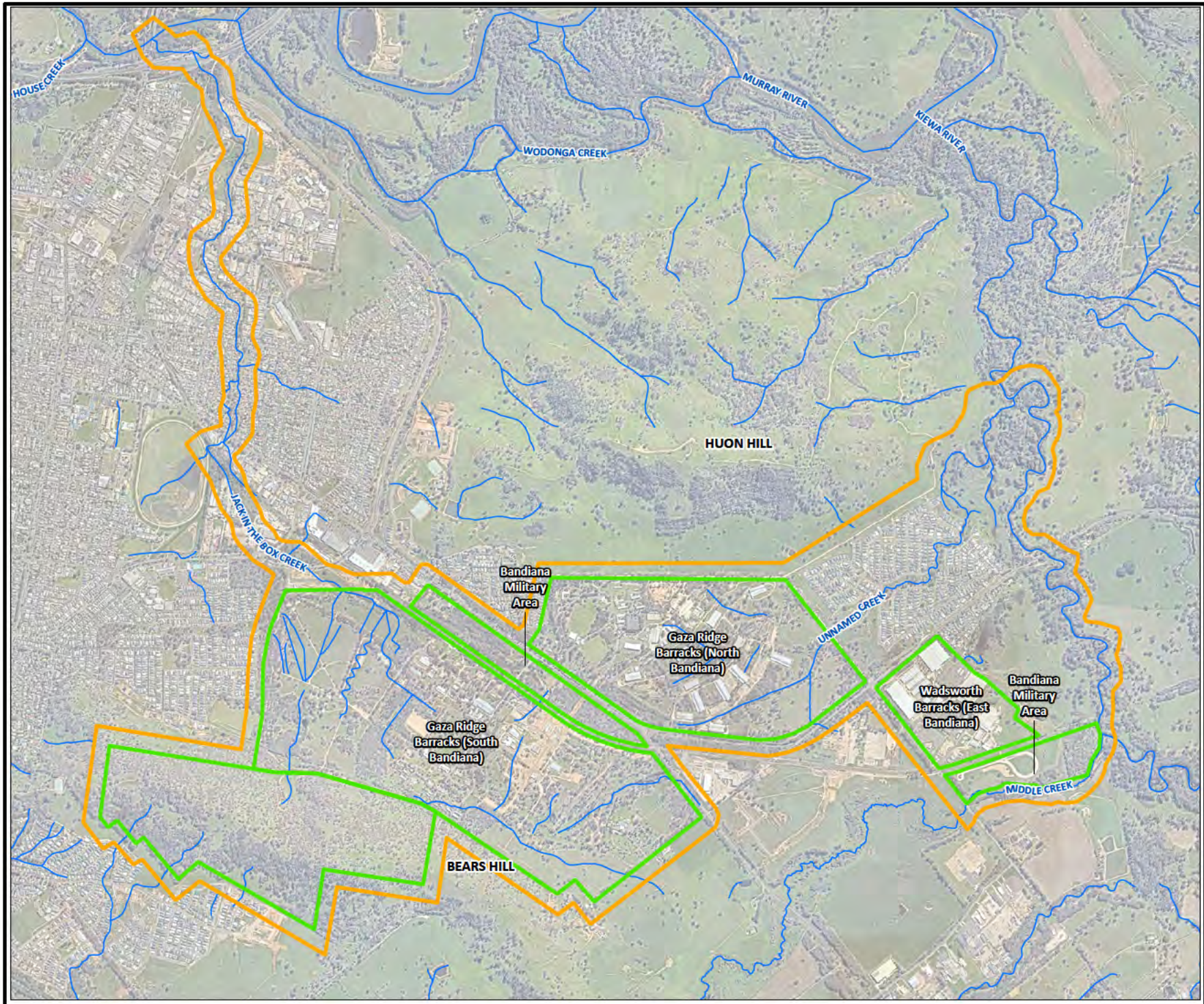
Appendix A Figures

Figures provided include:

- Figure 1: Site Location Plan
- Figure 2: Source Areas and CSRs
- Figure 3: Surface Water Divide and Pathways
- Figure 4: OMP Groundwater Sample Locations
- Figure 5a/b: OMP Surface Water Sample Locations
- Figure 6a: Groundwater Contours (May 2025)
- Figure 6b: Groundwater Contours (October 2025)
- Figure 7a: Groundwater PFAS Concentrations (May 2025)
- Figure 7b/c: Surface Water PFAS Concentrations (May 2025)
- Figure 8a: Groundwater PFAS Results Summary (October 2025)
- Figure 8b/c: Surface Water PFAS Results Summary (October 2025)
- Figure 9: Pastoral Areas
- Figure 10: Carp Advisory Area
- Figure 11: Registered Groundwater Bores Within Management Area



Legend

- Management Area
- Bandiana Military Area
- Watercourse

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[redacted]

Scale 1:32,000

0 650 1,300
metres

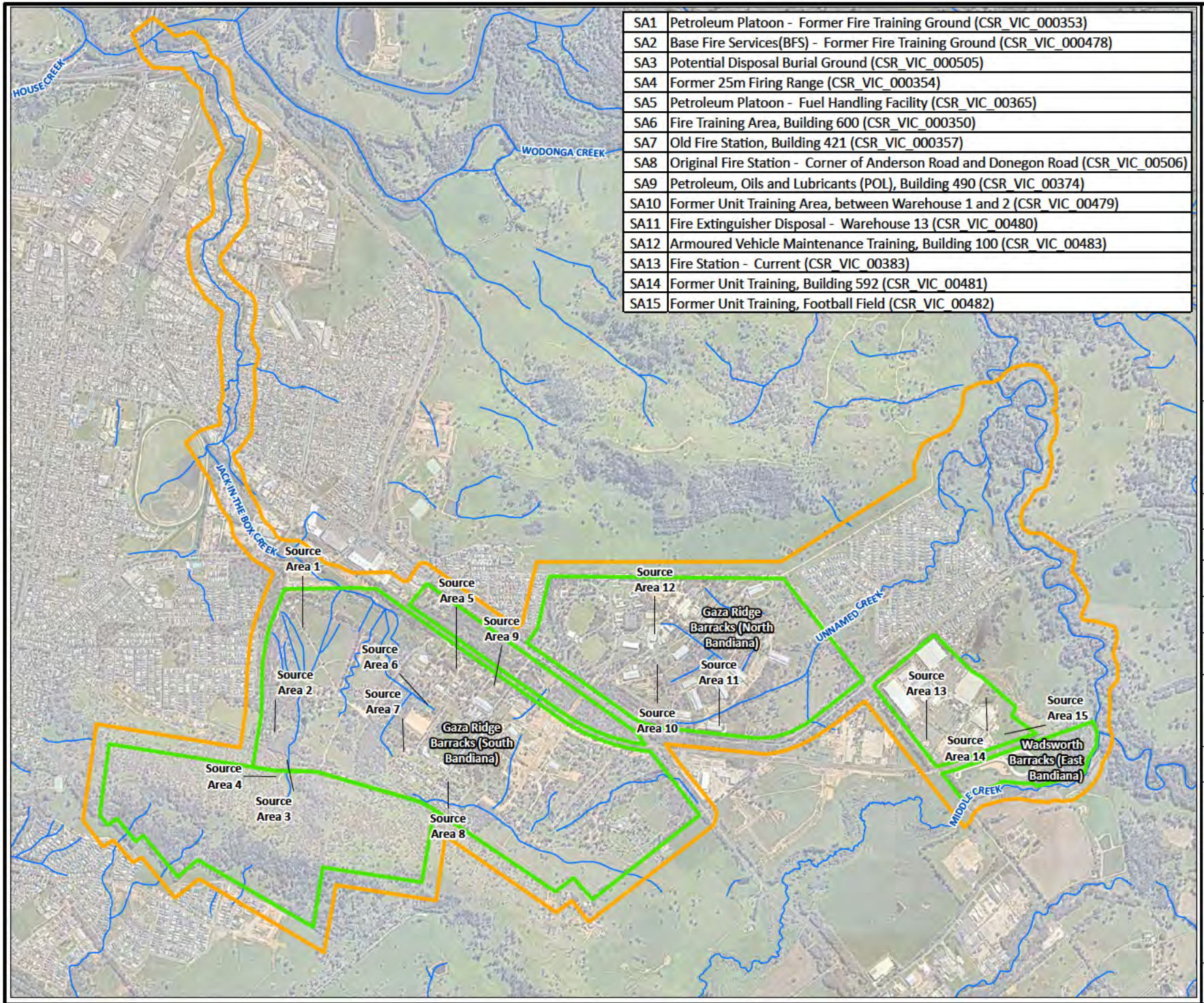
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SITE LOCATION PLAN

FIGURE 1

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground (CSR_VIC_000353)
SA2	Base Fire Services(BFS) - Former Fire Training Ground (CSR_VIC_000478)
SA3	Potential Disposal Burial Ground (CSR_VIC_000505)
SA4	Former 25m Firing Range (CSR_VIC_000354)
SA5	Petroleum Platoon - Fuel Handling Facility (CSR_VIC_00365)
SA6	Fire Training Area, Building 600 (CSR_VIC_000350)
SA7	Old Fire Station, Building 421 (CSR_VIC_000357)
SA8	Original Fire Station - Corner of Anderson Road and Donegon Road (CSR_VIC_00506)
SA9	Petroleum, Oils and Lubricants (POL), Building 490 (CSR_VIC_00374)
SA10	Former Unit Training Area, between Warehouse 1 and 2 (CSR_VIC_00479)
SA11	Fire Extinguisher Disposal - Warehouse 13 (CSR_VIC_00480)
SA12	Armoured Vehicle Maintenance Training, Building 100 (CSR_VIC_00483)
SA13	Fire Station - Current (CSR_VIC_00383)
SA14	Former Unit Training, Building 592 (CSR_VIC_00481)
SA15	Former Unit Training, Football Field (CSR_VIC_00482)

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Watercourse

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[redacted]

Scale 1:32,000

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metres

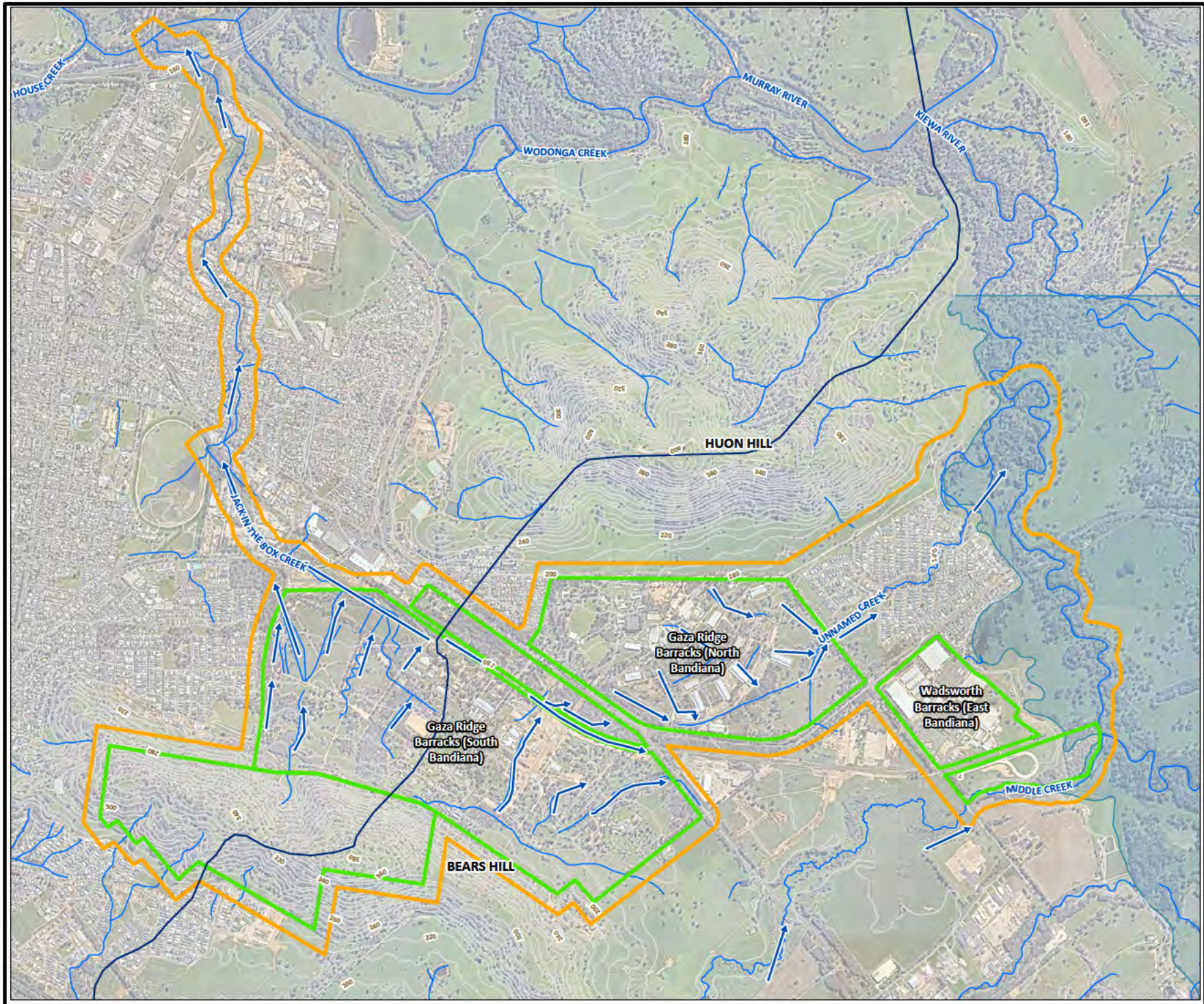
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SOURCE AREAS

FIGURE 2

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Kiewa River Floodplain
- 10m Contours
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

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[redacted]

Scale 1:32,000

0 650 1,300
metres

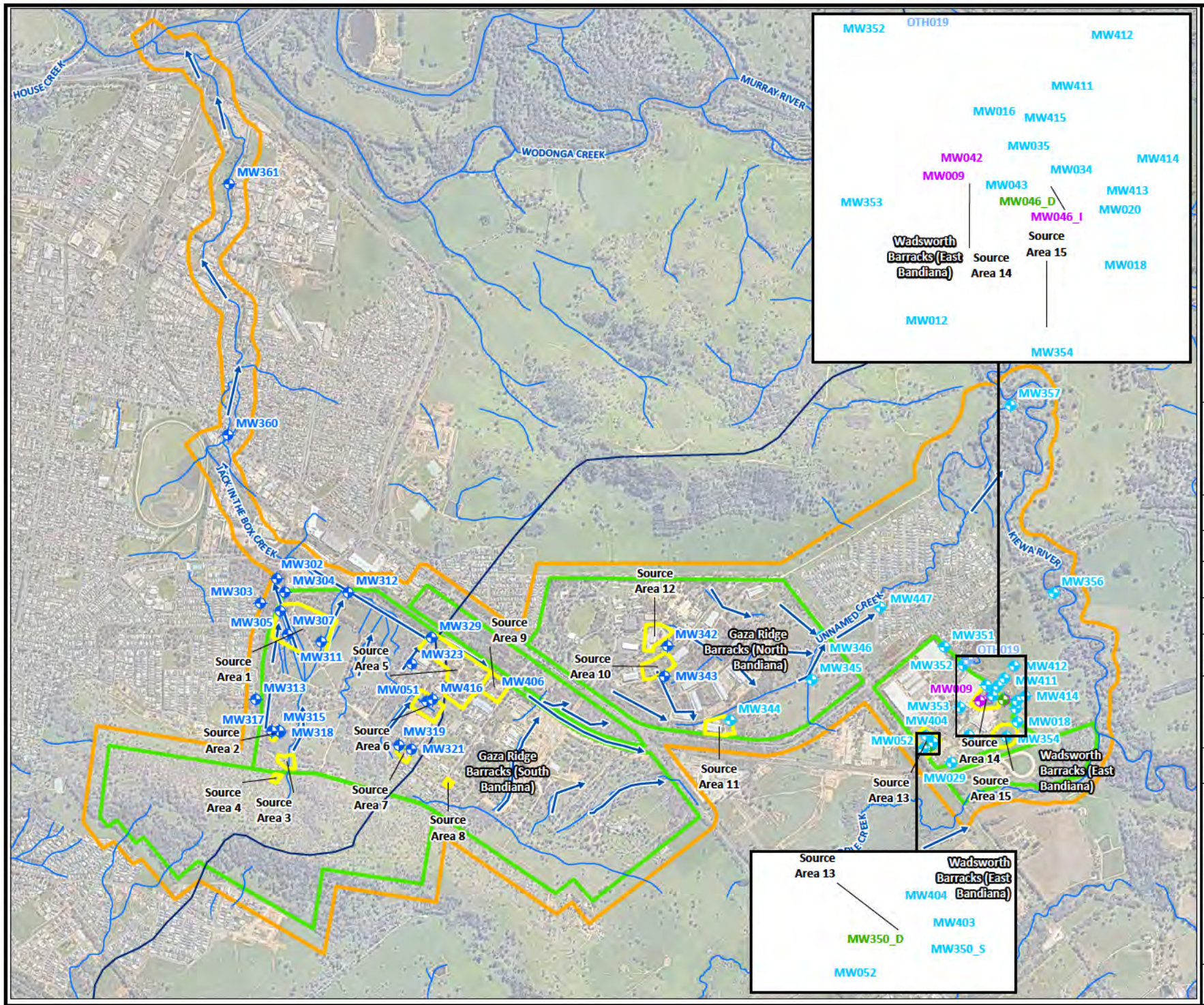
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER DIVIDE AND PATHWAYS

FIGURE 3

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

Groundwater Monitoring Well

- Shepparton and Coonambigdal Fluvium - Shallow Aquifer
- Shepparton and Coonambigdal Fluvium - Intermediate Aquifer
- Shepparton and Coonambigdal Fluvium - Deep Aquifer
- Shepparton Colluvium - Shallow Aquifer
- Point of Use (Tap)

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[redacted]

Scale 1:32,000

0 650 1,300
metres

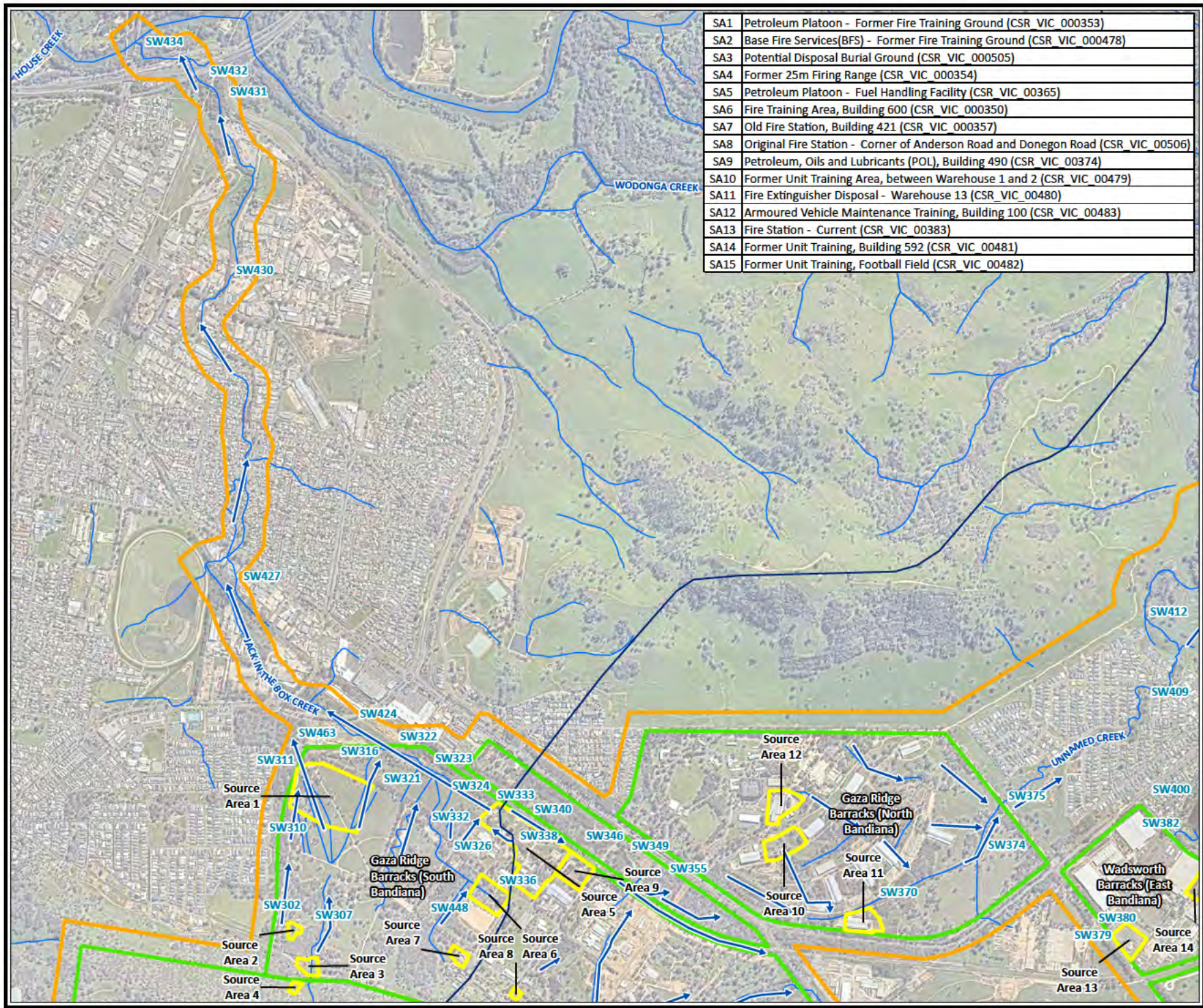
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP GROUNDWATER SAMPLE LOCATIONS

FIGURE 4

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground (CSR_VIC_000353)
SA2	Base Fire Services(BFS) - Former Fire Training Ground (CSR_VIC_000478)
SA3	Potential Disposal Burial Ground (CSR_VIC_000505)
SA4	Former 25m Firing Range (CSR_VIC_000354)
SA5	Petroleum Platoon - Fuel Handling Facility (CSR_VIC_00365)
SA6	Fire Training Area, Building 600 (CSR_VIC_000350)
SA7	Old Fire Station, Building 421 (CSR_VIC_000357)
SA8	Original Fire Station - Corner of Anderson Road and Donegon Road (CSR_VIC_00506)
SA9	Petroleum, Oils and Lubricants (POL), Building 490 (CSR_VIC_00374)
SA10	Former Unit Training Area, between Warehouse 1 and 2 (CSR_VIC_00479)
SA11	Fire Extinguisher Disposal - Warehouse 13 (CSR_VIC_00480)
SA12	Armoured Vehicle Maintenance Training, Building 100 (CSR_VIC_00483)
SA13	Fire Station - Current (CSR_VIC_00383)
SA14	Former Unit Training, Building 592 (CSR_VIC_00481)
SA15	Former Unit Training, Football Field (CSR_VIC_00482)

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Surface Water Sample Location

JBS&G

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[redacted]

Scale 1:25,000

0 500 1,000
metres

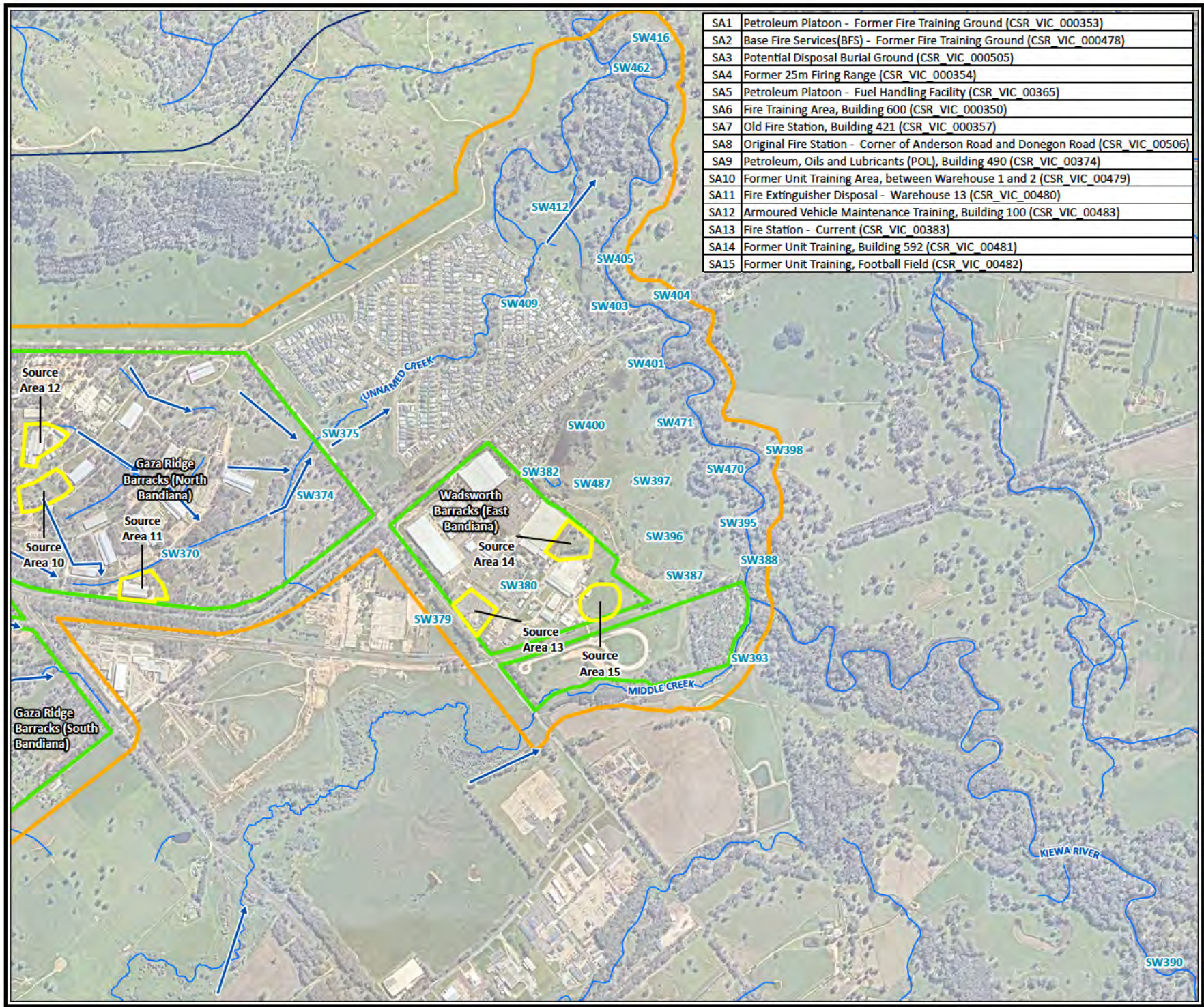
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 5A

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground (CSR_VIC_000353)
SA2	Base Fire Services(BFS) - Former Fire Training Ground (CSR_VIC_000478)
SA3	Potential Disposal Burial Ground (CSR_VIC_000505)
SA4	Former 25m Firing Range (CSR_VIC_000354)
SA5	Petroleum Platoon - Fuel Handling Facility (CSR_VIC_00365)
SA6	Fire Training Area, Building 600 (CSR_VIC_000350)
SA7	Old Fire Station, Building 421 (CSR_VIC_000357)
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SA9	Petroleum, Oils and Lubricants (POL), Building 490 (CSR_VIC_00374)
SA10	Former Unit Training Area, between Warehouse 1 and 2 (CSR_VIC_00479)
SA11	Fire Extinguisher Disposal - Warehouse 13 (CSR_VIC_00480)
SA12	Armoured Vehicle Maintenance Training, Building 100 (CSR_VIC_00483)
SA13	Fire Station - Current (CSR_VIC_00383)
SA14	Former Unit Training, Building 592 (CSR_VIC_00481)
SA15	Former Unit Training, Football Field (CSR_VIC_00482)

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Surface Water Sample Location

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[redacted]

Scale 1:20,000

0 400 800
metres

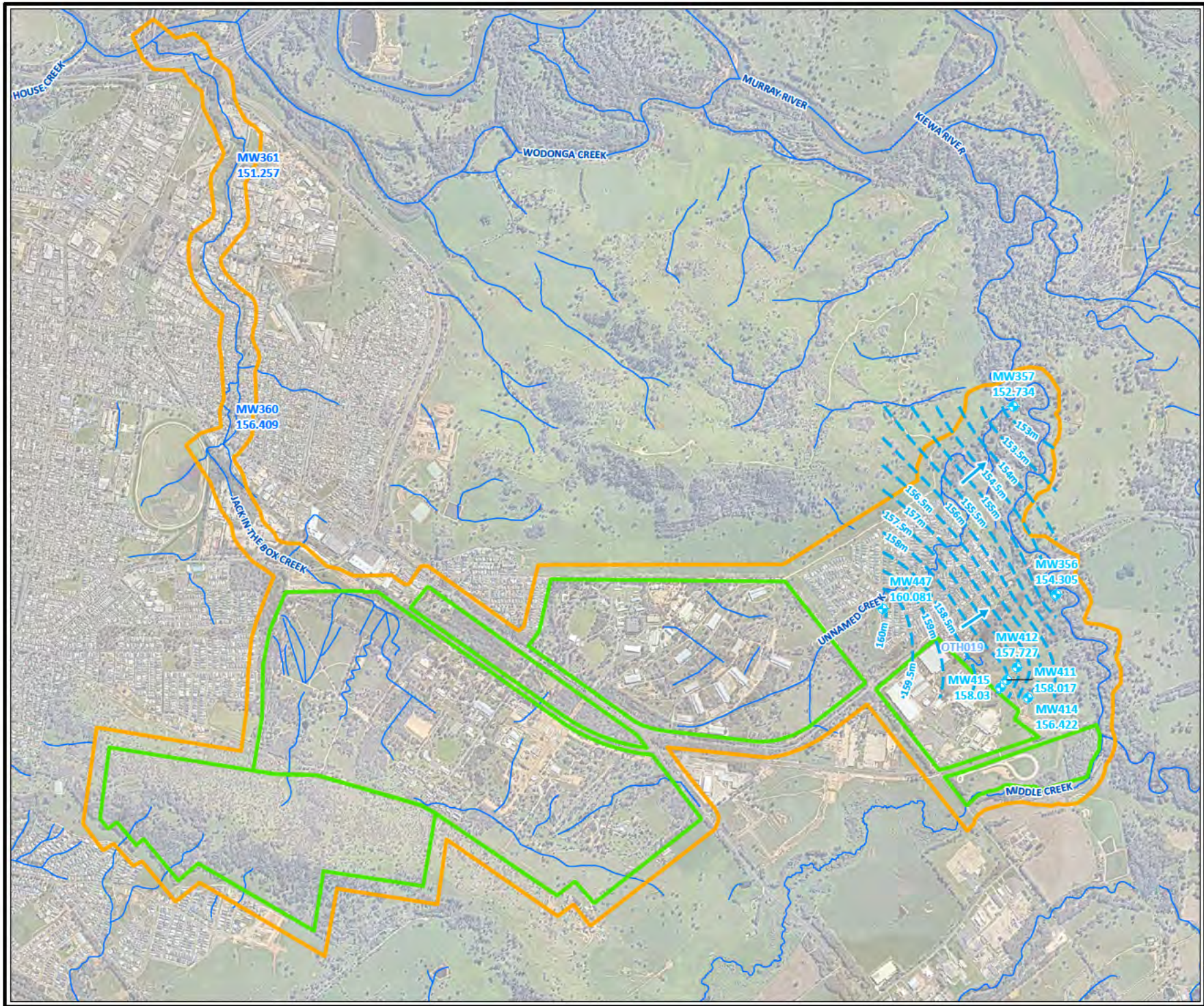
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 5B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Contour

Groundwater Monitoring Well

- Shepparton and Coonambigdal Fluvium - Shallow Aquifer
- Shepparton Colluvium - Shallow Aquifer
- Unknown
- 152.734 151.257 Standing Water Level (mAHD)

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[redacted]

Scale 1:32,000

0 650 1,300
metres

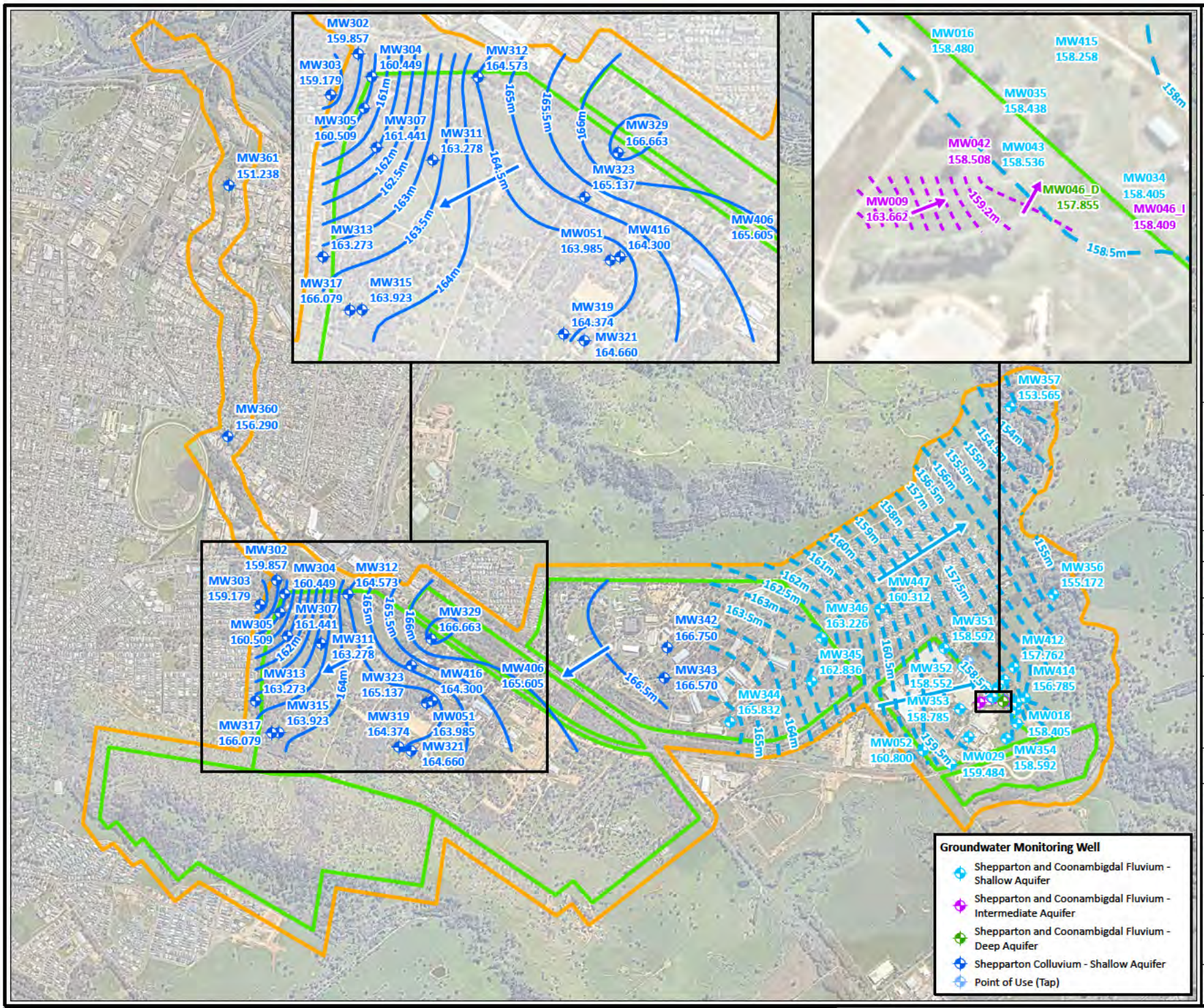
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

MAY 2025 OMP GROUNDWATER CONTOURS

FIGURE 6A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Contour
- Inferred Shepparton Colluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton Colluvium - Shallow Aquifer On Base Contour
- Inferred Shepparton and Coonambidgal Fluvium - Intermediate Aquifer Flow Direction
- Inferred Shepparton and Coonambidgal Fluvium - Intermediate Aquifer Contour
- 152.734 / 151.257 / 163.662 Standing Water Level (mAHD)

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Version: Final | Date: 29-May-2026

[redacted]

Scale 1:32,000

0 650 1,300
metres

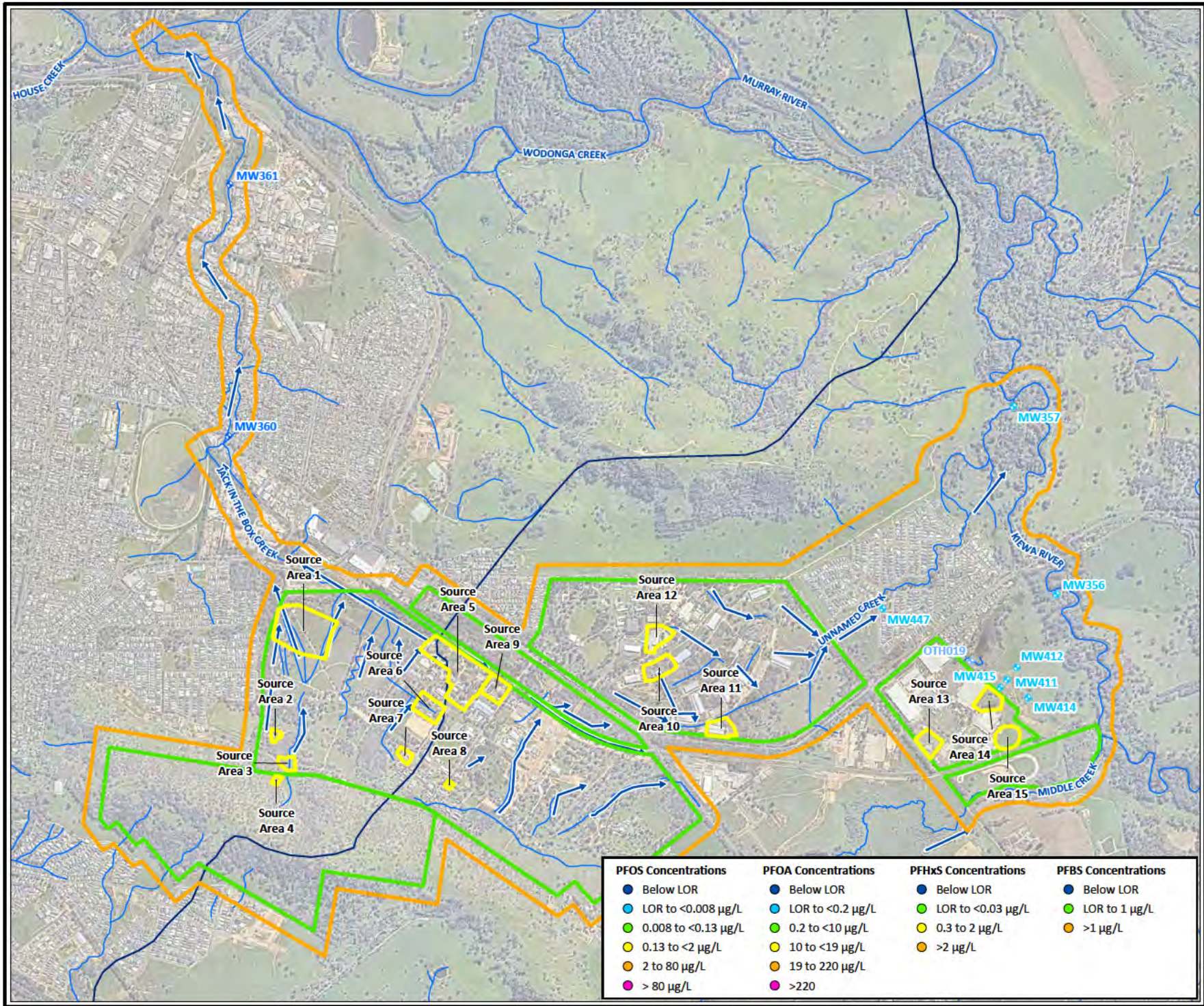
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER CONTOURS (OCTOBER, 2025)

FIGURE 6B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

Well ID Legend

- MW042 Shepparton and Coonambidgal Fluvium - Intermediate Aquifer
- MW046_D Shepparton and Coonambidgal Fluvium - Deep Aquifer
- MW342 Shepparton Colluvium - Shallow Aquifer
- MW018 Shepparton and Coonambidgal Fluvium - Shallow Aquifer

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[redacted]

Scale 1:32,000

0 650 1,300
metres

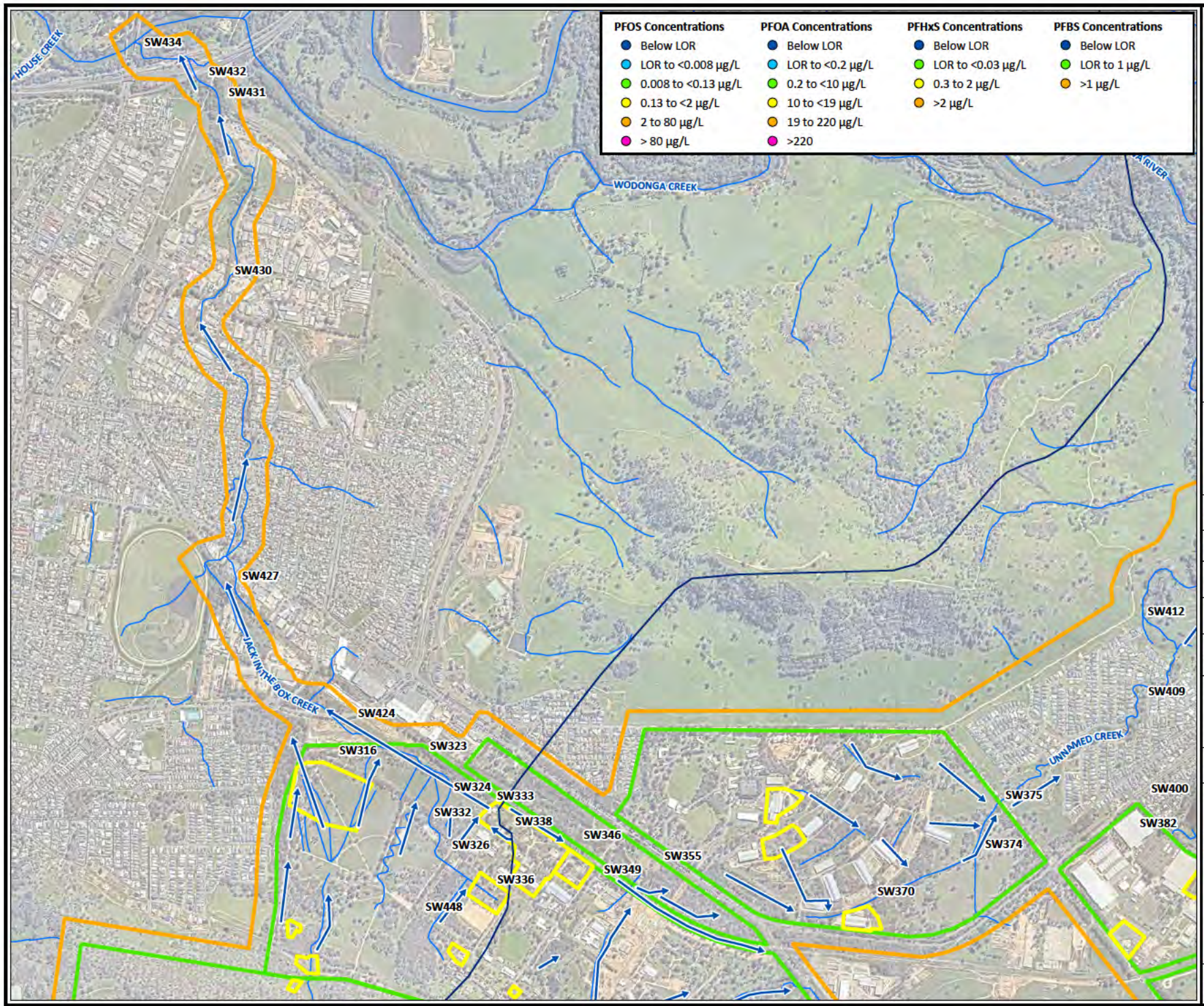
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER PFAS RESULTS SUMMARY (MAY, 2025)

FIGURE 7A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

JBS&G

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[redacted]

Scale 1:25,000

0 500 1,000
metres

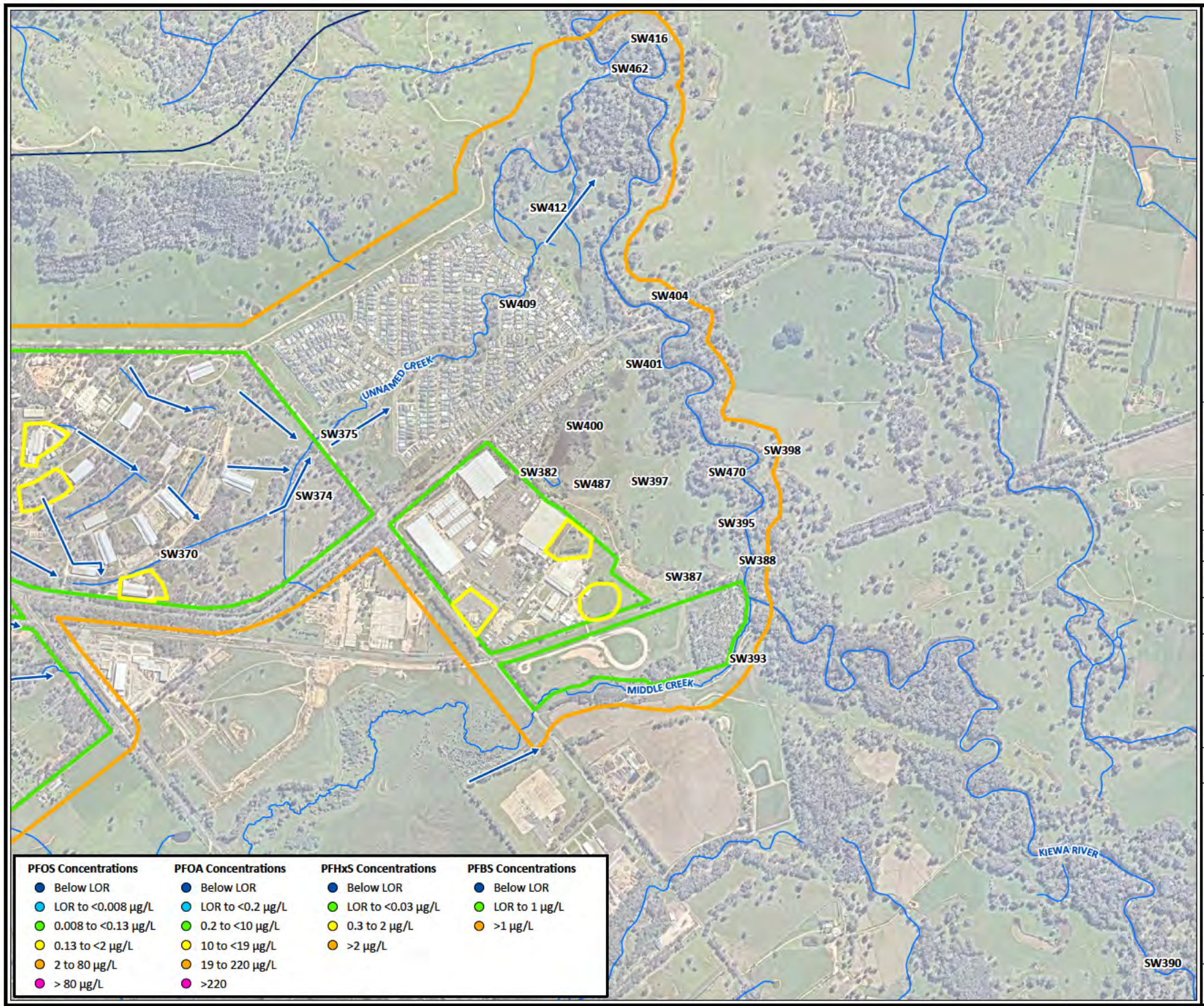
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (MAY, 2025)

FIGURE 7B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:20,000

0 400 800
metres

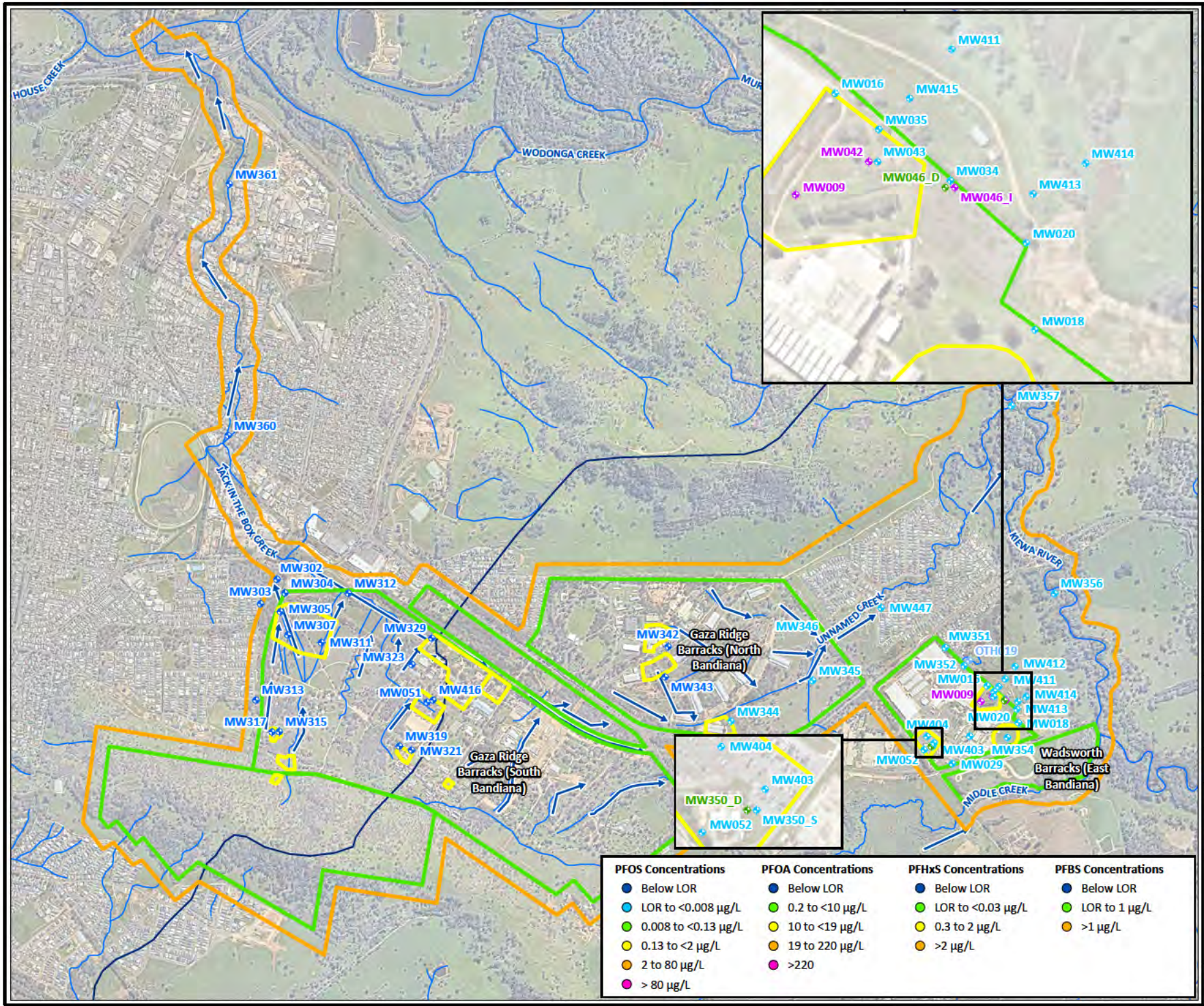
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (MAY, 2025)

FIGURE 7C

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

Well ID Legend

- MW042 Shepparton and Coonambidgal Fluvium - Intermediate Aquifer
- MW046_D Shepparton and Coonambidgal Fluvium - Deep Aquifer
- MW342 Shepparton Colluvium - Shallow Aquifer
- MW018 Shepparton and Coonambidgal Fluvium - Shallow Aquifer

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:32,000

0 650 1,300
metres

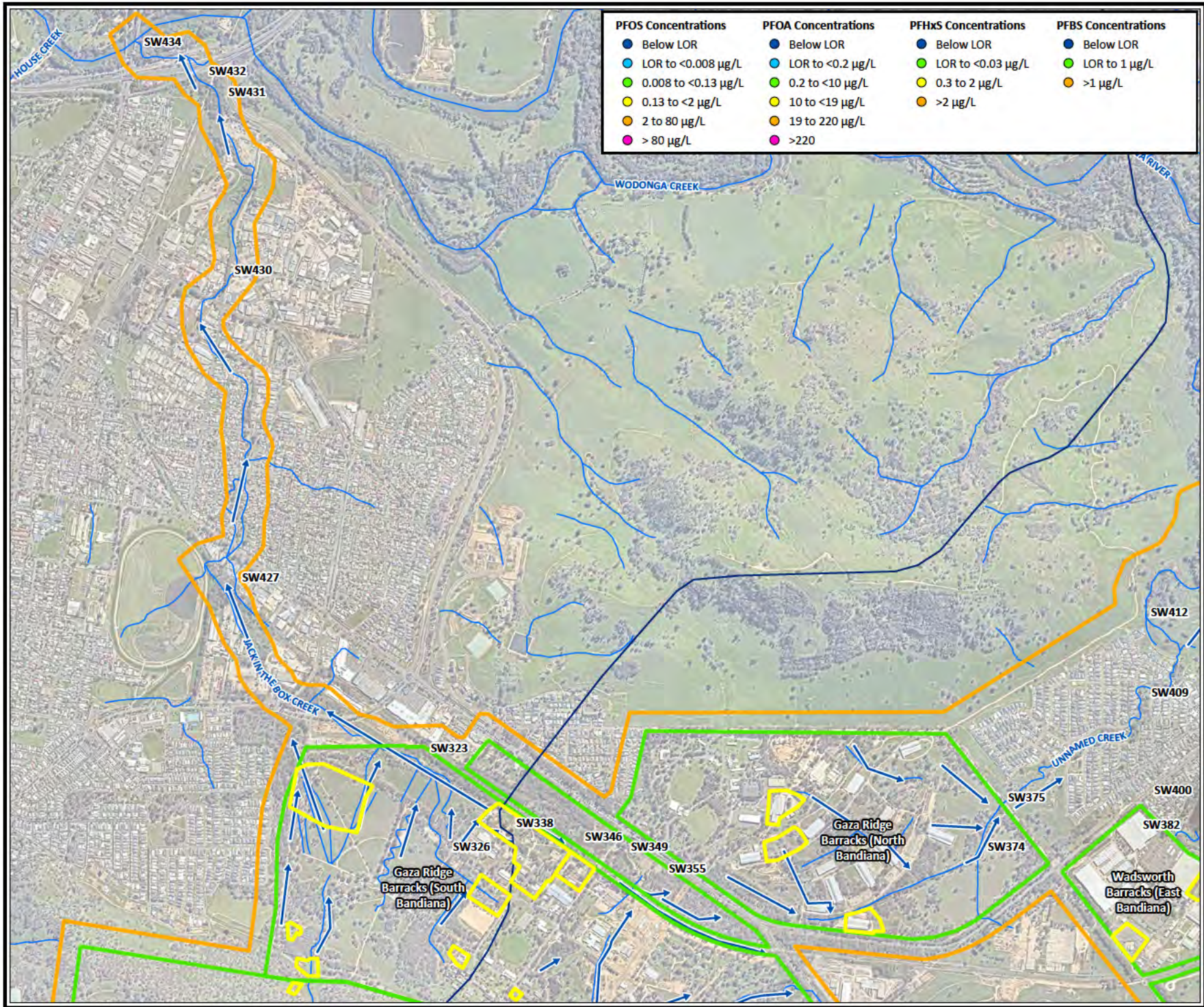
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 8A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:25,000

0 500 1,000
metres

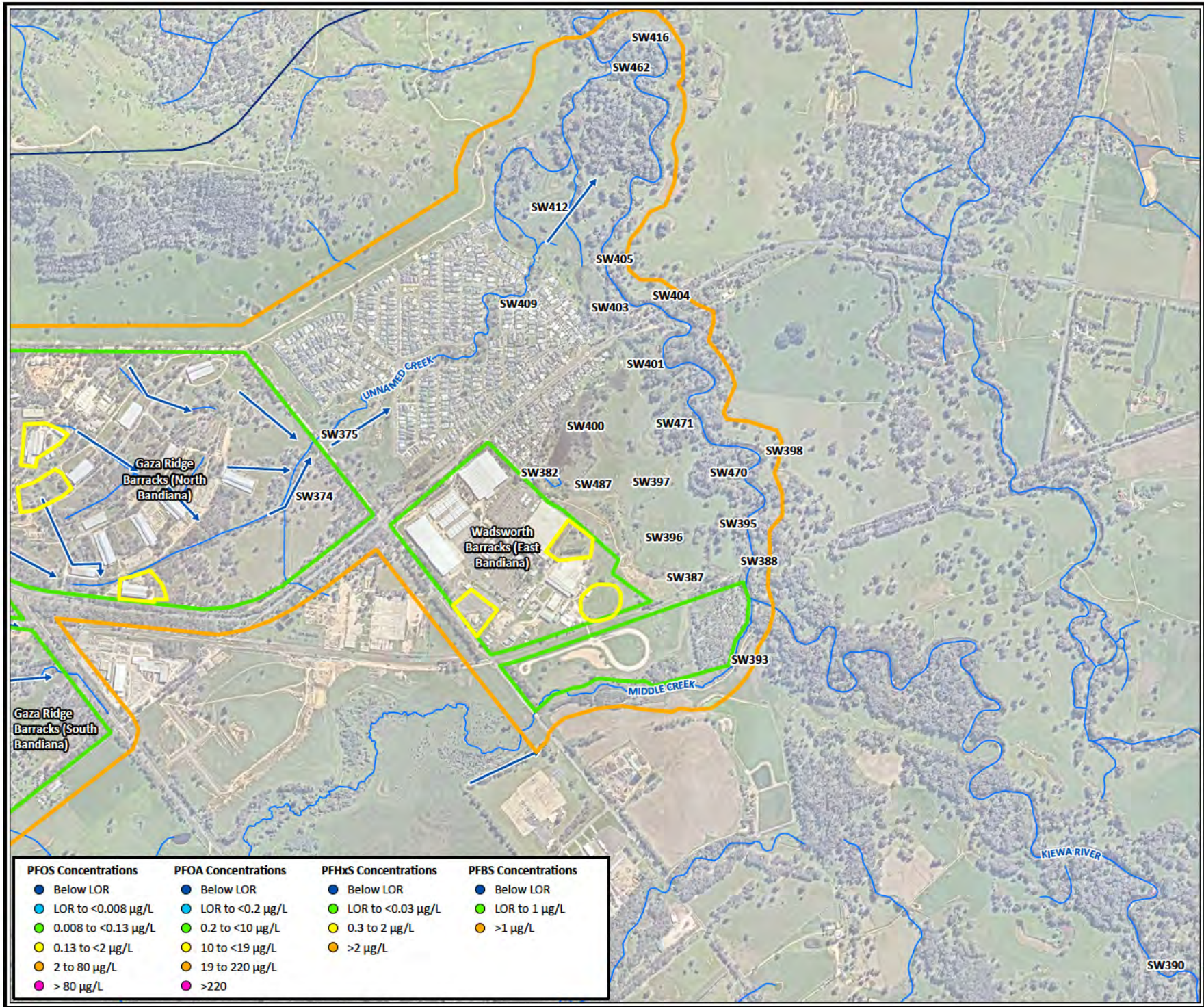
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 8B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:20,000

0 450 900

metres

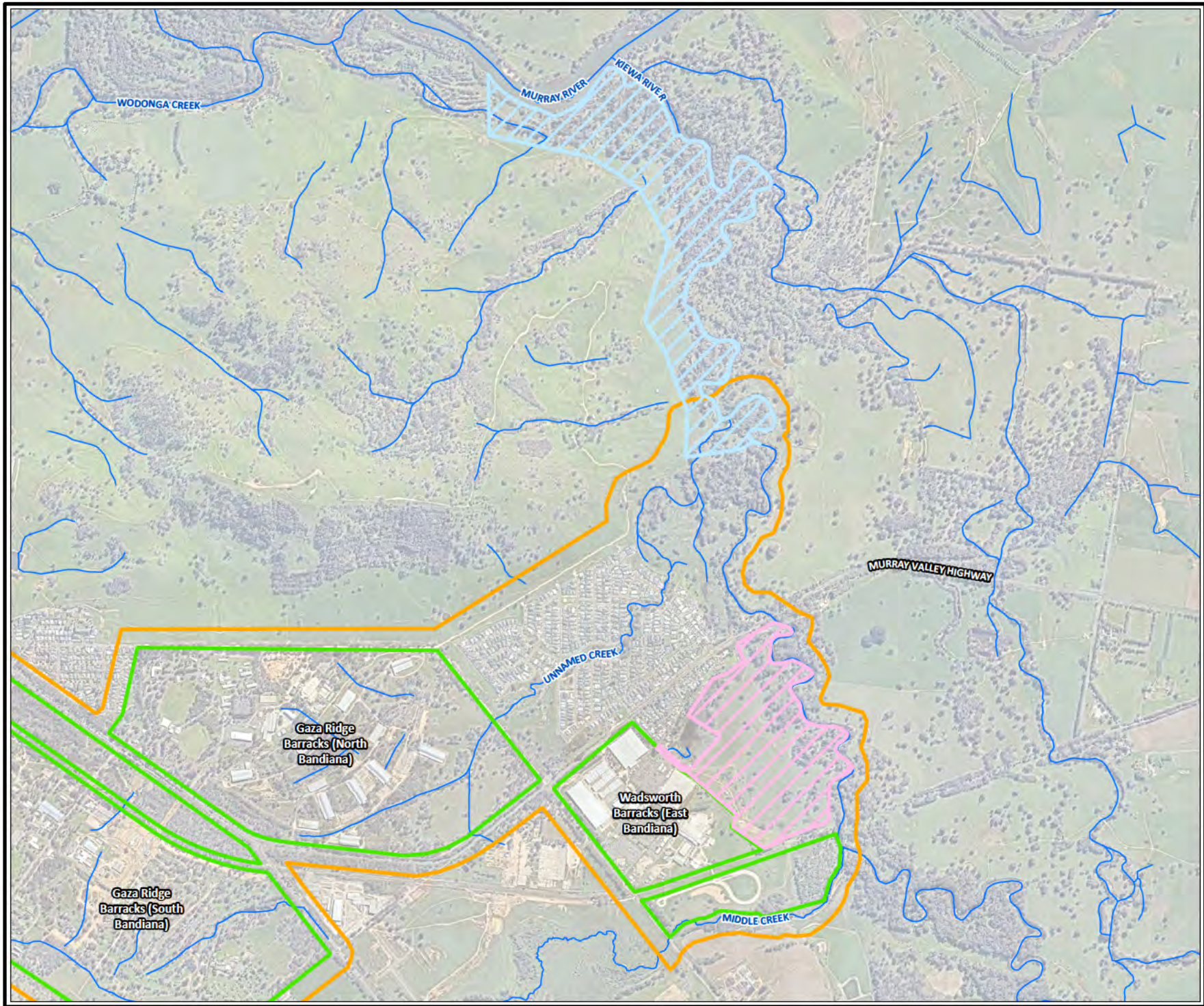
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 8C

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Central Pastoral Area
- Northern Pastoral Area
- Southern Pastoral Area
- Watercourse

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:25,000

0 500 1,000
metres

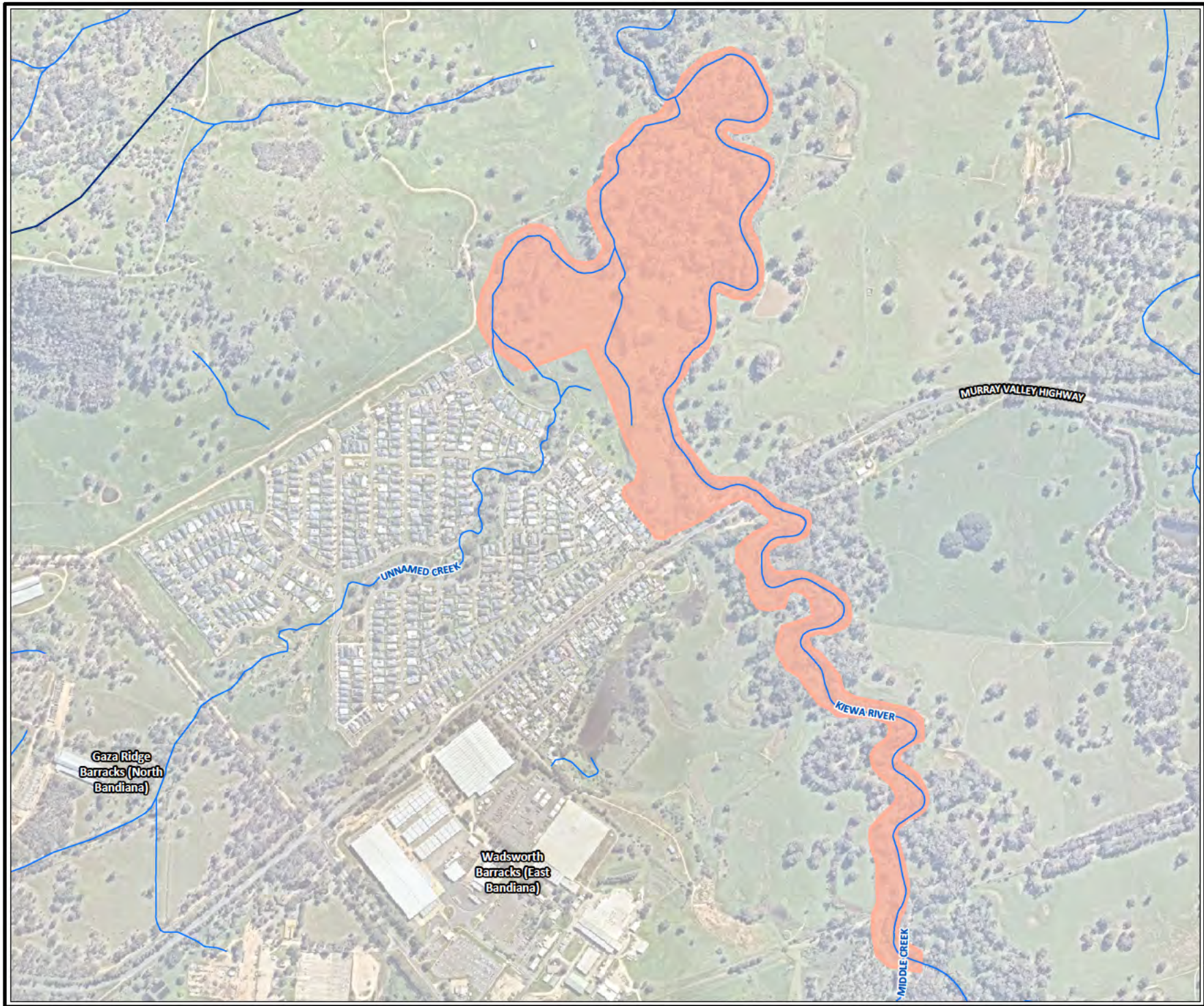
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

PASTORAL AREAS

FIGURE 9

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Carp Advisory Area
- Stormwater Divide
- Watercourse

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[redacted]

Scale 1:12,500

0 250 500
metres

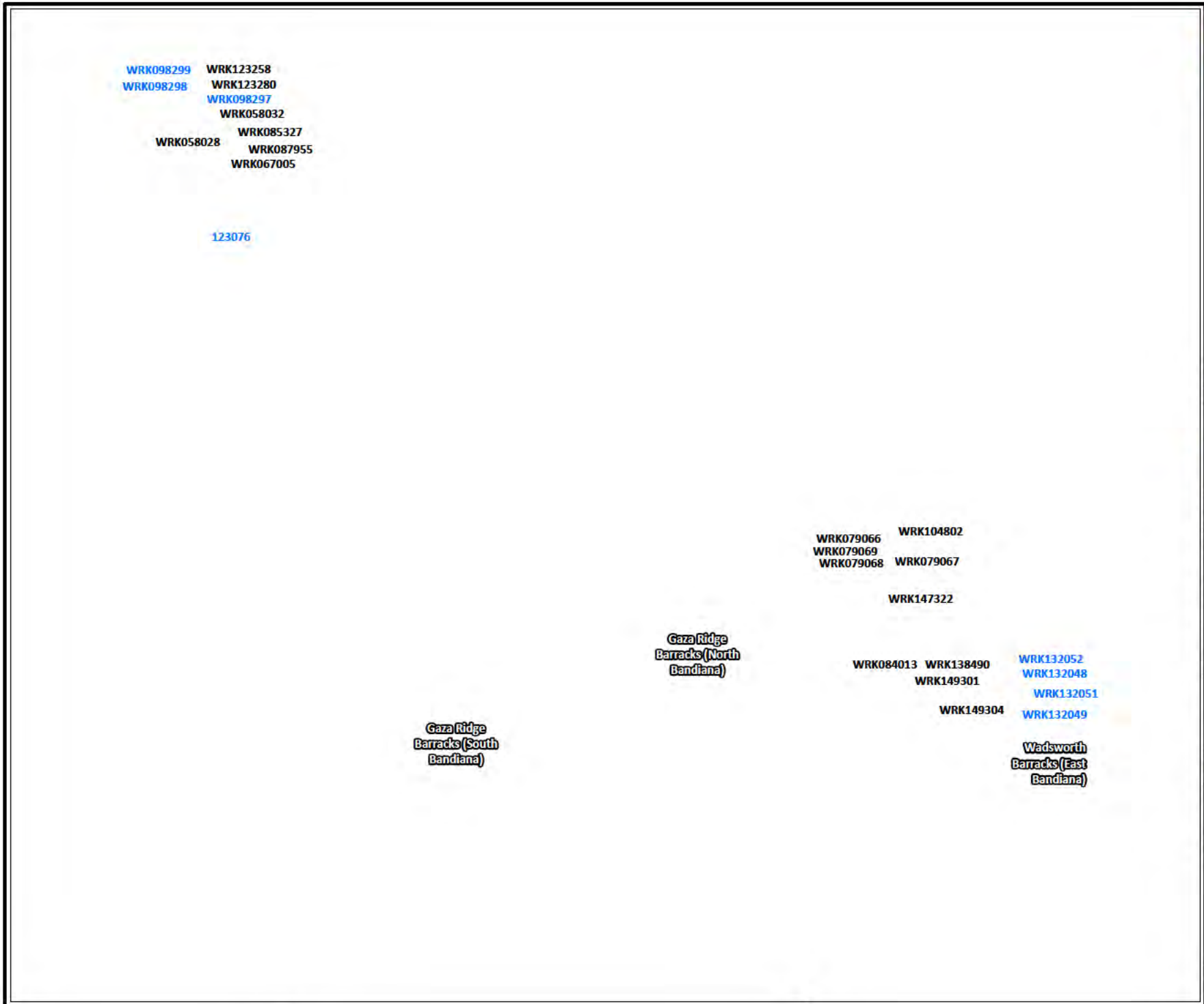
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

EPA PRECAUTIONARY ADVICE AREA

FIGURE 10

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Registered Groundwater Bore
  - Investigation
  - Observation

Note:
Bores displayed is based on available information from Visualising Victoria's Groundwater website

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 29-May-2026

[redacted]

Scale 1:32,000

0 650 1,300
metres

Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

REGISTERED GROUNDWATER BORES WITHIN MANAGEMENT AREA

FIGURE 11

[redacted]

Appendix B Tables

Tables provided include:

- B1 – OMP Groundwater Analytical Summary Table (2025)
- B2 – OMP Surface Water Analytical Summary Table (2025)
- B3 – OMP Water Analytical Summary Table (2021-2025)

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids									
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2					
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9												
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02												
PFAS NEMP 2025 Freshwater 95%																	220					
PFAS NEMP 2025 Freshwater 99%																	19					
PFAS NEMP 2025 Recreational water quality guideline								2		2							10					
Field ID	Location Code	Date	Sample Event	Lab Report Number	Sample Type																	
0445E_MW009_251015	MW009	15 Oct 2025	E9 - October 2025	1282063	Normal	0.70	0.80	5.6	0.38	5.6	<0.01	<0.01	0.20	0.29	1.3	0.19	0.44	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW012_251016	MW012	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	0.22	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW016_251015	MW016	15 Oct 2025	E9 - October 2025	1282063	Normal	0.76	0.82	5.3	0.37	8.9	<0.01	<0.01	0.16	0.27	1.3	0.24	0.47	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW018_251016	MW018	16 Oct 2025	E9 - October 2025	1282063	Normal	0.08	0.09	0.67	0.03	0.82	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW020_251014	MW020	14 Oct 2025	E9 - October 2025	1282063	Normal	0.07	0.09	1.6	0.10	3.1	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW029_251016	MW029	16 Oct 2025	E9 - October 2025	1282063	Normal	0.17	0.15	0.87	0.01	0.46	<0.01	<0.01	0.07	0.20	0.38	0.09	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW034_251016	MW034	16 Oct 2025	E9 - October 2025	1282063	Normal	0.10	0.11	1.2	0.07	2.2	<0.01	<0.01	<0.05	0.05	0.19	0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW035_251015	MW035	15 Oct 2025	E9 - October 2025	1282063	Normal	1.1	1.2	9.6	0.66	8.1	<0.01	<0.01	0.29	0.59	2.2	0.32	0.72	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW042_251015	MW042	15 Oct 2025	E9 - October 2025	1282063	Normal	0.59	0.64	5.3	0.41	5.2	<0.01	<0.01	0.17	0.33	1.2	0.18	0.41	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC202_251015	MW042	15 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.763	0.840	5.17	0.416	6.28	<0.010	<0.010	0.20	0.266	1.25	0.205	0.395	<0.010	<0.010	<0.010	<0.010	<0.010
0445_QC102_251015	MW042	15 Oct 2025	E9 - October 2025	1282063	Field_D	0.66	0.72	4.9	0.34	7.0	<0.01	<0.01	0.18	0.30	1.3	0.19	0.38	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW043_251015	MW043	15 Oct 2025	E9 - October 2025	1282063	Normal	0.99	1.3	9.3	0.69	12	<0.01	<0.01	0.29	0.52	2.0	0.30	0.69	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW046_D_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Normal	0.09	0.09	1.3	0.07	2.4	<0.01	<0.01	<0.05	0.05	0.18	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW046_I_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Normal	0.08	0.09	1.3	0.07	2.6	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC102_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Field_D	0.10	0.12	1.5	0.07	2.7	<0.01	<0.01	<0.05	0.04	0.22	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC202_251016	MW046	16 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.122	0.146	1.28	0.088	2.27	<0.010	<0.010	<0.05	0.036	0.187	0.021	0.061	<0.010	<0.010	<0.010	<0.010	<0.010
0445S_MW051_251016	MW051	16 Oct 2025	E9 - October 2025	1282063	Normal	0.11	0.06	0.47	0.04	2.4	0.01	<0.01	0.11	0.14	0.26	0.04	0.07	0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW052_251016	MW052	16 Oct 2025	E9 - October 2025	1282063	Normal	0.39	0.43	2.6	0.11	3.4	0.01	<0.01	0.10	0.13	0.63	0.17	0.22	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW056_251016	MW056	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW302_251016	MW302	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW303_251016	MW303	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW304_251017	MW304	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.07	<0.01	0.88	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW305_251017	MW305	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC102_251017	MW305	17 Oct 2025	E9 - October 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC202_251017	MW305	17 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445S_MW307_251017	MW307	17 Oct 2025	E9 - October 2025	1282063	Normal	30	26	140	10	30	<0.01	<0.01	5.5	17	42	8.0	10	0.16	<0.01	<0.01	<0.01	<0.01
0445_QC101_251017	MW307	17 Oct 2025	E9 - October 2025	1282063	Field_D	27	25	130	10	38	<0.01	<0.01	5.5	18	44	7.1	12	0.18	<0.01	<0.01	<0.01	<0.01
0445_QC201_251017	MW307	17 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	24.1	20.7	113	11.1	29.9	<0.010	<0.010	4.69	15.3	37.1	6.54	10.8	0.169	<0.010	<0.010	<0.010	<0.010
0445S_MW311_251017	MW311	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.09	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW312_251017	MW312	17 Oct 2025	E9 - October 2025	1282063	Normal	0.01	0.01	0.09	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW313_251016	MW313	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW315_251017	MW315	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW317_251017	MW317	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.11	0.03	1.1	<0.01	<0.01	<0.05	1.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW319_251016	MW319	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.11	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW321_251016	MW321	16 Oct 2025	E9 - October 2025	1282063	Normal	1.6	3.5	140	33	540	<0.5	<0.01	0.28	0.94	6.7	1.1	8.9	1.00	<0.01	<0.01	<0.01	<0.01
0445S_MW323_251017	MW323	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW329_251017	MW329	17 Oct 2025	E9 - October 2025	1282063	Normal	0.14	0.07	0.30	<0.01	0.05	<0.01	<0.01	<0.05	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW342_251016	MW342	16 Oct 2025	E9 - October 2025	1282063	Normal	0.87	0.86	6.1	0.16	2.6	<0.01	0.05	0.16	0.28	1.2	0.08	0.21	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW343_251015	MW343	15 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.05	2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW344_251016	MW344	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_251016	MW344	16 Oct 2025	E9 - October 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_251016	MW344	16 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445N_MW345_251016	MW345	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	0.15	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW346_251016	MW346	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW350_D_251016	MW350	16 Oct 2025	E9 - October 2025	1282063	Normal	0.04	0.04	0.33	0.02	0.57	<0.01	<0.01	<0.05	0.04	0.08	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW350_S_251016	MW350	16 Oct 2025	E9 - October 2025	1282063	Normal	2.5	4.9	44	5.0	39	0.02	<0.01	1.1	2.5	6.5	1.1	2.9	0.04	<0.01	<0.01	<0.01	<0.01
0445E_MW351_251016	MW351	16 Oct 2025	E9 - October 2025	1282063	Normal	0.005	0.004	0.029	0.001	0.022	<0.001	<0.001	0.006	0.003	0.006	0.002	0.004	<0.001	<0.001	<0.001	<0.001	<0.001
0445E_MW352_251016	MW352	16 Oct 2025	E9 - October 2025	1282063	Normal	0.002	0.002	0.009	<0.001	0.021	<0.001	<0.001	<0.005	0.001	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001
0445E_MW354_251016	MW354	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	0.14	0.01	0.21	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW356_251016	MW356	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.001	<0.001	<0.001	<0.001	<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
0445_MW356_250514	MW356	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW357_250514	MW357	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW357_251016	MW357	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW360_251016	MW360	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.12	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_250514	MW360	14 May 2025	E8 - May 2025	1221064	Field_D	<0.01	<0.01	0.11	0.02	0.19	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_250514	MW360	14 May 2025	E8 - May 2025	MGE0347	Interlab_D	0.022	0.011	0.12	0.017	0.14	-	<0.010	<0.20	0.014	0.014	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445_MW360_250514	MW360	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.11	0.02	0.19	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW361_250514	MW361	14 May 2025	E8 - May 2025	1221064	Normal	0.02	0.02	0.18	0.01	0.10	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW361_251016	MW361	16 Oct 2025	E9 - October 2025	1282063	Normal	0.01	<0.01	0.11	0.01	0.27	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids									
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2					
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9												
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02												
PFAS NEMP 2025 Freshwater 95%																	220					
PFAS NEMP 2025 Freshwater 99%																	19					
PFAS NEMP 2025 Recreational water quality guideline								2		2							10					
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Sample Type**																	
0445E_MW403_251016	MW403	16 Oct 2025	E9 - October 2025	1282063	Normal	7.0	7.8	42	2.8	33	0.03	<0.01	1.9	3.6	12	1.5	2.0	0.04	<0.01	<0.01	<0.01	<0.01
0445E_MW404_251016	MW404	16 Oct 2025	E9 - October 2025	1282063	Normal	8.1	9.0	55	3.4	54	0.12	<0.01	1.9	3.7	11	3.8	4.5	0.04	<0.01	<0.01	<0.01	<0.01
0445_MW411_250514	MW411	14 May 2025	E8 - May 2025	1221064	Normal	0.08	0.08	0.48	0.03	1.0	<0.01	<0.01	<0.05	0.02	0.09	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW411_251015	MW411	15 Oct 2025	E9 - October 2025	1282063	Normal	0.12	0.14	0.84	0.05	1.5	<0.01	<0.01	<0.05	0.04	0.17	0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_251015	MW412	15 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.145	0.157	1.15	0.095	2.99	<0.010	<0.010	<0.05	0.038	0.186	0.037	0.089	<0.010	<0.010	<0.010	<0.010	<0.010
0445_QC101_251015	MW412	15 Oct 2025	E9 - October 2025	1282063	Field_D	0.13	0.14	1.3	0.08	3.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.09	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW412_251015	MW412	15 Oct 2025	E9 - October 2025	1282063	Normal	0.13	0.14	1.2	0.08	3.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW412_250514	MW412	14 May 2025	E8 - May 2025	1221064	Normal	0.13	0.16	1.4	0.09	4.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.11	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW413_251015	MW413	15 Oct 2025	E9 - October 2025	1282063	Normal	0.04	0.05	0.51	0.02	0.51	<0.01	<0.01	<0.05	0.01	0.07	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW414_251015	MW414	15 Oct 2025	E9 - October 2025	1282063	Normal	0.07	0.09	0.87	0.04	1.1	<0.01	<0.01	<0.05	0.03	0.12	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW414_250514	MW414	14 May 2025	E8 - May 2025	1221064	Normal	0.07	0.09	0.91	0.05	1.7	<0.01	<0.01	<0.05	0.02	0.11	0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW415_251015	MW415	15 Oct 2025	E9 - October 2025	1282063	Normal	1.1	1.3	6.4	0.39	4.9	<0.01	<0.01	0.25	0.25	1.6	0.29	0.60	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW415_250514	MW415	14 May 2025	E8 - May 2025	1221064	Normal	0.94	1.1	6.2	0.36	5.4	<0.01	<0.01	0.25	0.39	1.4	0.23	0.49	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW416_251016	MW416	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	0.13	0.02	0.74	<0.01	<0.01	<0.05	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW447_250514	MW447	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.05	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW447_251017	MW447	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	0.01	0.09	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_OTH019_250512	OTH019	12 May 2025	E8 - May 2025	1221064	Normal	0.014	0.024	0.24	0.010	0.12	<0.001	<0.001	0.007	0.001	0.012	0.002	0.007	<0.001	<0.001	<0.001	<0.001	<0.001
0445_OTH019_251013	OTH019	13 Oct 2025	E9 - October 2025	1282063	Normal	0.018	0.032	0.30	0.010	0.15	<0.001	<0.001	0.008	0.003	0.016	0.002	0.007	<0.001	<0.001	<0.001	<0.001	<0.001

Environmental Standards

NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

						PF			PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WADER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
						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						0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)						1																	
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																							
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																							
PFAS NEMP 2025 Freshwater 95%																							
PFAS NEMP 2025 Freshwater 99%																							
PFAS NEMP 2025 Recreational water quality guideline																				2			
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Sample Type**																		
0445E_MW009_251015	MW009	15 Oct 2025	E9 - October 2025	1282063	Normal	0.70	0.80	<0.01	<0.01	0.09	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.2	14.41	-	16
0445E_MW012_251016	MW012	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.32	-	0.4
0445E_MW016_251015	MW016	15 Oct 2025	E9 - October 2025	1282063	Normal	0.76	0.82	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	14.2	17.4	-	19
0445E_MW018_251016	MW018	16 Oct 2025	E9 - October 2025	1282063	Normal	0.08	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.49	1.58	-	1.7
0445E_MW020_251014	MW020	14 Oct 2025	E9 - October 2025	1282063	Normal	0.07	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.7	5.07	-	5.3
0445E_MW029_251016	MW029	16 Oct 2025	E9 - October 2025	1282063	Normal	0.17	0.15	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.33	2.29	-	2.5
0445E_MW034_251016	MW034	16 Oct 2025	E9 - October 2025	1282063	Normal	0.10	0.11	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.4	3.83	-	4.1
0445E_MW035_251015	MW035	15 Oct 2025	E9 - October 2025	1282063	Normal	1.1	1.2	<0.01	<0.01	0.23	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.7	23.15	-	26
0445E_MW042_251015	MW042	15 Oct 2025	E9 - October 2025	1282063	Normal	0.59	0.64	<0.01	<0.01	0.15	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.5	13.53	-	15
0445_QC202_251015	MW042	15 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.763	0.840	<0.010	<0.010	0.155	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	11.4	14.7	<0.010	16.2
0445_QC102_251015	MW042	15 Oct 2025	E9 - October 2025	1282063	Field_D	0.66	0.72	<0.01	<0.01	0.17	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.9	15.08	-	16
0445E_MW043_251015	MW043	15 Oct 2025	E9 - October 2025	1282063	Normal	0.99	1.3	<0.01	<0.01	0.35	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.3	26.44	-	29
0445E_MW046_D_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Normal	0.09	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.7	4.1	-	4.3
0445E_MW046_I_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Normal	0.08	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.9	4.27	-	4.5
0445_QC102_251016	MW046	16 Oct 2025	E9 - October 2025	1282063	Field_D	0.10	0.12	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.2	4.64	-	4.9
0445_QC202_251016	MW046	16 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.122	0.146	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3.55	3.98	<0.010	4.25
0445S_MW051_251016	MW051	16 Oct 2025	E9 - October 2025	1282063	Normal	0.11	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	2.87	3.6	-	3.9
0445E_MW052_251016	MW052	16 Oct 2025	E9 - October 2025	1282063	Normal	0.39	0.43	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	7.64	-	8.3
0445S_MW056_251016	MW056	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445_MW302_251016	MW302	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_MW303_251016	MW303	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445S_MW304_251017	MW304	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.95	0.95	-	1.0
0445S_MW305_251017	MW305	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
0445_QC102_251017	MW305	17 Oct 2025	E9 - October 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445_QC202_251017	MW305	17 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.050	<0.010	<0.100
0445S_MW307_251017	MW307	17 Oct 2025	E9 - October 2025	1282063	Normal	30	26	<0.01	0.23	14	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	170	296.5	-	350
0445_QC101_251017	MW307	17 Oct 2025	E9 - October 2025	1282063	Field_D	27	25	<0.01	0.26	15	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	168	296.6	-	350
0445_QC201_251017	MW307	17 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	24.1	20.7	<0.010	0.223	25.5	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	143	267	<0.010	314
0445S_MW311_251017	MW311	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.18	-	0.2
0445S_MW312_251017	MW312	17 Oct 2025	E9 - October 2025	1282063	Normal	0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.15	-	0.2
0445_MW313_251016	MW313	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445S_MW315_251017	MW315	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.08	-	<0.1
0445S_MW317_251017	MW317	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	2.81	-	2.9
0445E_MW319_251016	MW319	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	0.13	-	0.1
0445S_MW321_251016	MW321	16 Oct 2025	E9 - October 2025	1282063	Normal	1.6	3.5	<0.01	<0.01	0.94	0.62	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	680	701.08	-	740
0445S_MW323_251017	MW323	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445S_MW329_251017	MW329	17 Oct 2025	E9 - October 2025	1282063	Normal	0.14	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.66	-	0.8
0445N_MW342_251016	MW342	16 Oct 2025	E9 - October 2025	1282063	Normal	0.87	0.86	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8.7	11.5	-	13
0445N_MW343_251015	MW343	15 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	2.03	-	2.0
0445N_MW344_251016	MW344	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
0445_QC101_251016	MW344	16 Oct 2025	E9 - October 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
0445_QC201_251016	MW344	16 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.050	<0.010	<0.100
0445N_MW345_251016	MW345	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.21	-	0.2
0445N_MW346_251016	MW346	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
0445E_MW350_D_251016	MW350	16 Oct 2025	E9 - October 2025	1282063	Normal	0.04	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.9	1.1	-	1.2
0445E_MW350_S_251016	MW350	16 Oct 2025	E9 - October 2025	1282063	Normal	2.5	4.9	<0.01	<0.01	2.3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	83	101.9	-	110
0445E_MW351_251016	MW351	16 Oct 2025	E9 - October 2025	1282063	Normal	0.005	0.004	<0.001	<0.001	<0.005	<0.001	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.051	0.077	-	0.084
0445E_MW352_251016	MW352	16 Oct 2025	E9 - October 2025	1282063	Normal	0.002	0.002	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	0.037	-	0.039
0445E_MW354_251016	MW354	16 Oct 2025	E9 - October 2025	1282063	Normal	0.02	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.39	-	0.4
0445N_MW356_251016	MW356	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_MW356_250514	MW356	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_MW357_250514	MW357	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
0445_MW357_251016	MW357	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
0445_MW360_251016	MW360	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	0.26	-	0.3
0445_QC101_250514	MW360	14 May 2025	E8 - May 2025	1221064	Field_D	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.33	-	0.35
0445_QC201_250514	MW360	14 May 2025	E8 - May 2025	MGE0347	Interlab_D	0.022	0.011	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.26	0.32	-	0.35
0445_MW360_250514	MW360	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.36	-	0.38
0445_MW361_250514	MW361	14 May 2025	E8 - May 2025	1221064	Normal	0.02	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.46	-	0.49
0445_MW361_251016	MW361	16 Oct 2025	E9 - October 2025	1282063	Normal	0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.38	0.47	-	0.5

						PF			PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WADER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
						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						0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)						1																	
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																							
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																							
PFAS NEMP 2025 Freshwater 95%																							
PFAS NEMP 2025 Freshwater 99%																							
PFAS NEMP 2025 Recreational water quality guideline																				2			
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Sample Type**																		
0445E_MW403_251016	MW403	16 Oct 2025	E9 - October 2025	1282063	Normal	7.0	7.8	<0.01	<0.01	0.56	0.06	<0.01	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05	75	103.62	-	120
0445E_MW404_251016	MW404	16 Oct 2025	E9 - October 2025	1282063	Normal	8.1	9.0	<0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	109	142.07	-	160
0445_MW411_250514	MW411	14 May 2025	E8 - May 2025	1221064	Normal	0.08	0.08	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.48	1.73	-	1.87
0445_MW411_251015	MW411	15 Oct 2025	E9 - October 2025	1282063	Normal	0.12	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.34	2.76	-	3.0
0445_QC201_251015	MW412	15 Oct 2025	E9 - October 2025	EM2520615	Interlab_D	0.145	0.157	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4.14	4.64	<0.010	4.94
0445_QC101_251015	MW412	15 Oct 2025	E9 - October 2025	1282063	Field_D	0.13	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.6	5.09	-	5.4
0445_MW412_251015	MW412	15 Oct 2025	E9 - October 2025	1282063	Normal	0.13	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.5	4.98	-	5.2
0445_MW412_250514	MW412	14 May 2025	E8 - May 2025	1221064	Normal	0.13	0.16	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.7	6.21	-	6.51
0445_MW413_251015	MW413	15 Oct 2025	E9 - October 2025	1282063	Normal	0.04	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.02	1.16	-	1.2
0445_MW414_251015	MW414	15 Oct 2025	E9 - October 2025	1282063	Normal	0.07	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.97	2.23	-	2.4
0445_MW414_250514	MW414	14 May 2025	E8 - May 2025	1221064	Normal	0.07	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.61	2.86	-	3.02
0445_MW415_251015	MW415	15 Oct 2025	E9 - October 2025	1282063	Normal	1.1	1.3	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.3	15.44	-	17
0445_MW415_250514	MW415	14 May 2025	E8 - May 2025	1221064	Normal	0.94	1.1	<0.01	<0.01	0.10	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.6	15.4	-	17.25
0445S_MW416_251016	MW416	16 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.20	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.87	1.1	-	1.1
0445_MW447_250514	MW447	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
0445_MW447_251017	MW447	17 Oct 2025	E9 - October 2025	1282063	Normal	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.16	-	0.2
0445_OTH019_250512	OTH019	12 May 2025	E8 - May 2025	1221064	Normal	0.014	0.024	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.36	0.403	-	0.442
0445_OTH019_251013	OTH019	13 Oct 2025	E9 - October 2025	1282063	Normal	0.018	0.032	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.45	0.504	-	0.55

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

							PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids									
							Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
							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							0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)							1		0.03		0.008							0.2					
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)											0.9												
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)											0.02												
PFAS NEMP 2025 Freshwater 95%																		220					
PFAS NEMP 2025 Freshwater 99%																		19					
PFAS NEMP 2025 Recreational water quality guideline									2		2							10					
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Location Type**	**Sample Type**																	
0445_SW316_250527	SW316	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.04	<0.01	0.43	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW323_250527	SW323	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.03	0.02	0.16	<0.01	0.73	<0.01	<0.01	<0.05	0.05	0.07	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_250527	SW323	27 May 2025	E8 - May 2025	1226670	SW	Field_D	0.02	0.02	0.21	0.01	1.1	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_250527	SW323	27 May 2025	E8 - May 2025	MGF0019	SW	Interlab_D	0.040	0.024	0.25	0.012	0.88	-	<0.010	<0.050	0.082	0.049	0.039	0.031	0.010	<0.010	<0.010	<0.010	<0.010
0445S_SW323_251017	SW323	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.03	0.02	0.28	0.02	1.4	<0.01	<0.01	<0.05	0.07	0.08	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01
0445_SW324_250527	SW324	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.02	0.01	0.19	<0.01	0.68	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01
0445_SW326_250527	SW326	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_SW326_251017	SW326	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.01	0.02	0.18	<0.01	0.75	<0.01	<0.01	<0.05	0.07	0.05	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW332_250527	SW332	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.01	<0.01	0.03	<0.01	0.03	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW333_250527	SW333	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.36	0.29	1.3	0.08	1.7	<0.01	<0.01	0.05	0.10	0.66	0.06	0.08	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW336_250515	SW336	15 May 2025	E8 - May 2025	1221064	SW	Normal	0.65	1.1	6.9	0.44	15	0.12	0.05	0.93	1.9	5.1	1.6	3.5	0.83	0.38	0.06	<0.01	<0.01
0445_SW338_250515	SW338	15 May 2025	E8 - May 2025	1221064	SW	Normal	0.03	0.03	0.21	0.01	1.0	<0.01	<0.01	<0.05	0.04	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_250515	SW338	15 May 2025	E8 - May 2025	1221064	SW	Field_D	0.03	0.03	0.21	0.01	1.1	<0.01	<0.01	<0.05	0.02	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_250515	SW338	15 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	0.046	0.034	0.24	0.015	0.75	-	<0.010	<0.20	0.039	0.12	0.034	0.042	<0.010	<0.010	<0.010	<0.010	<0.010
0445S_SW338_251016	SW338	16 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.04	0.04	0.33	0.02	1.1	<0.01	<0.01	<0.05	0.04	0.15	0.02	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC103_251016	SW338	16 Oct 2025	E9 - October 2025	1282063	SW	Field_D	0.04	0.04	0.31	0.01	0.96	<0.01	<0.01	<0.05	0.04	0.14	0.02	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC203_251016	SW338	16 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	0.047	0.043	0.278	0.017	1.03	<0.010	<0.010	<0.05	0.034	0.136	0.024	0.046	<0.010	<0.010	<0.010	<0.010	<0.010
0445_SW346_250515	SW346	15 May 2025	E8 - May 2025	1221064	SW	Normal	0.05	0.04	0.26	0.02	1.2	<0.01	<0.01	0.07	0.11	0.10	0.03	0.06	0.02	<0.01	<0.01	<0.01	<0.01
0445S_SW346_251017	SW346	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.06	0.04	0.36	0.02	1.3	<0.01	<0.01	0.07	0.10	0.13	0.05	0.08	0.03	0.01	<0.01	<0.01	<0.01
0445_SW349_250515	SW349	15 May 2025	E8 - May 2025	1221064	SW	Normal	0.05	0.04	0.26	0.02	1.1	<0.01	<0.01	0.06	0.10	0.10	0.04	0.06	0.02	<0.01	<0.01	<0.01	<0.01
0445S_SW349_251017	SW349	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.06	0.04	0.32	0.02	1.2	<0.01	<0.01	0.06	0.10	0.12	0.04	0.07	0.02	<0.01	<0.01	<0.01	<0.01
0445S_SW355_251017	SW355	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.04	<0.01	0.13	<0.01	<0.01	<0.05	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW355_250515	SW355	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.05	<0.01	0.18	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW370_250528	SW370	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW374_250528	SW374	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_SW374_251015	SW374	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.03	<0.01	0.09	<0.01	<0.01	<0.05	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW375_250528	SW375	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_SW375_251015	SW375	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.03	<0.01	0.08	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW382_250515	SW382	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_SW382_251016	SW382	16 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW387_250513	SW387	13 May 2025	E8 - May 2025	1221064	SW	Normal	0.03	0.03	0.25	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC102_250513	SW387	13 May 2025	E8 - May 2025	1221064	SW	Field_D	0.03	0.03	0.25	0.02	0.20	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC202_250513	SW387	13 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	0.046	0.043	0.29	0.019	0.14	-	<0.010	<0.20	<0.010	0.035	0.011	0.013	<0.010	<0.010	<0.010	<0.010	<0.010
0445E_SW387_251015	SW387	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.03	0.03	0.28	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW388_250529	SW388	29 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_SW388_251015	SW388	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.05	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW390_131013	SW390	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.001	<0.001	<0.001	<0.001	<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
0445_SW390_250513	SW390	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.001	<0.001	<0.001	<0.001	<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
0445_SW393_250513	SW393	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW393_251017	SW393	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW395_251015	SW395	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW395_250513	SW395	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.05	<0.01	0.11	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW396_251015	SW396	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.46	0.44	3.2	0.08	1.2	<0.01	<0.01	0.16	0.12	0.44	0.06	0.14	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW397_251015	SW397	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.62	0.65	4.3	0.29	5.5	<0.01	<0.01	0.15	0.23	0.98	0.16	0.38	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW397_250513	SW397	13 May 2025	E8 - May 2025	1221064	SW	Normal	0.70	0.80	4.7	0.38	6.0	<0.01	<0.01	0.19	0.28	1.1	0.19	0.41	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW398_250513	SW398	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW398_251015	SW398	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW400_250528	SW400	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.04	<0.01	0.06	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW400_251015	SW400	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.03	0.03	0.21	0.01	0.27	<0.01	<0.01	<0.05	0.09	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW401_250528	SW401	28 May 2025	E8 - May 2025	1226670	SW	Normal	0.02	0.02	0.12	<0.01	0.13	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW401_251015	SW401	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.02	0.02	0.16	<0.01	0.21	<0.01	<0.01	<0.05	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC103_251015	SW401	15 Oct 2025	E9 - October 2025	1282063	SW	Field_D	0.02	0.02	0.14	<0.01	0.16	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC203_251015	SW401	15 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	0.025	0.025	0.152	<0.010	0.198	<0.010	<0.010	<0.05	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445_SW403_251013	SW403	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.02	0.02	0.13	<0.01	0.19	<0.01	<0.01	<0.05	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_251013	SW403	13 Oct 2025	E9 - October 2025	1282063	SW	Field_D	0.02	0.02	0.14	<0.01	0.26	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_251013	SW403	13 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	0.019	0.023	0.121	<0.010	0.171	<0.010	<0.010	<0.05	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445_SW404_250513	SW404	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW404_251013	SW404	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW405_251013	SW405	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.06	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW409_251013	SW409	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.01	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW409_250513	SW409	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_250513	SW409	13 May 2025	E8 - May 2025	1221064	SW	Field_D	<0.01	<0.01	0.01	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_250513	SW409	13 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	<0.010	<0.010	0.016	<0.010	0.054	-	<0.010	<0.20	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445_SW412_250513	SW412	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW412_251013	SW412	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.03	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW416_250514	SW416	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.001	<0.001	<0.001	<0.001	<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
0445_SW416_251013	SW416	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.001	<0.001	<0.001	<0.001	<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
0445_SW424_250527	SW424	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.03	0.03	0.32	0.02	0.79	<0.01	<0.01	<0.05	0.05	0.08	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW427_250527	SW427	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW427_251015	SW427	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW430_250514	SW430	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

							PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids									
							Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
							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							0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)							1		0.03		0.008							0.2					
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)											0.9												
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)											0.02												
PFAS NEMP 2025 Freshwater 95%																		220					
PFAS NEMP 2025 Freshwater 99%																		19					
PFAS NEMP 2025 Recreational water quality guideline									2		2							10					
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Location Type**	**Sample Type**																	
0445_SW430_251015	SW430	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW431_250514	SW431	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW431_251015	SW431	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW432_250514	SW432	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.01	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW432_251015	SW432	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW434_250514	SW434	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW434_251015	SW434	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW448_250527	SW448	27 May 2025	E8 - May 2025	1226670	SW	Normal	0.14	0.06	0.66	0.03	1.2	<0.01	<0.01	0.14	0.16	0.28	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW462_250528	SW462	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW462_251013	SW462	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW470_251015	SW470	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.02	0.02	0.12	<0.01	0.16	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW470_250528	SW470	28 May 2025	E8 - May 2025	1226670	SW	Normal	0.03	0.02	0.18	<0.01	0.32	<0.01	<0.01	<0.05	0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC101_250528	SW470	28 May 2025	E8 - May 2025	1226670	SW	Field_D	0.03	0.02	0.17	<0.01	0.28	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC201_250528	SW470	28 May 2025	E8 - May 2025	MGF0019	SW	Interlab_D	0.039	0.027	0.23	<0.010	0.33	-	<0.010	<0.050	<0.010	0.012	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
0445_SW471_251015	SW471	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.68	0.55	2.2	0.07	0.81	<0.01	<0.01	<0.05	0.09	0.35	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW487_251015	SW487	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	0.52	0.54	3.8	0.25	4.6	<0.01	<0.01	0.12	0.20	0.86	0.15	0.29	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW487_250513	SW487	13 May 2025	E8 - May 2025	1221064	SW	Normal	0.64	0.78	4.7	0.42	8.3	<0.01	<0.01	0.18	0.26	1.0	0.18	0.40	<0.01	<0.01	<0.01	<0.01	<0.01

Environmental Standards

NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

							PFAS - (n:2) Fluorotelomer Sulfonic Acids					PFAS - Perfluoroalkyl Sulfonamides							PFAS			
							Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
							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							0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																						
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																						
PFAS NEMP 2025 Freshwater 95%																						
PFAS NEMP 2025 Freshwater 99%																						
PFAS NEMP 2025 Recreational water quality guideline																			2			
Field ID	Location Code	Date	Sample Event	Lab Report Number	Location Type	Sample Type																
0445_SW316_250527	SW316	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.47	0.47	-	0.47
0445_SW323_250527	SW323	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.89	1.09	-	1.13
0445_QC101_250527	SW323	27 May 2025	E8 - May 2025	1226670	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.31	1.5	-	1.55
0445_QC201_250527	SW323	27 May 2025	E8 - May 2025	MGF0019	SW	Interlab_D	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	1.1	1.4	-	1.4
0445S_SW323_251017	SW323	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.68	1.92	-	2.0
0445_SW324_250527	SW324	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.87	1.07	-	1.1
0445_SW326_250527	SW326	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
0445S_SW326_251017	SW326	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.93	1.11	-	1.1
0445_SW332_250527	SW332	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.1	-	0.11
0445_SW333_250527	SW333	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3	4.31	-	4.83
0445_SW336_250515	SW336	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	0.58	0.94	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.9	37.1	-	40.28
0445_SW338_250515	SW338	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	1.44	-	1.49
0445_QC101_250515	SW338	15 May 2025	E8 - May 2025	1221064	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.31	1.52	-	1.57
0445_QC201_250515	SW338	15 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.99	1.3	-	1.3
0445S_SW338_251016	SW338	16 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.43	1.73	-	1.8
0445_QC103_251016	SW338	16 Oct 2025	E9 - October 2025	1282063	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.27	1.56	-	1.6
0445_QC203_251016	SW338	16 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1.31	1.60	<0.010	1.66
0445_SW346_250515	SW346	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.46	1.88	-	1.99
0445S_SW346_251017	SW346	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.66	2.15	-	2.3
0445_SW349_250515	SW349	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.36	1.77	-	1.89
0445S_SW349_251017	SW349	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.52	1.97	-	2.1
0445S_SW355_251017	SW355	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.22	-	0.2
0445_SW355_250515	SW355	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.23	0.27	-	0.27
0445_SW370_250528	SW370	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.14	-	0.14
0445_SW374_250528	SW374	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
0445N_SW374_251015	SW374	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.17	-	0.2
0445_SW375_250528	SW375	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
0445N_SW375_251015	SW375	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.15	-	0.2
0445_SW382_250515	SW382	15 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
0445E_SW382_251016	SW382	16 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW387_250513	SW387	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	0.56	-	0.61
0445_QC102_250513	SW387	13 May 2025	E8 - May 2025	1221064	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.45	0.53	-	0.58
0445_QC202_250513	SW387	13 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.43	0.54	-	0.60
0445E_SW387_251015	SW387	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.52	0.6	-	0.7
0445_SW388_250529	SW388	29 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	0.35	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.41	-	0.41
0445E_SW388_251015	SW388	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.12	-	0.1
0445_SW390_131013	SW390	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_SW390_250513	SW390	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_SW393_250513	SW393	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW393_251017	SW393	17 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW395_251015	SW395	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.12	-	0.1
0445_SW395_250513	SW395	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.19	-	0.19
0445_SW396_251015	SW396	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.4	5.78	-	6.5
0445_SW397_251015	SW397	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	9.8	12.32	-	13
0445_SW397_250513	SW397	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.7	13.57	-	15.03
0445_SW398_250513	SW398	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW398_251015	SW398	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW400_250528	SW400	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.11	-	0.11
0445_SW400_251015	SW400	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.48	0.63	-	0.7
0445_SW401_250528	SW401	28 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.25	0.28	-	0.3
0445_SW401_251015	SW401	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.37	0.48	-	0.5
0445_QC103_251015	SW401	15 Oct 2025	E9 - October 2025	1282063	SW	Field_D	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.32	-	0.4
0445_QC203_251015	SW401	15 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.350	0.390	<0.010	0.415
0445_SW403_251013	SW403	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.4	-	0.4
0445_QC101_251013	SW403	13 Oct 2025	E9 - October 2025	1282063	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.44	-	0.5
0445_QC201_251013	SW403	13 Oct 2025	E9 - October 2025	EM2520615	SW	Interlab_D	<0.010	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.292	0.324	<0.010	0.347
0445_SW404_250513	SW404	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW404_251013	SW404	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW405_251013	SW405	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.15	-	0.2
0445_SW409_251013	SW409	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.09	-	<0.1
0445_SW409_250513	SW409	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.09	-	<0.1
0445_QC101_250513	SW409	13 May 2025	E8 - May 2025	1221064	SW	Field_D	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.1	-	0.1
0445_QC201_250513	SW409	13 May 2025	E8 - May 2025	MGE0347	SW	Interlab_D	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.070	0.070	-	<0.010
0445_SW412_250513	SW412	13 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.07	-	<0.1
0445_SW412_251013	SW412	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.11	-	0.1
0445_SW416_250514	SW416	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_SW416_251013	SW416	13 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_SW424_250527	SW424	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.11	1.32	-	1.38
0445_SW427_250527	SW427	27 May 2025	E8 - May 2025	1226670	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	-	<0.1
0445_SW427_251015	SW427	15 Oct 2025	E9 - October 2025	1282063	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.09	-	<0.1
0445_SW430_250514	SW430	14 May 2025	E8 - May 2025	1221064	SW	Normal	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1

								PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
							Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
							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							0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																						
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																						
PFAS NEMP 2025 Freshwater 95%																						
PFAS NEMP 2025 Freshwater 99%																						
PFAS NEMP 2025 Recreational water quality guideline																			2			
Field ID	**Location Code**	**Date**	**Sample Event**	**Lab Report Number**	**Location Type**	**Sample Type**																
0445_SW430_251015	**SW430**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.02**	<0.05	-	<0.1
0445_SW431_250514	**SW431**	**14 May 2025**	**E8 - May 2025**	**1221064**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**	**0.05**	-	<0.1
0445_SW431_251015	**SW431**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**	**0.07**	-	<0.1
0445_SW432_250514	**SW432**	**14 May 2025**	**E8 - May 2025**	**1221064**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.07**	**0.07**	-	<0.1
0445_SW432_251015	**SW432**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.06**	**0.08**	-	<0.1
0445_SW434_250514	**SW434**	**15 May 2025**	**E8 - May 2025**	**1221064**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW434_251015	**SW434**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_SW448_250527	**SW448**	**27 May 2025**	**E8 - May 2025**	**1226670**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.86**	**2.69**	-	**2.95**
0445_SW462_250528	**SW462**	**28 May 2025**	**E8 - May 2025**	**1226670**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.03**	<0.05	-	<0.1
0445_SW462_251013	**SW462**	**13 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.07**	**0.09**	-	<0.1
0445_SW470_251015	**SW470**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.28**	**0.33**	-	**0.4**
0445_SW470_250528	**SW470**	**28 May 2025**	**E8 - May 2025**	**1226670**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.5**	**0.57**	-	**0.6**
0445_QC101_250528	**SW470**	**28 May 2025**	**E8 - May 2025**	**1226670**	**SW**	**Field_D**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.45**	**0.51**	-	**0.54**
0445_QC201_250528	**SW470**	**28 May 2025**	**E8 - May 2025**	**MGF0019**	**SW**	**Interlab_D**	<0.050	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	**0.56**	**0.62**	-	**0.65**
0445_SW471_251015	**SW471**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**3.01**	**4.24**	-	**5.1**
0445_SW487_251015	**SW487**	**15 Oct 2025**	**E9 - October 2025**	**1282063**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**8.4**	**10.54**	-	**12**
0445_SW487_250513	**SW487**	**13 May 2025**	**E8 - May 2025**	**1221064**	**SW**	**Normal**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**13**	**15.66**	-	**17.11**

Environmental Standards

NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
MW009	0445_MW009_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.95	0.86	4.14	0.45	2.67	-	<0.02	0.2	0.34	1.36	0.25	0.43	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_MW009_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.99	1.11	6.19	0.37	3.50	-	<0.02	0.2	0.40	1.32	0.29	0.44	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_MW009_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.82	0.82	5.15	0.32	3.16	-	<0.02	0.2	0.28	1.22	0.20	0.35	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_MW009_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.48	0.53	3.25	0.25	4.07	-	<0.02	<0.1	0.19	0.87	0.14	0.25	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_QC107_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	1.24	1.30	8.35	0.70	8.79	-	<0.02	0.2	0.52	2.31	0.34	0.63	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_QC207_231026	26 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	1.1	1.1	7.8	0.74	9.5	0.01	<0.01	0.30	0.44	1.8	0.31	0.61	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW009	0445_MW009_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	1.35	1.55	10.2	0.81	9.98	-	<0.02	0.3	0.60	2.57	0.38	0.71	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_MW009_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	1.11	1.53	8.71	0.62	6.84	-	<0.02	0.3	0.50	2.06	0.31	0.56	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW009	0445_QC201_241203	03 Dec 2024	E7 - Nov 2024	MFL0268	Interlab_D	0.37	0.30	2.2	0.18	2.5	-	<0.010	<0.050	0.11	0.56	0.10	0.16	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW009	0445E_MW009_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.27	0.44	2.0	0.18	3.2	<0.01	<0.01	0.08	0.12	0.53	0.07	0.13	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW009	0445E_MW009_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.7	0.8	5.6	0.38	5.6	<0.01	<0.01	0.2	0.29	1.3	0.19	0.44	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW012	0445_MW012_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	0.36	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445_MW012_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.02	0.03	0.45	<0.02	0.09	-	<0.02	<0.1	<0.02	0.03	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445_MW012_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	<0.02	0.15	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445_MW012_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.23	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445_MW012_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.24	<0.02	0.17	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445_MW012_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.24	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW012	0445E_MW012_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.01	<0.01	0.09	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW012	0445E_MW012_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.02	0.02	0.22	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW016	0445_MW016_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.40	0.40	3.04	0.25	4.38	-	<0.02	<0.1	0.16	0.68	0.15	0.31	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_MW016_220509	09 May 2022	E2 - May 2022	EM2208649	Normal	0.45	0.42	3.22	0.27	6.14	-	<0.02	<0.1	0.16	0.61	0.16	0.33	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_MW016_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.40	0.42	2.85	0.21	4.93	-	<0.02	<0.1	0.13	0.65	0.14	0.29	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_MW016_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.23	0.22	1.52	0.12	2.38	-	<0.02	<0.1	0.08	0.38	0.08	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_MW016_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.52	0.54	3.66	0.36	6.78	-	<0.02	<0.1	0.19	0.94	0.19	0.37	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_MW016_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.42	0.51	3.27	0.24	4.43	-	<0.02	<0.1	0.17	0.75	0.15	0.29	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW016	0445_QC101_241203	03 Dec 2024	E7 - Nov 2024	1169993	Field_D	0.48	0.60	3.3	0.23	5.0	<0.01	<0.01	0.10	0.18	0.97	0.16	0.34	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW016	0445E_MW016_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.51	0.67	3.9	0.29	6.5	<0.01	<0.01	0.11	0.20	1.1	0.17	0.39	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW016	0445E_MW016_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.76	0.82	5.3	0.37	8.9	<0.01	<0.01	0.16	0.27	1.3	0.24	0.47	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW018	0445_MW018_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.06	0.05	0.35	<0.02	0.32	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445_MW018_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.06	0.05	0.33	<0.02	0.33	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445_MW018_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.02	<0.02	0.10	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445_MW018_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.05	0.04	0.32	<0.02	0.35	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445_MW018_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.09	0.05	0.42	<0.02	0.39	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445_MW018_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.07	0.08	0.52	<0.02	0.46	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW018	0445E_MW018_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.07	0.07	0.53	0.02	0.63	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW018	0445E_MW018_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.08	0.09	0.67	0.03	0.82	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW020	0445_MW020_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.15	0.16	1.84	0.09	1.54	-	<0.02	<0.1	0.05	0.23	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445_MW020_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	0.13	0.15	1.48	0.07	1.29	-	<0.02	<0.1	0.05	0.17	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445_MW020_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.09	0.11	1.27	0.06	1.15	-	<0.02	<0.1	0.03	0.15	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445_MW020_230506	06 May 2023	E4 - May 2023	EM2308015	Normal	0.08	0.10	1.10	0.06	0.93	-	<0.02	<0.1	0.03	0.13	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445_MW020_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.09	0.11	1.78	0.09	1.00	-	<0.02	<0.1	0.04	0.19	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445_MW020_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.08	0.10	1.36	0.06	1.31	-	<0.02	<0.1	0.03	0.17	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW020	0445E_MW020_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.07	0.12	1.7	0.08	1.6	<0.01	<0.01	<0.05	0.04	0.20	0.02	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW020	0445E_MW020_251014	14 Oct 2025	E9 - Oct 2025	1282063	Normal	0.07	0.09	1.6	0.1	3.1	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW029	0445_MW029_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.13	0.13	0.71	0.02	0.44	-	<0.02	<0.1	0.16	0.25	0.08	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445_MW029_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.18	0.14	0.64	<0.02	0.64	-	<0.02	<0.1	0.22	0.29	0.10	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445_MW029_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.06	0.06	0.44	<0.02	0.43	-	<0.02	<0.1	0.07	0.13	0.04	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445_MW029_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.12	0.13	0.57	<0.02	0.46	-	<0.02	<0.1	0.12	0.26	0.07	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445_MW029_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.10	0.10	0.58	<0.02	0.37	-	<0.02	<0.1	0.12	0.25	0.07	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445_MW029_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.06	0.07	0.45	<0.02	0.24	-	<0.02	<0.1	0.05	0.12	0.04	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW029	0445E_MW029_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.07	0.08	0.38	<0.01	0.21	<0.01	<0.01	<0.05	0.12	0.26	0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW029	0445E_MW029_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.17	0.15	0.87	0.01	0.46	<0.01	<0.01	0.07	0.2	0.38	0.09	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW034	0445_MW034_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.26	0.21	1.60	0.13	1.86	-	<0.02	<0.1	0.09	0.34	0.06	0.12	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_QC106_220503	03 May 2022	E2 - May 2022	EM2208381	Field_D	0.13	0.14	1.08	0.07	1.27	-	<0.02	<0.1	0.05	0.16	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_MW034_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	0.14	0.14	1.00	0.08	1.57	-	<0.02	<0.1	0.06	0.16	0.04	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_QC206_220505	05 May 2022	E2 - May 2022	886780	Interlab_D	0.14	0.15	1.2	0.06	2.1	<0.01	<0.01	<0.05	0.05	0.20	0.04	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW034	0445_MW034_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.09	0.09	0.76	0.05	1.17	-	<0.02	<0.1	0.03	0.12	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_QC109_230505	05 May 2023	E4 - May 2023	EM2308015	Field_D	0.05	0.06	0.48	0.03	0.97	-	<0.02	<0.1	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_MW034_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.05	0.06	0.48	0.04	1.02	-	<0.02	<0.1	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_QC209_230505	05 May 2023	E4 - May 2023	987797	Interlab_D	0.05	0.05	0.49	0.04	1.1	<0.01	<0.01	<0.05	0.02	0.07	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW034	0445_MW034_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.04	0.04	0.51	0.04	0.85	-	<0.02	<0.1	<0.02	0.07	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445_MW034_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.05	0.05	0.54	0.04	1.04	-	<0.02	<0.1	0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW034	0445E_MW034_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.05	0.06	0.56	0.04	1.2	<0.01	<0.01	<0.05	0.02	0.09	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW034	0445E_MW034_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.1	0.11	1.2	0.07	2.2	<0.01	<0.01	<0.05	0.05	0.19	0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW035	0445_MW035_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.93	0.87	4.13	0.39	3.32	-	<0.02	0.2	0.34	1.41	0.26	0.45	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445_MW035_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	1.16	1.27	7.38	0.49	5.07	-	<0.02	0.2	0.48	1.62	0.35	0.59	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	Field ID	Date	Sampling Event	Lab Report Number	Sample Type																		
MW035	0445_MW035_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	1.29	1.39	8.51	0.58	5.96	-	<0.02	0.2	0.44	1.98	0.34	0.59	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445_QC106_230505	05 May 2023	E4 - May 2023	EM2308015	Field_D	1.21	1.06	7.35	0.54	7.41	-	<0.02	0.3	0.47	1.68	0.34	0.56	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445_MW035_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	1.07	1.27	7.02	0.56	7.66	-	<0.02	0.2	0.44	1.88	0.30	0.50	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445_QC206_230505	05 May 2023	E4 - May 2023	987797	Interlab_D	1.1	1.1	7.6	0.78	8.3	<0.01	<0.01	0.27	0.39	1.6	0.30	0.65	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW035	0445_MW035_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	1.08	1.24	7.21	0.58	8.75	-	<0.02	0.2	0.40	1.71	0.30	0.53	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445_MW035_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	1.03	1.28	7.32	0.57	8.22	-	<0.02	0.3	0.44	1.73	0.29	0.50	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW035	0445E_MW035_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	1.1	0.98	6.6	0.63	7.2	<0.01	<0.01	0.30	0.54	1.8	0.32	0.73	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW035	0445E_MW035_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	1.1	1.2	9.6	0.66	8.1	<0.01	<0.01	0.29	0.59	2.2	0.32	0.72	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW042	0445_QC104_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	0.99	0.81	5.49	0.38	3.30	-	<0.04	<0.2	0.33	1.52	0.24	0.46	<0.04	<0.04	<0.04	<0.04	<0.04	<0.09
MW042	0445_MW042_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.92	1.13	5.05	0.49	3.61	-	<0.02	0.2	0.35	1.62	0.31	0.49	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	QC204_211111	11 Nov 2021	E1 - Nov 2021	841785	Interlab_D	1.2	0.96	7.0	0.57	4.3	<0.01	<0.01	0.33	0.36	1.9	0.32	0.65	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW042	0445_MW042_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	1.42	1.57	9.35	0.56	6.03	-	<0.02	0.3	0.59	2.02	0.43	0.66	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445_MW042_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	1.29	1.40	8.70	0.59	6.41	-	<0.02	0.2	0.44	2.13	0.34	0.60	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445_MW042_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	1.04	1.00	6.49	0.54	7.12	-	<0.02	0.2	0.40	1.72	0.28	0.48	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445_QC108_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	0.93	1.05	6.48	0.53	7.03	-	<0.02	0.2	0.37	1.59	0.26	0.46	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445_QC208_231026	26 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	0.87	1.1	5.8	0.60	7.4	<0.01	<0.01	0.22	0.33	1.3	0.24	0.45	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW042	0445_MW042_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	1.00	1.08	6.87	0.61	7.94	-	<0.02	0.2	0.40	1.72	0.28	0.50	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445_MW042_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.83	1.03	6.23	0.49	7.36	-	<0.02	0.2	0.38	1.52	0.24	0.43	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW042	0445E_MW042_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	0.69	0.90	4.9	0.40	6.7	<0.01	<0.01	0.19	0.34	1.6	0.21	0.47	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW042	0445E_MW042_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.59	0.64	5.3	0.41	5.2	<0.01	<0.01	0.17	0.33	1.2	0.18	0.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW042	0445_QC202_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.763	0.840	5.17	0.416	6.28	<0.010	<0.010	0.20	0.266	1.25	0.205	0.395	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW042	0445_QC102_251015	15 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.66	0.72	4.9	0.34	7	<0.01	<0.01	0.18	0.3	1.3	0.19	0.38	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW043	0445_MW043_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	1.60	1.73	7.54	0.81	5.33	-	<0.02	0.4	0.61	2.51	0.43	0.76	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445_MW043_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	1.52	1.63	9.65	0.59	6.91	-	<0.02	0.3	0.64	2.04	0.44	0.70	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445_MW043_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	1.14	1.20	7.92	0.54	8.10	-	<0.02	0.2	0.41	1.81	0.31	0.53	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445_MW043_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.75	0.74	4.68	0.40	5.69	-	<0.02	0.1	0.31	1.26	0.21	0.36	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445_MW043_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.70	0.74	4.74	0.46	6.46	-	<0.02	0.1	0.30	1.22	0.20	0.37	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445_MW043_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.66	0.84	5.07	0.42	6.44	-	<0.02	0.2	0.32	1.19	0.20	0.36	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW043	0445E_MW043_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.84	1.1	5.8	0.46	8.2	<0.01	<0.01	0.23	0.44	1.9	0.26	0.56	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW043	0445E_MW043_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.99	1.3	9.3	0.69	12	<0.01	<0.01	0.29	0.52	2	0.3	0.69	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_D	0445_MW046_D_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.40	0.28	2.26	0.19	3.24	-	<0.02	<0.1	0.16	0.52	0.10	0.19	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_MW046_D_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	0.37	0.30	2.09	0.17	2.88	-	<0.02	<0.1	0.14	0.41	0.09	0.16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_MW046_D_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.13	0.13	1.17	0.07	1.60	-	<0.02	<0.1	0.05	0.21	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_MW046_D_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.11	0.15	1.17	0.07	1.65	-	<0.02	<0.1	0.04	0.18	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_MW046_D_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.15	0.17	1.80	0.11	2.46	-	<0.02	<0.1	0.05	0.26	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_MW046_D_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.15	0.18	1.83	0.11	2.35	-	<0.02	<0.1	0.06	0.28	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_D	0445_QC201_241128	28 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	0.14	0.17	1.8	0.096	2.3	-	<0.010	<0.050	0.045	0.26	0.025	0.078	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW046_D	0445E_MW046_D_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.12	0.18	1.6	0.09	2.6	<0.01	<0.01	<0.05	0.06	0.29	0.02	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_D	0445_QC101_241128	28 Nov 2024	E7 - Nov 2024	1166588	Field_D	0.13	0.18	2.0	0.09	2.8	<0.01	<0.01	<0.05	0.06	0.31	0.03	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_D	0445_QC202_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.122	0.146	1.28	0.088	2.27	<0.010	<0.010	<0.05	0.036	0.187	0.021	0.061	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW046_D	0445E_MW046_D_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.09	0.09	1.3	0.07	2.4	<0.01	<0.01	<0.05	0.05	0.18	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_D	0445_QC102_251016	16 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.1	0.12	1.5	0.07	2.7	<0.01	<0.01	<0.05	0.04	0.22	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_I	0445_MW046_I_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.38	0.30	2.30	0.19	2.96	-	<0.02	<0.1	0.15	0.50	0.09	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_MW046_I_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	0.20	0.20	1.42	0.11	2.17	-	<0.02	<0.1	0.08	0.24	0.06	0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_MW046_I_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.13	0.14	1.22	0.08	1.76	-	<0.02	<0.1	0.04	0.20	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_MW046_I_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.12	0.14	1.10	0.07	1.54	-	<0.02	<0.1	0.04	0.19	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_MW046_I_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.15	0.15	1.66	0.10	2.48	-	<0.02	<0.1	0.05	0.26	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_QC108_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.12	0.19	1.95	0.07	1.97	-	<0.02	<0.1	0.06	0.27	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445_QC208_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.14	0.16	1.5	0.08	2.1	<0.01	<0.01	<0.05	0.06	0.24	0.03	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_I	0445_MW046_I_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.13	0.18	1.78	0.11	2.30	-	<0.02	<0.1	0.06	0.26	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW046_I	0445E_MW046_I_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.12	0.18	1.8	0.09	3.2	<0.01	<0.01	<0.05	0.06	0.30	0.03	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW046_I	0445E_MW046_I_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.08	0.09	1.3	0.07	2.6	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW051	0445_MW051_211110	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	0445_QC100_211110	12 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	QC200_211110	10 Nov 2021	E1 - Nov 2021	841785	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW051	0445_MW051_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	0445_QC104_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	0445_QC204_221012	12 Oct 2022	E3 - Oct 2022	932350	Interlab_D	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW051	0445_MW051_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.05	<0.02	0.08	-	<0.02	<0.1	<0.02	0.03	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	0445_MW051_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	<0.02	<0.02	0.07	<0.02	0.09	-	<0.02	<0.1	0.03	0.05	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW051	0445S_MW051_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	0.24	0.13	0.71	0.06	3.0	0.01	<0.01	0.25	0.30	0.60	0.07	0.15	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
MW051	0445S_MW051_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.11	0.06	0.47	0.04	2.4	0.01	<0.01	0.11	0.14	0.26	0.04	0.07	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW052	0445_MW052_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.96	0.86	3.81	0.50	7.23	-	<0.02	0.3	0.39	1.60	0.36	0.67	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	1.31	1.20	5.08	0.32	9.31	-	<0.02	0.3	0.50	2.14	0.61	0.63	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.60	0.57	3.30	0.32	10.4	-	<0.02	0.2	0.20	1.04	0.28	0.46	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	1.80	1.93	8.79	0.47	10.7	-	0.04	0.4	0.54	2.92	0.72	0.81	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
MW052	0445_MW052_231127	27 Nov 2023	E5 - Oct 2023	EM2321318	Normal	1.37	1.44	7.54	0.50	8.59	-	<0.02	0.3	0.42	2.12	0.54	0.78	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	1.51	1.72	9.49	0.68	10.4	-	<0.02	0.3	0.44	2.33	0.61	0.92	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	15.1	19.5	143	6.87	31.2	-	0.03	2.0	4.00	23.4	5.31	10.6	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445_MW052_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	2.76	3.13	14.1	0.40	6.04	-	<0.02	0.5	0.79	4.29	0.82	0.88	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW052	0445E_MW052_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.48	0.52	2.5	0.13	3.5	<0.01	<0.01	0.10	0.16	1.1	0.21	0.23	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW052	0445E_MW052_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.39	0.43	2.6	0.11	3.4	0.01	<0.01	0.1	0.13	0.63	0.17	0.22	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW056	0445_MW056_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.18	0.19	0.80	0.07	0.70	-	<0.02	<0.1	0.02	0.14	0.07	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_QC105_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	0.05	0.05	0.23	<0.02	0.30	-	<0.02	<0.1	<0.02	0.03	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_MW056_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.09	0.10	0.42	0.03	0.66	-	<0.02	<0.1	<0.02	0.07	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_QC205_221012	12 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.12	0.12	0.57	0.04	0.84	<0.01	<0.01	<0.05	0.02	0.09	0.04	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW056	0445_MW056_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_MW056_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.13	0.16	0.70	0.04	0.53	-	<0.02	<0.1	0.03	0.14	0.06	0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_QC109_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.14	0.16	0.72	0.03	0.53	-	<0.02	<0.1	0.03	0.14	0.06	0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW056	0445_QC209_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.15	0.14	0.55	0.03	0.59	<0.01	<0.01	<0.05	0.03	0.13	0.06	0.12	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW056	0445S_MW056_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	0.06	0.09	0.46	0.03	1.4	<0.01	<0.01	<0.05	0.02	0.09	0.03	0.10	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW302	0445_MW302_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW303	0445_MW303_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW304	0445_MW304_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_MW304_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.09	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_QC107_220504	04 May 2022	E2 - May 2022	EM2208381	Field_D	<0.02	<0.02	0.05	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_QC207_220504	04 May 2022	E2 - May 2022	886780	Interlab_D	<0.01	<0.01	0.06	<0.01	0.10	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW304	0445_MW304_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.05	0.03	0.32	0.06	0.30	-	<0.02	<0.1	<0.02	0.05	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_QC105_230504	04 May 2023	E4 - May 2023	EM2308015	Field_D	0.02	<0.02	0.14	<0.02	0.10	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_MW304_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.03	<0.02	0.20	<0.02	0.14	-	<0.02	<0.1	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_QC205_230504	04 May 2023	E4 - May 2023	987797	Interlab_D	0.02	0.02	0.17	0.02	0.15	<0.01	<0.01	<0.05	0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW304	0445_MW304_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445_MW304_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.03	0.04	0.32	0.04	0.19	-	<0.02	<0.1	0.03	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW304	0445S_MW304_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.14	<0.01	1.6	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW304	0445S_MW304_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.07	<0.01	0.88	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW305	0445S_MW305_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW305	0445_QC102_251017	17 Oct 2025	E9 - Oct 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW305	0445_QC202_251017	17 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW307	0445_MW307_211110	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	87.7	61.2	352	28.4	70.4	-	<0.04	7.1	57.5	140	23.0	34.2	0.48	<0.04	<0.04	<0.04	<0.04	<0.09
MW307	0445_QC101_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	Field_D	110	85.9	486	38.6	91.0	-	<0.05	12.4	71.0	168	32.1	44.8	0.60	<0.05	<0.05	<0.05	<0.05	<0.13
MW307	0445_MW307_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	Normal	107	97.6	496	41.2	94.3	-	<0.05	13.4	71.3	170	31.5	44.2	0.60	<0.05	<0.05	<0.05	<0.05	<0.14
MW307	0445_QC201_211222	22 Dec 2021	E1 - Nov 2021	852797	Interlab_D	180	120	790	49	160	<0.01	<0.01	37	89	240	42	66	0.53	<0.01	<0.01	<0.01	<0.01	<0.01
MW307	0445_MW307_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	119	115	555	55.6	88.8	-	<0.04	16.1	72.7	221	35.5	49.4	0.62	<0.04	<0.04	<0.04	<0.04	<0.09
MW307	0445_MW307_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	10.9	10.6	58.3	5.98	13.7	-	<0.02	0.9	7.32	17.3	3.06	4.88	0.07	<0.02	<0.02	<0.02	<0.02	<0.05
MW307	0445_MW307_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	76.5	63.1	370	36.3	84.1	-	<0.04	10.0	50.2	122	22.3	35.9	0.50	<0.04	<0.04	<0.04	<0.04	<0.09
MW307	0445_MW307_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	91.3	85.6	479	40.4	101	-	<0.04	9.7	60.6	143	28.1	42.2	0.66	<0.04	<0.04	<0.04	<0.04	<0.09
MW307	0445_MW307_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	22.5	21.9	143	9.86	29.1	-	<0.02	5.2	19.4	45.2	7.48	11.7	0.19	<0.02	<0.02	<0.02	<0.02	<0.05
MW307	0445S_MW307_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	110	110	610	44	170	<0.125	<0.125	21	84	200	32	55	0.93	<0.01	<0.01	<0.01	<0.01	<0.01
MW307	0445_QC201_251017	17 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	24.1	20.7	113	11.1	29.9	<0.010	<0.010	4.69	15.3	37.1	6.54	10.8	0.169	<0.010	<0.010	<0.010	<0.010	<0.010
MW307	0445S_MW307_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	30	26	140	10	30	<0.01	<0.01	5.5	17	42	8	10	0.16	<0.01	<0.01	<0.01	<0.01	<0.01
MW307	0445_QC101_251017	17 Oct 2025	E9 - Oct 2025	1282063	Field_D	27	25	130	10	38	<0.01	<0.01	5.5	18	44	7.1	12	0.18	<0.01	<0.01	<0.01	<0.01	<0.01
MW311	0445_MW311_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW311	0445_MW311_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW311	0445_MW311_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW311	0445S_MW311_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW311	0445S_MW311_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.09	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW312	0445_MW312_21110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	0.02	0.14	<0.02	0.02	-	<0.02	<0.1	<0.02	0.04	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445_MW312_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.10	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445_MW312_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.11	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445_MW312_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.02	0.04	0.24	0.02	0.12	-	<0.02	<0.1	<0.02	0.04	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445_MW312_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.03	0.03	0.24	<0.02	0.13	-	<0.02	<0.1	<0.02	0.04	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445_MW312_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.02	0.03	0.25	0.02	0.12	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW312	0445S_MW312_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.01	0.02	0.10	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW312	0445S_MW312_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.01	0.01	0.09	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW313	0445_MW313_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW313	0445_MW313_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW313	0445_MW313_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW313	0445_MW313_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW313	0445_MW313_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW315	0445_MW315_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW315	0445S_MW315_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW315	0445S_MW315_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
MW317	0445S_MW317_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW317	0445S_MW317_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.11	0.03	1.1	<0.01	<0.01	<0.05	1.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445_MW319_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	0.09	<0.02	0.28	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	0445_QC101_211110	12 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	<0.02	<0.02	0.08	<0.02	0.31	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	QC201_211110	10 Nov 2021	E1 - Nov 2021	841785	Interlab_D	0.01	<0.01	0.12	<0.01	0.39	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445_MW319_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.06	<0.02	0.20	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	0445_QC203_221012	12 Oct 2022	E3 - Oct 2022	932350	Interlab_D	<0.01	<0.01	0.06	<0.01	0.22	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445_QC103_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	<0.02	<0.02	0.07	<0.02	0.24	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	0445_QC206_231025	25 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	<0.01	<0.01	0.03	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445_QC106_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	0.04	<0.02	0.17	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	0445_MW319_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.04	<0.02	0.18	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW319	0445_QC101_241129	29 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	<0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445_QC201_241129	29 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	0.026	<0.010	0.13	-	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW319	0445S_MW319_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.03	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW319	0445E_MW319_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.11	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW321	0445_MW321_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	0.19	0.04	0.73	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW321	0445_QC202_221012	12 Oct 2022	E3 - Oct 2022	932350	Interlab_D	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW321	0445_QC102_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	<0.02	<0.02	0.15	0.03	0.55	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW321	0445_MW321_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.17	0.03	0.58	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW321	0445_QC101_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Field_D	2.28	5.21	115	31.7	455	-	<0.02	0.3	0.93	5.78	1.32	7.68	1.09	<0.02	<0.02	<0.02	<0.02	<0.05
MW321	0445_QC201_231128	28 Nov 2023	E5 - Oct 2023	1049115	Interlab_D	1.8	2.6	99	20	480	<1	<1	0.28	0.86	5.0	1.2	5.8	<1	<1	<0.01	<0.01	<0.01	<0.01
MW321	0445_MW321_231127	27 Nov 2023	E5 - Oct 2023	EM2321318	Normal	2.38	3.91	117	31.4	491	-	<0.02	0.3	0.96	6.08	1.42	9.16	1.27	<0.02	<0.02	<0.02	<0.02	<0.05
MW321	0445_MW321_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	3.89	8.84	164	40.6	820	-	<0.02	0.4	1.62	11.0	2.14	11.2	2.24	0.04	<0.02	<0.02	<0.02	<0.05
MW321	0445_MW321_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	3.40	6.08	195	59.5	983	-	<0.04	0.2	1.66	11.2	2.18	11.6	1.96	<0.04	<0.04	<0.04	<0.04	<0.09
MW321	0445S_MW321_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	3.4	5.6	250	47	1,100	<0.625	<0.625	0.34	1.1	12	2.2	15	1.9	<0.625	<0.01	<0.01	<0.01	<0.01
MW321	0445S_MW321_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	1.6	3.5	140	33	540	<0.5	<0.01	0.28	0.94	6.7	1.1	8.9	1	<0.01	<0.01	<0.01	<0.01	<0.01
MW323	0445_MW323_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW323	0445_MW323_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW323	0445_MW323_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW323	0445S_MW323_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW323	0445S_MW323_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW325	0445_MW325_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW326	0445_MW326_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.46	0.11	0.26	<0.02	0.03	-	<0.02	<0.1	0.05	0.10	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW328	0445_MW328_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.05	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW328	0445_MW328_221014_DUP	14 Nov 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW329	0445_MW329_21110	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.04	0.03	0.14	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW329	0445_QC102_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	0.04	0.03	0.14	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW329	QC202_211110	10 Nov 2021	E1 - Nov 2021	841785	Interlab_D	0.04	0.03	0.16	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW329	0445_MW329_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.20	0.10	0.34	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW329	0445_MW329_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.14	0.09	0.36	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW329	0445S_MW329_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	0.10	0.08	0.31	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW329	0445S_MW329_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.14	0.07	0.3	<0.01	0.05	<0.01	<0.01	<0.05	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW342	0445_MW342_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	Normal	0.94	0.78	5.00	0.36	4.15	-	<0.02	0.1	0.24	1.10	0.08	0.20	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_QC100_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	Field_D	0.89	0.70	5.11	0.37	4.37	-	<0.02	0.1	0.24	1.13	0.07	0.21	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_QC200_211222	22 Dec 2021	E1 - Nov 2021	852797	Interlab_D	1.1	1.0	6.8	0.41	5.8	<0.01	<0.01	0.20	0.30	1.4	0.09	0.32	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW342	0445_MW342_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.88	0.53	4.31	0.36	9.21	-	<0.02	<0.1	0.24	0.95	0.08	0.22	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_QC111_220506	06 May 2022	E2 - May 2022	EM2208381	Field_D	0.74	0.53	4.61	0.26	3.97	-	<0.02	<0.1	0.22	0.75	0.08	0.17	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_MW342_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	0.68	0.51	4.59	0.26	4.00	-	<0.02	<0.1	0.22	0.81	0.07	0.16	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_QC211_220506	06 May 2022	E2 - May 2022	886780	Interlab_D	0.91	0.75	6.4	0.28	4.9	<0.01	<0.01	0.14	0.19	0.88	0.07	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW342	0445_MW342_221015	15 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.46	0.39	2.89	0.14	3.04	-	<0.02	<0.1	0.12	0.58	0.04	0.11	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_MW342_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.35	0.37	2.25	0.11	2.56	-	<0.02	<0.1	0.09	0.39	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_MW342_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.30	0.30	2.28	0.11	3.37	-	<0.02	<0.1	0.08	0.36	0.03	0.09	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445_MW342_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.32	0.28	2.17	0.11	3.04	-	<0.02	<0.1	0.10	0.42	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW342	0445N_MW342_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	0.96	0.97	8.0	0.29	3.6	<0.01	<0.01	<0.05	0.32	1.5	0.10	0.30	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW342	0445N_MW342_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.87	0.86	6.1	0.16	2.6	<0.01	0.05	0.16	0.28	1.2	0.08	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW343	0445N_MW343_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.05	2	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW344	0445N_MW344_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW344	0445_QC101_251016	16 Oct 2025	E9 - Oct 2025	1282063	Field_D	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW344	0445_QC201_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.05	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW345	0445_MW345_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.06	0.05	0.23	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445_MW345_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	0.04	0.03	0.21	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445_MW345_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.05	0.04	0.24	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445_MW345_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.05	0.04	0.23	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445_MW345_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.06	0.04	0.24	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445_MW345_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.02	0.02	0.14	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW345	0445N_MW345_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.03	0.04	0.21	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	Field ID	Date	Sampling Event	Lab Report Number	Sample Type																		
MW345	0445N_MW345_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.02	0.02	0.15	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW346	0445_MW346_211117	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445_MW346_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445_MW346_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.07	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445_MW346_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445_MW346_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445_MW346_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.02	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW346	0445N_MW346_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW346	0445N_MW346_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_D	0445_MW350_D_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.04	0.03	0.27	0.02	0.33	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_MW350_D_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	0.10	0.04	0.25	0.02	0.28	-	<0.02	<0.1	<0.02	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_MW350_D_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.10	0.04	0.30	0.02	0.32	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_MW350_D_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.04	0.04	0.29	0.03	0.44	-	<0.02	<0.1	<0.02	0.07	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_MW350_D_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.07	0.03	0.30	0.02	0.43	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_QC205_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.03	0.03	0.20	0.02	0.35	<0.01	<0.01	<0.05	0.01	0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_D	0445_QC105_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.06	0.03	0.27	<0.02	0.36	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445_MW350_D_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.04	0.03	0.26	0.02	0.38	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_D	0445E_MW350_D_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	0.05	0.05	0.32	0.02	0.52	<0.01	<0.01	<0.05	0.02	0.09	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_D	0445E_MW350_D_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.04	0.04	0.33	0.02	0.57	<0.01	<0.01	<0.05	0.04	0.08	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_S	0445_QC105_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	3.65	2.70	33.7	2.91	15.2	-	<0.04	0.9	1.45	5.86	1.24	3.06	<0.04	<0.04	<0.04	<0.04	<0.04	<0.09
MW350_S	0445_MW350_S_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	3.62	2.60	33.4	2.86	15.3	-	<0.04	0.6	1.39	5.72	1.16	3.05	<0.04	<0.04	<0.04	<0.04	<0.04	<0.09
MW350_S	QC205_211111	11 Nov 2021	E1 - Nov 2021	841785	Interlab_D	4.0	5.0	50	2.8	19	<0.01	<0.01	0.95	1.3	7.0	1.1	2.8	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_S	0445_MW350_S_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	2.43	2.69	25.6	2.32	17.8	-	<0.02	0.8	1.71	4.45	1.33	2.67	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_S	0445_MW350_S_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	1.37	1.89	17.9	1.93	19.3	-	<0.02	0.4	0.99	3.51	0.62	1.74	0.03	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_S	0445_MW350_S_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	2.80	4.12	53.3	4.94	45.5	-	<0.02	0.9	2.53	8.28	1.55	5.20	0.05	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_S	0445_MW350_S_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	2.64	4.52	71.4	5.47	69.1	-	<0.02	1.0	2.58	9.98	1.54	5.64	0.06	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_S	0445_MW350_S_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	3.30	5.30	73.2	2.98	40.7	-	<0.02	1.3	3.25	11.5	1.72	4.86	0.05	<0.02	<0.02	<0.02	<0.02	<0.05
MW350_S	0445E_MW350_S_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	2.5	3.7	45	2.0	28	<0.01	<0.01	1.3	2.7	11	1.3	4.5	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
MW350_S	0445E_MW350_S_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	2.5	4.9	44	5	39	0.02	<0.01	1.1	2.5	6.5	1.1	2.9	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
MW351	0445_MW351_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_MW351_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_QC100_220503	03 May 2022	E2 - May 2022	EM2208381	Field_D	<0.02	<0.02	0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_QC200_220503	03 May 2022	E2 - May 2022	886780	Interlab_D	<0.01	<0.01	0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW351	0445_MW351_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_QC107_230505	05 May 2023	E4 - May 2023	EM2308015	Field_D	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_QC207_230505	05 May 2023	E4 - May 2023	987797	Interlab_D	<0.01	<0.01	0.02	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW351	0445_MW351_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.02	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_MW351_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_MW351_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.04	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW351	0445_QC202_241128	28 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	0.026	<0.010	0.017	-	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW351	0445_QC102_241128	28 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW351	0445E_MW351_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.007	0.005	0.027	<0.001	0.020	<0.001	<0.001	0.005	0.003	0.007	0.002	0.006	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW351	0445E_MW351_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.005	0.004	0.029	0.001	0.022	<0.001	<0.001	0.006	0.003	0.006	0.002	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW352	0445_MW352_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445_MW352_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445_MW352_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445_MW352_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445_MW352_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445_MW352_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW352	0445E_MW352_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.002	0.002	0.008	<0.001	0.016	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW352	0445E_MW352_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.002	0.002	0.009	<0.001	0.021	<0.001	<0.001	<0.005	0.001	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
MW353	0445_MW353_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.46	0.43	3.20	0.26	3.85	-	<0.02	<0.1	0.13	0.53	0.11	0.22	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445_MW353_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.40	0.40	2.83	0.21	3.10	-	<0.02	<0.1	0.11	0.37	0.09	0.18	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445_MW353_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.30	0.34	2.40	0.16	2.54	-	<0.02	<0.1	0.06	0.35	0.06	0.14	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445_MW353_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	1.34	1.50	6.78	0.35	3.28	-	<0.02	0.2	0.34	1.56	0.25	0.33	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445_MW353_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	2.97	2.43	14.2	0.81	4.60	-	<0.02	0.2	0.89	2.42	0.56	0.67	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445_MW353_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	1.61	1.10	4.64	0.10	0.29	-	<0.02	0.3	0.47	1.85	0.26	0.23	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW353	0445E_MW353_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	5.5	6.0	31	1.1	12	<0.01	<0.01	1.1	1.1	5.1	1.1	1.4	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW354	0445_MW354_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.04	0.03	0.23	<0.02	0.15	-	<0.02	<0.1	<0.02	0.04	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_MW354_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	0.03	<0.02	0.10	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_MW354_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.07	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_MW354_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.06	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_QC209_231026	26 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW354	0445_MW354_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.03	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_QC109_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	0.04	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445_MW354_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.02	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
MW354	0445_QC207_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW354	0445_QC107_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	<0.02	<0.02	0.03	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW354	0445E_MW354_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.01	0.09	<0.01	0.17	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW354	0445E_MW354_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.02	0.02	0.14	0.01	0.21	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW356	0445_MW356_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW356	0445_MW356_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.02	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW356	0445_MW356_230505	05 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW356	0445_MW356_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW356	0445_MW356_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW356	0445_MW356_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW356	0445_MW356_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW356	0445N_MW356_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.001	<0.001	<0.001	<0.001	<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
MW357	0445_MW357_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	0.04	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.03	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_221012	12 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.04	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.04	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.03	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW357	0445_MW357_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW357	0445_MW357_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.03	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW357	0445_MW357_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW359	0445_MW359_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	<0.02	<0.02	0.15	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	0.09	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.06	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.09	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.06	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.05	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	0.03	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW360	0445_MW360_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	0.01	0.15	0.01	0.16	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW360	0445_QC201_250514	14 May 2025	E8 - May 2025	MGE0347	Interlab_D	0.022	0.011	0.12	0.017	0.14	-	<0.010	<0.20	0.014	0.014	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW360	0445_MW360_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.11	0.02	0.19	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW360	0445_QC101_250514	14 May 2025	E8 - May 2025	1221064	Field_D	<0.01	<0.01	0.11	0.02	0.19	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW360	0445_MW360_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.12	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW361	0445_MW361_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	0.13	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	0.02	<0.02	0.14	<0.02	0.07	-	<0.02	<0.10	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.03	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.04	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.07	<0.02	0.10	-	<0.02	<0.1	<0.02	0.03	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	0.02	0.20	<0.02	0.10	-	<0.02	<0.1	0.04	0.05	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW361	0445_MW361_241128	28 Nov 2024	E7 - Nov 2024	1166588	Normal	0.01	<0.01	0.13	0.01	0.26	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW361	0445_MW361_250514	14 May 2025	E8 - May 2025	1221064	Normal	0.02	0.02	0.18	0.01	0.10	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW361	0445_MW361_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.01	<0.01	0.11	0.01	0.27	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW403	0445_MW403_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	Normal	5.04	5.46	41.6	3.48	52.3	-	<0.04	1.1	2.23	9.86	1.69	4.41	0.05	<0.04	<0.04	<0.04	<0.04	<0.10
MW403	0445_MW403_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	5.98	7.17	46.0	4.26	52.7	-	<0.04	1.3	2.40	11.2	1.66	3.42	0.06	<0.04	<0.04	<0.04	<0.04	<0.09
MW403	0445_MW403_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	4.15	3.95	29.2	2.90	58.1	-	<0.03	0.8	1.59	7.21	1.01	2.85	0.04	<0.03	<0.03	<0.03	<0.03	<0.08
MW403	0445_MW403_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	6.47	7.04	42.4	2.42	38.1	-	<0.02	1.4	2.80	10.3	1.80	3.04	0.04	<0.02	<0.02	<0.02	<0.02	<0.05
MW403	0445_MW403_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	7.80	10.2	62.2	2.73	40.8	-	<0.02	1.8	3.34	14.4	2.04	3.55	0.04	<0.02	<0.02	<0.02	<0.02	<0.05
MW403	0445_MW403_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	6.70	7.40	53.2	1.87	30.5	-	<0.02	1.9	3.36	14.2	1.68	2.78	0.03	<0.02	<0.02	<0.02	<0.02	<0.05
MW403	0445E_MW403_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	4.5	4.7	31	1.5	42	<0.1	<0.01	1.4	2.2	9.5	1.1	2.3	0.05	<0.01	<0.01	<0.01	<0.01	<0.01
MW403	0445E_MW403_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	7	7.8	42	2.8	33	0.03	<0.01	1.9	3.6	12	1.5	2	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
MW404	0445_QC103_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Field_D	5.33	2.88	28.4	2.75	40.9	-	<0.04	1.1	1.74	7.32	1.86	3.96	<0.04	<0.04	<0.04	<0.04	<0.04	<0.11
MW404	QC203_211111	11 Nov 2021	E1 - Nov 2021	841785	Interlab_D	4.7	4.6	37	1.7	47	<0.1	<0.01	0.96	1.4	6.9	1.6	3.4	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
MW404	0445_MW404_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	5.20	3.16	30.9	2.81	50.2	-	<0.04	0.8	1.66	7.59	1.73	3.86	<0.04	<0.04	<0.04	<0.04	<0.04	<0.10
MW404	0445_MW404_220505	05 May 2022	E2 - May 2022	EM2208381	Normal	7.16	9.16	45.2	4.18	56.2	-	<0.04	1.2	2.63	13.3	2.80	4.02	<0.04	<0.04	<0.04	<0.04	<0.04	<0.09
MW404	0445_MW404_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	12.8	13.0	74.0	4.68	82.4	-	<0.03	1.6	4.15	19.6	4.22	6.44	0.04	<0.03	<0.03	<0.03	<0.03	<0.08
MW404	0445_MW404_230505	06 May 2023	E4 - May 2023	EM2308015	Normal	19.5	18.2	102	6.71	96.4	-	<0.03	2.6	6.13	31.2	7.04	12.2	0.05	<0.03	<0.03	<0.03	<0.03	<0.09
MW404	0445_MW404_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	13.9	16.8	110	6.86	104	-	<0.02	2.6	5.10	25.1	5.41	10.3	0.05	<0.02	<0.02	<0.02	<0.02	<0.05
MW404	0445_MW404_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	13.0	14.7	95.9	4.97	82.4	-	<0.02	2.8	5.71	25.6	5.12	8.66	0.04	<0.02	<0.02	<0.02	<0.02	<0.05
MW404	0445E_MW404_241203	03 Dec 2024	E7 - Nov 2024	1169993	Normal	9.7	10	73	3.9	91	<0.2	<0.01	2.1	3.7	18	3.5	8.2	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
MW404	0445E_MW404_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	8.1	9	55	3.4	54	0.12	<0.01	1.9	3.7	11	3.8	4.5	0.04	<0.01	<0.01	<0.01	<0.01	<0.01
MW406	0445S_MW406_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW411	0445_MW411_250514	14 May 2025	E8 - May 2025	1221064	Normal	0.08	0.08	0.48	0.03	1.0	<0.01	<0.01	<0.05	0.02	0.09	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW411	0445_MW411_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.12	0.14	0.84	0.05	1.5	<0.01	<0.01	<0.05	0.04	0.17	0.03	0.06	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW412	0445_MW412_250514	14 May 2025	E8 - May 2025	1221064	Normal	0.13	0.16	1.4	0.09	4.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW412	0445_QC201_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.145	0.157	1.15	0.095	2.99	<0.010	<0.010	<0.05	0.038	0.186	0.037	0.089	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
MW412	0445_MW412_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.13	0.14	1.2	0.08	3.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
MW412	0445_QC101_251015	15 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.13	0.14	1.3	0.08	3.3	<0.01	<0.01	<0.05	0.04	0.19	0.04	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW413	0445_MW413_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.04	0.05	0.51	0.02	0.51	<0.01	<0.01	<0.05	0.01	0.07	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW414	0445_MW414_250514	14 May 2025	E8 - May 2025	1221064	Normal	0.07	0.09	0.91	0.05	1.7	<0.01	<0.01	<0.05	0.02	0.11	0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW414	0445_MW414_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.07	0.09	0.87	0.04	1.1	<0.01	<0.01	<0.05	0.03	0.12	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW415	0445_MW415_250514	14 May 2025	E8 - May 2025	1221064	Normal	0.94	1.1	6.2	0.36	5.4	<0.01	<0.01	0.25	0.39	1.4	0.23	0.49	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW415	0445_MW415_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	1.1	1.3	6.4	0.39	4.9	<0.01	<0.01	0.25	0.25	1.6	0.29	0.60	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW416	0445_MW416_230506	06 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW416	0445_MW416_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW416	0445_QC105_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
MW416	0445_QC205_231025	25 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW416	0445_QC102_241129	29 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW416	0445_QC202_241129	29 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	0.081	0.015	0.40	-	<0.010	<0.050	<0.010	0.023	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
MW416	0445S_MW416_241129	29 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.18	0.03	1.0	<0.01	<0.01	<0.05	0.01	0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW416	0445S_MW416_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.13	0.02	0.74	<0.01	<0.01	<0.05	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW447	0445_MW447_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.05	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
MW447	0445_MW447_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	0.01	0.09	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
OTH019	0445_OTH019_211115	15 Nov 2021	E1 - Nov 2021	EM2122969	Normal	<0.02	<0.02	0.13	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_OTH019_220505	05 May 2022	E2 - May 2022	EM2208348	Normal	<0.02	<0.02	0.11	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_OTH019_221110	10 Nov 2022	E3 - Oct 2022	EM2222364	Normal	<0.02	<0.02	0.10	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_QC110_221110	10 Nov 2022	E3 - Oct 2022	EM2222364	Field_D	<0.02	<0.02	0.10	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_QC210_221110	10 Nov 2022	E3 - Oct 2022	941104	Interlab_D	<0.01	<0.01	0.10	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
OTH019	0445_OTH019_230502	02 May 2023	E4 - May 2023	EM2308003	Normal	<0.02	<0.02	0.11	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_OTH019_231023	23 Oct 2023	E5 - Oct 2023	EM2319355	Normal	<0.02	<0.02	0.16	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_OTH019_240403	03 Apr 2024	E6 - Apr 2024	EM2405436	Normal	<0.02	<0.02	0.13	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
OTH019	0445_OTH019_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.015	0.026	0.22	0.009	0.093	<0.001	<0.001	0.006	0.002	0.014	0.002	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
OTH019	0445_OTH19_251013	13 Oct 2025	E9 - Oct 2025	1291059	Normal	0.018	0.032	0.30	0.010	0.15	<0.001	<0.001	0.008	0.003	0.016	0.002	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
SW302	0445S_SW302_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.53	0.10	0.42	0.03	3.0	<0.01	<0.01	0.35	0.30	0.24	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW307	0445_SW307_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.10	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW307	0445_SW307_221013	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.11	<0.02	0.14	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW307	0445S_SW307_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	<0.01	0.04	<0.01	0.11	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW310	0445_SW310_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.21	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW310	0445_SW310_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.04	0.03	0.28	<0.02	0.18	-	<0.02	<0.1	<0.02	0.05	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW310	0445_SW310_230503	03 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.03	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW310	0445S_SW310_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.03	<0.01	0.09	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW311	0445_SW311_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.03	0.02	0.41	0.03	1.75	-	<0.02	<0.1	0.04	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW311	0445_SW311_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.04	0.04	0.82	0.03	0.74	-	<0.02	<0.1	0.22	0.26	0.05	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW311	0445_QC100_20221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	0.05	0.04	0.92	0.03	0.97	-	<0.02	0.2	0.24	0.29	0.04	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW311	0445_QC200_221010	10 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.07	0.06	1.2	0.04	1.2	<0.01	<0.01	0.23	0.34	0.36	0.06	0.10	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW311	0445_SW311_230506	06 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.02	<0.02	0.18	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW311	0445S_SW311_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.01	<0.01	0.02	<0.01	0.31	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW313	0445_SW313_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.10	0.06	1.30	0.07	3.13	-	<0.02	0.1	0.31	0.44	0.11	0.30	0.18	<0.02	<0.02	<0.02	<0.02	<0.05
SW313	0445_QC111_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	0.10	0.07	1.28	0.06	3.85	-	<0.02	0.1	0.33	0.48	0.11	0.30	0.19	<0.02	<0.02	<0.02	<0.02	<0.05
SW313	0445_QC211_211117	17 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.08	0.08	1.6	0.08	4.5	0.02	<0.01	0.23	0.32	0.53	0.12	0.35	0.18	0.01	<0.01	<0.01	<0.01	<0.01
SW313	0445_SW313_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.10	0.08	1.06	0.04	2.91	-	<0.02	0.1	0.37	0.44	0.05	0.10	0.08	<0.02	<0.02	<0.02	<0.02	<0.05
SW313	0445_SW313_230501	01 May 2023	E4 - May 2023	EM2308015	Normal	0.14	0.12	1.43	0.03	1.90	-	<0.02	0.1	0.41	0.59	0.10	0.14	0.08	<0.02	<0.02	<0.02	<0.02	<0.05
SW313	0445_SW313_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.21	0.17	2.39	0.07	3.14	-	<0.02	0.3	0.79	1.10	0.14	0.19	0.11	<0.02	<0.02	<0.02	<0.02	<0.05
SW313	0445S_SW313_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.33	0.45	6.3	0.52	25	0.20	0.06	0.67	1.5	2.6	0.58	1.2	0.53	0.04	<0.01	<0.01	<0.01	<0.01
SW316	0445_SW316_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.04	0.03	0.50	0.02	0.52	-	<0.02	<0.1	0.04	0.07	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW316	0445_SW316_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	0.02	0.46	0.03	0.91	-	<0.02	<0.1	0.04	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW316	0445_QC103_230503	03 May 2023	E4 - May 2023	EM2308015	Field_D	0.02	<0.02	0.08	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW316	0445_SW316_230503	03 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.07	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW316	0445_QC203_230503	03 May 2023	E4 - May 2023	987797	Interlab_D	0.02	<0.01	0.07	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW316	0445S_SW316_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	<0.01	0.05	<0.01	0.25	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW316	0445_SW316_250527	27 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.04	<0.01	0.43	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW321	0445_SW321_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.16	0.16	2.32	0.10	3.48	-	<0.02	<0.1	0.06	0.35	0.03	0.09	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_QC112_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	0.18	0.17	2.36	0.10	3.88	-	<0.02	<0.1	0.05	0.36	0.03	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_QC212_211117	17 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.18	0.26	2.8	0.13	7.5	<0.01	<0.01	0.06	0.06	0.45	0.04	0.11	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW321	0445_SW321_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.05	0.05	0.96	0.10	6.13	-	<0.02	<0.1	0.02	0.11	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_SW321_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.16	<0.02	0.96	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_SW321_230501	01 May 2023	E4 - May 2023	EM2308015	Normal	0.04	0.05	0.70	0.05	3.97	-	<0.02	<0.1	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_QC100_230501	01 May 2023	E4 - May 2023	EM2308015	Field_D	0.04	0.05	0.69	0.05	4.28	-	<0.02	<0.1	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445_QC200_230501	01 May 2023	E4 - May 2023	987797	Interlab_D	0.04	0.04	0.62	0.07	4.7	<0.01	<0.01	<0.05	<0.01	0.07	<0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW321	0445_SW321_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.03	<0.02	0.41	0.03	3.10	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW321	0445S_SW321_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.03	<0.01	0.50	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW322	0445_SW322_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.16	0.16	2.10	0.08	2.38	-	<0.02	<0.1	0.05	0.31	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW322	0445_SW322_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.04	0.06	1.04	0.11	6.97	-	<0.02	<0.1	0.02	0.12	<0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW322	0445_SW322_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.17	<0.02	0.83	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW322	0445_SW322_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.04	0.04	0.68	0.04	3.13	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW322	0445_SW322_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.02	0.02	0.37	<0.02	3.00	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW322	0445S_SW322_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.02	0.20	0.01	1.0	<0.01	<0.01	<0.05	0.06	0.06	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW323	0445_SW323_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.02	<0.02	0.28	<0.02	0.66	-	<0.02	<0.1	0.04	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445_SW323_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.03	<0.02	0.20	<0.02	0.65	-	<0.02	<0.1	0.03	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445_SW323_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.04	<0.02	0.23	<0.02	0.56	-	<0.02	<0.1	0.03	0.05	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445_SW323_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.03	0.02	0.23	<0.02	0.63	-	<0.02	<0.1	0.03	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445_QC203_231023	23 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	0.02	0.02	0.23	0.01	0.88	<0.01	<0.01	<0.05	0.03	0.05	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW323	0445_SW323_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	0.02	0.27	<0.02	1.02	-	<0.02	<0.1	0.04	0.06	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445_QC103_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	0.26	<0.02	1.08	-	<0.02	<0.1	0.04	0.07	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW323	0445S_SW323_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.02	0.20	0.01	1.1	<0.01	<0.01	<0.05	0.11	0.06	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW323	0445_SW323_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.03	0.02	0.16	<0.01	0.73	<0.01	<0.01	<0.05	0.05	0.07	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW323	0445_QC201_250527	27 May 2025	E8 - May 2025	MGF0019	Interlab_D	0.040	0.024	0.25	0.012	0.88	-	<0.010	<0.050	0.082	0.049	0.039	0.031	0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW323	0445_QC101_250527	27 May 2025	E8 - May 2025	1226670	Field_D	0.02	0.02	0.21	0.01	1.1	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW323	0445S_SW323_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.03	0.02	0.28	0.02	1.4	<0.01	<0.01	<0.05	0.07	0.08	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW324	0445_QC110_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	0.06	0.04	0.62	0.03	1.61	-	<0.02	<0.1	0.10	0.15	0.04	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_SW324_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.06	0.05	0.75	0.04	1.86	-	<0.02	<0.1	0.10	0.17	0.05	0.10	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_QC210_211117	17 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.05	0.06	1.0	0.05	2.6	0.02	0.01	0.10	0.11	0.21	0.05	0.11	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW324	0445_SW324_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.24	<0.02	0.96	-	<0.02	<0.1	0.04	0.04	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_SW324_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.04	0.03	0.50	0.04	1.46	-	<0.02	<0.1	0.06	0.11	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_QC101_230501	01 May 2023	E4 - May 2023	EM2308015	Field_D	0.07	0.05	0.64	0.02	1.80	-	<0.02	<0.1	0.12	0.18	0.05	0.09	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_SW324_230501	01 May 2023	E4 - May 2023	EM2308015	Normal	0.07	0.06	0.66	0.03	1.80	-	<0.02	<0.1	0.12	0.18	0.06	0.09	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_QC201_230501	01 May 2023	E4 - May 2023	987797	Interlab_D	0.05	0.05	0.71	0.03	2.1	<0.01	<0.01	0.06	0.11	0.16	0.05	0.08	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW324	0445_SW324_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.04	<0.02	0.30	0.02	2.04	-	<0.02	<0.1	0.07	0.10	0.03	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_QC204_240403	03 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.06	0.04	0.57	0.02	1.1	<0.01	<0.01	0.06	0.14	0.14	0.07	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW324	0445_QC104_240403	03 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.06	0.05	0.65	<0.02	1.18	-	<0.02	<0.1	0.12	0.15	0.06	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445_SW324_240403	03 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.06	0.04	0.66	<0.02	1.21	-	<0.02	<0.1	0.13	0.14	0.07	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW324	0445S_SW324_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.05	0.03	0.28	0.01	0.91	<0.01	<0.01	0.06	0.13	0.10	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW324	0445_SW324_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.02	0.01	0.19	<0.01	0.68	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW326	0445_SW326_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.22	0.19	2.14	0.22	7.99	-	0.07	0.2	0.37	0.63	0.19	0.38	0.04	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_SW326_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.09	<0.02	0.60	-	<0.02	<0.1	0.04	0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_SW326_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.17	<0.02	0.48	-	<0.02	<0.1	0.02	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_SW326_230501	01 May 2023	E4 - May 2023	EM2308015	Normal	0.02	<0.02	0.17	<0.02	1.20	-	<0.02	<0.1	0.04	0.06	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_SW326_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.05	0.04	0.59	0.06	2.62	-	<0.02	<0.1	0.10	0.17	0.06	0.11	0.03	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_QC102_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	0.04	0.04	0.63	0.06	2.68	-	<0.02	<0.1	0.11	0.18	0.06	0.12	0.03	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_QC202_231023	23 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	0.04	0.04	0.59	0.06	2.8	0.02	<0.01	0.06	0.11	0.14	0.05	0.10	0.03	<0.01	<0.01	<0.01	<0.01	<0.01
SW326	0445_SW326_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.05	<0.02	0.19	<0.02	0.26	-	<0.02	<0.1	0.06	0.05	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_QC100_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.05	<0.02	0.18	<0.02	0.27	-	<0.02	<0.1	0.05	0.06	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW326	0445_QC200_240402	02 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.04	0.01	0.16	<0.01	0.27	<0.01	<0.01	<0.05	0.06	0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW326	0445S_SW326_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.05	0.06	0.64	0.04	2.5	0.01	<0.01	<0.05	0.11	0.14	0.05	0.08	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW326	0445_SW326_250527	27 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW326	0445S_SW326_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.01	0.02	0.18	<0.01	0.75	<0.01	<0.01	<0.05	0.07	0.05	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW332	0445_SW332_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW332	0445_SW332_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.06	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW332	0445_SW332_230503	03 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	<0.01	<0.02	0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW332	0445_QC100_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Field_D	0.27	0.12	0.74	0.04	3.22	-	<0.02	0.2	0.16	0.34	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW332	0445_QC200_231128	28 Nov 2023	E5 - Oct 2023	1049115	Interlab_D	0.23	0.09	0.66	0.04	3.3	0.02	<0.01	0.19	0.14	0.27	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW332	0445_SW332_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	0.28	0.12	0.78	0.05	3.52	-	<0.02	0.2	0.16	0.33	0.02	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW332	0445S_SW332_241124	25 Nov 2024	E7 - Nov 2024	1166588	Normal	1.4	1.5	9.6	0.89	13	0.02	<0.01	0.29	0.60	3.1	0.31	0.72	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW332	0445_SW332_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.01	<0.01	0.03	<0.01	0.03	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW333	0445_SW333_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.07	0.05	0.40	<0.02	0.44	-	<0.02	<0.1	0.07	0.13	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW333	0445_SW333_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.02	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW333	0445_SW333_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	<0.02	0.17	<0.02	0.41	-	<0.02	<0.1	<0.02	0.05	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW333	0445_SW333_230503	03 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.04	<0.02	0.12	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW333	0445_SW333_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	Normal	0.05	<0.02	0.17	<0.02	0.52	-	<0.02	<0.1	0.03	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW333	0445S_SW333_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.06	0.06	0.47	0.04	1.3	<0.01	<0.01	<0.05	0.05	0.14	0.01	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW333	0445_SW333_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.36	0.29	1.3	0.08	1.7	<0.01	<0.01	0.05	0.10	0.66	0.06	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW336	0445_SW336_211115	15 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.06	0.05	0.42	0.05	7.29	-	0.19	<0.1	0.10	0.26	0.10	0.20	0.15	0.16	0.10	0.02	<0.02	<0.05
SW336	0445_SW336_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.14	0.11	0.54	0.04	7.64	-	0.96	<0.2	0.44	0.95	0.25	0.35	0.16	0.14	0.23	0.24	0.08	<0.09
SW336	0445_QC106_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	0.05	0.05	0.51	0.08	4.70	-	0.07	<0.1	0.09	0.21	0.08	0.17	0.06	0.07	0.03	<0.02	<0.02	<0.05
SW336	0445_SW336_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.05	0.07	0.65	0.10	5.98	-	0.09	<0.1	0.10	0.23	0.08	0.19	0.06	0.08	0.04	<0.02	<0.02	<0.05
SW336	0445_QC206_221014	14 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.07	0.07	0.80	0.15	6.8	0.13	0.08	0.06	0.14	0.30	0.11	0.25	0.07	0.09	0.03	<0.01	<0.01	<0.01
SW336	0445_SW336_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	0.10	0.19	1.15	0.07	4.78	-	0.10	0.2	0.35	0.93	0.31	0.57	0.21	0.11	0.05	0.02	<0.02	<0.05
SW336	0445_SW336_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.22	0.23	2.08	0.20	13.8	-	0.44	0.3	0.71	1.77	0.55	1.17	0.42	0.28	0.13	0.07	<0.02	<0.05
SW336	0445S_SW336_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.27	0.42	2.8	0.21	14	0.42	0.09	0.30	0.69	2.0	0.48	1.2	0.36	0.38	0.17	0.03	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW336	0445_SW336_250515	15 May 2025	E8 - May 2025	1221064	Normal	0.65	1.1	6.9	0.44	15	0.12	0.05	0.93	1.9	5.1	1.6	3.5	0.83	0.38	0.06	<0.01	<0.01	<0.01
SW338	0445_SW338_211109	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.09	0.03	0.25	<0.02	1.06	-	<0.02	<0.1	0.04	0.16	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_SW338_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.03	0.03	0.24	<0.02	0.76	-	<0.02	<0.1	0.04	0.11	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_SW338_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	0.02	0.17	<0.02	0.53	-	<0.02	<0.1	0.03	0.10	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_QC107_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	0.03	0.02	0.17	<0.02	0.62	-	<0.02	<0.1	0.02	0.09	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_QC207_221014	14 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.03	0.03	0.22	0.01	0.81	<0.01	<0.01	<0.05	0.04	0.12	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_SW338_230502	02 May 2023	E4 - May 2023	EM2308015	Normal	0.03	0.02	0.18	<0.02	0.53	-	<0.02	<0.1	0.03	0.10	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_QC102_230502	02 May 2023	E4 - May 2023	EM2308015	Field_D	0.03	0.03	0.20	<0.02	0.55	-	<0.02	<0.1	0.03	0.11	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_QC202_230502	02 May 2023	E4 - May 2023	987797	Interlab_D	0.03	0.03	0.19	0.01	0.72	<0.01	<0.01	<0.05	0.03	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_SW338_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.04	0.03	0.22	<0.02	0.98	-	<0.02	<0.1	0.05	0.13	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445_SW338_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.02	0.03	0.21	<0.02	0.60	-	<0.02	<0.1	0.04	0.13	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW338	0445S_SW338_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.04	0.03	0.23	0.11	0.90	<0.01	<0.01	<0.05	0.04	0.14	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_QC201_250515	15 May 2025	E8 - May 2025	MGE0347	Interlab_D	0.046	0.034	0.24	0.015	0.75	-	<0.010	<0.20	0.039	0.12	0.034	0.042	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW338	0445_SW338_250515	15 May 2025	E8 - May 2025	1221064	Normal	0.03	0.03	0.21	0.01	1.0	<0.01	<0.01	<0.05	0.04	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_QC101_250515	15 May 2025	E8 - May 2025	1221064	Field_D	0.03	0.03	0.21	0.01	1.1	<0.01	<0.01	<0.05	0.02	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_QC103_251016	16 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.04	0.04	0.31	0.01	0.96	<0.01	<0.01	<0.05	0.04	0.14	0.02	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW338	0445_QC203_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.047	0.043	0.278	0.017	1.03	<0.010	<0.010	<0.05	0.034	0.136	0.024	0.046	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SW338	0445S_SW338_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	0.04	0.04	0.33	0.02	1.1	<0.01	<0.01	<0.05	0.04	0.15	0.02	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW340	0445_SW340_211109	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.26	0.21	1.66	0.11	4.20	-	<0.02	0.2	0.28	0.44	0.10	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW340	0445_QC108_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	0.02	0.02	0.21	<0.02	0.70	-	<0.02	<0.1	0.03	0.06	0.03	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW340	0445_SW340_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.02	0.02	0.22	<0.02	0.76	-	<0.02	<0.1	0.03	0.07	0.03	0.05	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW340	0445_QC208_221014	14 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.03	0.03	0.29	0.02	1.3	<0.01	<0.01	<0.05	0.05	0.09	0.04	0.06	0.03	0.02	<0.01	<0.01	<0.01	<0.01
SW340	0445_SW340_230502	02 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	0.03	0.30	0.02	1.20	-	<0.02	<0.1	0.03	0.08	0.07	0.09	0.03	<0.02	<0.02	<0.02	<0.02	<0.05
SW340	0445_SW340_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.04	0.04	0.48	0.02	2.01	-	<0.02	<0.1	0.14	0.18	0.12	0.16	0.06	0.04	<0.02	<0.02	<0.02	<0.05
SW340	0445S_SW340_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.07	0.08	0.77	0.50	3.7	0.02	<0.01	0.08	0.25	0.35	0.23	0.32	0.14	0.08	0.04	<0.01	<0.01	<0.01
SW346	0445_SW346_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.04	0.03	0.21	<0.02	0.73	-	<0.02	<0.1	0.07	0.08	0.03	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445_SW346_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.04	<0.02	0.17	<0.02	0.69	-	<0.02	<0.1	0.04	0.05	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445_SW346_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.05	0.04	0.30	0.02	0.77	-	<0.02	<0.1	0.05	0.08	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445_SW346_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	0.03	0.02	0.16	<0.02	0.67	-	<0.02	<0.1	0.05	0.06	0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445_SW346_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.08	0.04	0.36	0.02	1.14	-	<0.02	<0.1	0.09	0.11	0.04	0.06	0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445_SW346_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.05	0.04	0.27	<0.02	0.76	-	<0.02	<0.1	0.08	0.10	0.03	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW346	0445S_SW346_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.04	0.03	0.21	0.01	1.1	<0.01	<0.01	<0.05	0.07	0.09	0.03	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW346	0445_SW346_250515	15 May 2025	E8 - May 2025	1221064	Normal	0.05	0.04	0.26	0.02	1.2	<0.01	<0.01	0.07	0.11	0.10	0.03	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW346	0445S_SW346_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.06	0.04	0.36	0.02	1.3	<0.01	<0.01	0.07	0.1	0.13	0.05	0.08	0.03	0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445_QC106_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	0.05	0.02	0.18	<0.02	0.55	-	<0.02	<0.1	0.06	0.08	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_SW349_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.04	0.03	0.21	<0.02	0.61	-	<0.02	<0.1	0.06	0.08	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_QC206_211115	15 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.04	0.03	0.22	0.01	0.84	<0.01	<0.01	0.08	0.07	0.10	0.03	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445_QC103_220504	04 May 2022	E2 - May 2022	EM2208381	Field_D	0.02	<0.02	0.15	<0.02	0.46	-	<0.02	<0.1	0.04	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_SW349_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	0.03	<0.02	0.13	<0.02	0.48	-	<0.02	<0.1	0.04	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_QC203_220504	04 May 2022	E2 - May 2022	886780	Interlab_D	0.03	0.02	0.13	<0.01	0.54	<0.01	<0.01	<0.05	0.04	0.04	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445_SW349_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	0.02	0.16	<0.02	0.47	-	<0.02	<0.1	0.04	0.05	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_SW349_230502	02 May 2023	E4 - May 2023	EM2308015	Normal	0.03	<0.02	0.13	<0.02	0.46	-	<0.02	<0.1	0.03	0.04	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_QC200_231023	23 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	0.03	0.02	0.16	<0.01	0.63	<0.01	<0.01	<0.05	0.04	0.06	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445_QC100_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	0.04	0.02	0.21	<0.02	0.64	-	<0.02	<0.1	0.06	0.08	0.03	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_SW349_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.03	0.03	0.19	<0.02	0.67	-	<0.02	<0.1	0.05	0.08	0.03	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_QC101_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	0.05	0.03	0.27	<0.02	0.82	-	<0.02	<0.1	0.08	0.10	0.04	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_SW349_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.05	0.04	0.27	<0.02	0.83	-	<0.02	<0.1	0.08	0.10	0.04	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW349	0445_QC201_240402	02 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	0.05	0.03	0.22	0.02	0.99	<0.01	<0.01	<0.05	0.09	0.11	0.04	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445S_SW349_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.05	0.04	0.26	0.02	1.3	<0.01	<0.01	<0.05	0.08	0.11	0.03	0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445_SW349_250515	15 May 2025	E8 - May 2025	1221064	Normal	0.05	0.04	0.26	0.02	1.1	<0.01	<0.01	0.06	0.10	0.10	0.04	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW349	0445S_SW349_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	0.06	0.04	0.32	0.02	1.2	<0.01	<0.01	0.06	0.1	0.12	0.04	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445_QC107_211117	16 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	<0.02	<0.02	0.08	<0.02	0.21	-	<0.02	<0.1	0.02	0.03	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_SW355_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.08	<0.02	0.22	-	<0.02	<0.1	0.02	0.03	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC207_211117	17 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.02	0.01	0.10	<0.01	0.29	<0.01	<0.01	<0.05	0.03	0.04	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445_SW355_220504	04 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.02	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC104_220504	04 May 2022	E2 - May 2022	EM2208381	Field_D	<0.02	<0.02	0.05	<0.02	0.19	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC104_220504	04 May 2022	E2 - May 2022	EM2208382	Field_D	<0.02	<0.02	0.05	<0.02	0.19	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC204_220504	04 May 2022	E2 - May 2022	886780	Interlab_D	0.01	<0.01	0.05	<0.01	0.27	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445_QC204_220504	04 May 2022	E2 - May 2022	898569	Interlab_D	0.01	<0.01	0.05	<0.01	0.27	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445_SW355_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.07	<0.02	0.21	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_SW355_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.04	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC201_231023	23 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	0.01	<0.01	0.05	<0.01	0.16	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445_SW355_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.06	<0.02	0.21	-	<0.02	<0.1	<0.02	<0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_QC101_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	0.06	<0.02	0.22	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445_SW355_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.06	<0.02	0.22	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW355	0445S_SW355_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.01	0.08	<0.01	0.36	<0.01	<0.01	<0.05	0.02	0.03	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW355	0445_SW355_250515	15 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.05	<0.01	0.18	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW355	0445S_SW355_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.04	<0.01	0.13	<0.01	<0.01	<0.05	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW370	0445_SW370_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.08	<0.02	0.22	-	<0.02	<0.1	<0.02	0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445_SW370_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.03	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445_QC109_20221015	15 Oct 2022	E3 - Oct 2022	EM2220286	Field_D	<0.02	<0.02	0.06	<0.02	0.14	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445_SW370_221015	15 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.06	<0.02	0.14	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445_QC209_221015	15 Oct 2022	E3 - Oct 2022	932350	Interlab_D	<0.01	<0.01	0.08	<0.01	0.19	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW370	0445_SW370_230504	04 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.03	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445_SW370_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.05	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW370	0445N_SW370_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.05	<0.01	0.11	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW370	0445_SW370_250528	28 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW374	0445_SW374_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.04	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445_SW374_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.02	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445_SW374_221014	15 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.04	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445_SW374_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.02	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445_SW374_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.04	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445_SW374_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.03	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW374	0445N_SW374_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW374	0445_SW374_250528	28 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW374	0445N_SW374_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.03	<0.01	0.09	<0.01	<0.01	<0.05	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW375	0445_SW375_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	0.06	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_SW375_220506	06 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.02	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_SW375_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.03	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_SW375_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.02	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_SW375_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	0.03	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_QC110_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	<0.02	<0.02	0.03	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_SW375_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	0.02	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW375	0445_QC210_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW375	0445N_SW375_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW375	0445_SW375_250528	28 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW375	0445N_SW375_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.03	<0.01	0.08	<0.01	<0.01	<0.05	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW379	0445_SW379_21116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.15	0.04	0.17	<0.02	0.41	-	0.02	0.1	0.07	0.09	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW379	0445_SW379_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	0.03	<0.02	0.03	<0.02	0.12	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW379	0445E_SW379_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.14	0.05	0.18	<0.01	0.74	0.02	0.02	0.12	0.06	0.06	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW380	0445_SW380_211108	10 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.06	0.02	0.09	<0.02	0.34	-	<0.02	<0.1	<0.02	0.08	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW380	0445_SW380_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.02	<0.02	0.18	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW380	0445_SW380_230506	06 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	0.01	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW380	0445E_SW380_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445_QC109_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_QC209_211116	16 Nov 2021	E1 - Nov 2021	842787	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445_SW382_211116	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_SW382_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_SW382_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_SW382_230505	05 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_QC104_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Field_D	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_QC204_231025	25 Oct 2023	E5 - Oct 2023	1039507	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445_SW382_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_QC106_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Field_D	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445_QC206_240404	04 Apr 2024	E6 - Apr 2024	1086312	Interlab_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445_SW382_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW382	0445E_SW382_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445_SW382_250515	15 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW382	0445E_SW382_251016	16 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW387	0445_SW387_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.03	<0.02	0.15	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_QC101_220503	03 May 2022	E2 - May 2022	EM2208381	Field_D	<0.02	<0.02	0.08	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_QC201_220503	03 May 2022	E2 - May 2022	886780	Interlab_D	0.01	<0.01	0.06	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW387	0445_SW387_220503	03 May 2022	E2 - May 2022	EM2208381	Normal	<0.02	<0.02	0.05	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_QC201_220708	08 Jul 2022	E2 - May 2022	904823	Interlab_D	0.06	0.04	0.23	<0.01	0.10	<0.01	<0.01	<0.05	0.01	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW387	0445_SW387_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.13	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_SW387_230508	08 May 2023	E4 - May 2023	EM2308015	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_SW387_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	Normal	0.04	<0.02	0.15	<0.02	0.14	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445_SW387_240405	05 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.02	0.02	0.21	<0.02	0.12	-	<0.02	<0.1	<0.02	0.03	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW387	0445E_SW387_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW387	0445_QC202_250513	13 May 2025	E8 - May 2025	MGE0347	Interlab_D	0.046	0.043	0.29	0.019	0.14	-	<0.010	<0.20	<0.010	0.035	0.011	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW387	0445_QC102_250513	13 May 2025	E8 - May 2025	1221064	Field_D	0.03	0.03	0.25	0.02	0.20	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW387	0445_SW387_250513	13 May 2025	E8 - May 2025	1221064	Normal	0.03	0.03	0.25	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW387	0445E_SW387_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.03	0.03	0.28	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW388	0445_SW388_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.04	<0.02	0.20	<0.02	0.28	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW388	0445_SW388_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.05	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW388	0445E_SW388_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW388	0445_SW388_250529	29 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW388	0445E_SW388_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.05	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW390	0445_SW390_211109	09 Nov 2021	E1 - Nov 2021	EM2122518	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW390	0445_SW390_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW390	0445_SW390_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.001	<0.001	<0.001	<0.001	<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
SW390	0445_SW390_131013	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.001	<0.001	<0.001	<0.001	<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
SW393	0445_SW393_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_221110	10 Nov 2022	E3 - Oct 2022	EM2222367	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW393	0445_SW393_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW393	0445_SW393_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW393	0445_SW393_251017	17 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW395	0445_SW395_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	0.03	<0.02	0.10	<0.02	0.09	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_220509	09 May 2022	E2 - May 2022	EM2208629	Normal	<0.02	<0.02	0.06	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_221110	10 Nov 2022	E3 - Oct 2022	EM2222367	Normal	0.03	0.02	0.20	<0.02	0.18	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_230506	06 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.03	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.05	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	0.07	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW395	0445_SW395_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.03	<0.01	0.04	<0.01	<0.01	<0.05	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW395	0445_QC202_241127	27 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	0.028	<0.010	0.045	-	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW395	0445_QC102_241127	27 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	0.04	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW395	0445_SW395_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.05	<0.01	0.11	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW395	0445_SW395_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW396	0445_SW396_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.16	0.11	1.07	0.03	0.44	-	<0.02	<0.1	0.04	0.13	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW396	0445_SW396_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.21	0.19	1.65	0.05	0.57	-	<0.02	<0.1	0.06	0.17	0.04	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW396	0445_SW396_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.09	0.08	0.68	0.02	0.42	-	<0.02	<0.1	0.02	0.07	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW396	0445_SW396_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.14	0.18	1.14	0.05	0.49	-	<0.02	<0.1	0.04	0.17	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW396	0445_SW396_231027	27 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.17	0.14	1.30	0.04	0.67	-	<0.02	<0.1	0.06	0.17	0.03	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW396	0445_QC201_241204	04 Dec 2024	E7 - Nov 2024	MFL0268	Interlab_D	0.30	0.27	1.9	0.069	0.71	-	<0.010	<0.050	0.090	0.31	0.046	0.093	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW396	0445_QC101_241204	04 Dec 2024	E7 - Nov 2024	1169993	Field_D	0.28	0.30	2.0	0.06	0.92	<0.01	<0.01	0.05	0.10	0.37	0.05	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW396	0445_SW396_241204	04 Dec 2024	E7 - Nov 2024	1169993	Normal	0.27	0.28	2.0	0.06	0.95	<0.01	<0.01	0.05	0.09	0.36	0.05	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW396	0445_SW396_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.46	0.44	3.2	0.08	1.2	<0.01	<0.01	0.16	0.12	0.44	0.06	0.14	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW397	0445_SW397_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.57	0.51	3.32	0.26	3.32	-	<0.02	0.2	0.23	0.72	0.19	0.30	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.64	0.68	4.32	0.30	3.99	-	<0.02	0.1	0.27	0.87	0.20	0.34	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.50	0.51	3.30	0.24	3.23	-	<0.02	<0.1	0.18	0.75	0.14	0.24	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.58	0.62	3.41	0.24	2.79	-	<0.02	0.1	0.20	0.87	0.16	0.28	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.52	0.54	3.70	0.24	3.09	-	<0.02	<0.1	0.21	0.84	0.16	0.26	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	Normal	0.69	0.72	4.61	0.32	4.31	-	<0.02	0.2	0.26	1.08	0.20	0.36	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW397	0445_SW397_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.54	0.76	3.5	0.22	3.3	<0.01	<0.01	0.13	0.20	0.92	0.14	0.32	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW397	0445_SW397_250513	13 May 2025	E8 - May 2025	1221064	Normal	0.70	0.80	4.7	0.38	6.0	<0.01	<0.01	0.19	0.28	1.1	0.19	0.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW397	0445_SW397_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.62	0.65	4.3	0.29	5.5	<0.01	<0.01	0.15	0.23	0.98	0.16	0.38	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW398	0445_SW398_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_220503	03 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.04	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_230506	06 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW398	0445_SW398_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW398	0445_SW398_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW398	0445_SW398_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW400	0445_SW400_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.26	0.13	0.81	0.06	0.70	-	<0.02	<0.1	0.05	0.14	0.04	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW400	0445_SW400_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.07	0.05	0.33	<0.02	0.22	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW400	0445_SW400_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.06	0.05	0.32	0.02	0.25	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW400	0445_SW400_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.02	0.03	0.18	<0.02	0.14	-	<0.02	<0.1	<0.02	0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW400	0445_SW400_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.17	0.14	1.00	0.05	0.57	-	<0.02	<0.1	0.06	0.20	0.04	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW400	0445_SW400_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	Normal	0.13	0.13	0.91	0.04	0.58	-	<0.02	<0.1	0.02	0.13	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW400	0445_SW400_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.02	0.12	<0.01	0.15	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW400	0445_SW400_250528	28 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.04	<0.01	0.06	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW400	0445_SW400_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.03	0.03	0.21	0.01	0.27	<0.01	<0.01	<0.05	0.09	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW401	0445_SW401_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.15	0.08	0.53	0.03	0.32	-	<0.02	<0.1	0.03	0.11	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW401	0445_SW401_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.07	0.06	0.33	<0.02	0.18	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW401	0445_SW401_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.05	0.02	0.16	<0.02	0.10	-	<0.02	<0.1	<0.02	0.03	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW401	0445_SW401_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.05	0.05	0.22	<0.02	0.11	-	<0.02	<0.1	<0.02	0.04	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW401	0445_SW401_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.13	0.10	0.68	0.03	0.40	-	<0.02	<0.1	0.04	0.13	0.03	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW401	0445_SW401_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.02	0.16	<0.01	0.20	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW401	0445_SW401_250528	28 May 2025	E8 - May 2025	1226670	Normal	0.02	0.02	0.12	<0.01	0.13	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW401	0445_QC103_251015	15 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.02	0.02	0.14	<0.01	0.16	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW401	0445_QC203_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.025	0.025	0.152	<0.010	0.198	<0.010	<0.010	<0.05	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SW401	0445_SW401_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.02	0.02	0.16	<0.01	0.21	<0.01	<0.01	<0.05	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW403	0445_SW403_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	0.09	0.07	0.33	<0.02	0.26	-	<0.02	<0.1	<0.02	0.07	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW403	0445_SW403_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	0.11	0.08	0.38	<0.02	0.20	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW403	0445_SW403_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW403	0445_SW403_230505	05 May 2023	E4 - May 2023	EM2308009	Normal	0.02	<0.02	0.13	<0.02	0.12	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW403	0445_SW403_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	0.12	0.12	0.58	0.03	0.37	-	<0.02	<0.1	0.03	0.14	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW403	0445_SW403_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.03	0.17	<0.01	0.18	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW403	0445_QC201_251013	13 Oct 2025	E9 - Oct 2025	EM2520615	Interlab_D	0.019	0.023	0.121	<0.010	0.171	<0.010	<0.010	<0.05	<0.010	0.013	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
SW403	0445_SW403_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	0.02	0.02	0.13	<0.01	0.19	<0.01	<0.01	<0.05	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW403	0445_QC101_251013	13 Oct 2025	E9 - Oct 2025	1282063	Field_D	0.02	0.02	0.14	<0.01	0.26	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW404	0445_SW404_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_SW404_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW404	0445_QC103_241126	26 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW404	0445_SW404_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW404	0445_QC203_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW404	0445_SW404_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW404	0445_SW404_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW405	0445_SW405_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	0.08	0.07	0.35	<0.02	0.16	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW405	0445_SW405_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.05	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW405	0445_SW405_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.02	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW405	0445_SW405_230506	06 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.06	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW405	0445_SW405_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	0.08	0.07	0.40	<0.02	0.26	-	<0.02	<0.1	<0.02	0.09	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW405	0445_SW405_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	0.01	0.08	<0.01	0.12	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW405	0445_SW405_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.06	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW409	0445_SW409_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_SW409_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_SW409_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.03	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_SW409_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_SW409_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.03	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_SW409_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW409	0445_QC202_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	<0.010	<0.010	<0.010	<0.010	0.018	-	<0.010	<0.050	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW409	0445_SW409_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW409	0445_QC102_241126	26 Nov 2024	E7 - Nov 2024	1166588	Field_D	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	0.09	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW409	0445_QC201_250513	13 May 2025	E8 - May 2025	MGE0347	Interlab_D	<0.010	<0.010	0.016	<0.010	0.054	-	<0.010	<0.20	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW409	0445_SW409_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW409	0445_QC101_250513	13 May 2025	E8 - May 2025	1221064	Field_D	<0.01	<0.01	0.01	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW409	0445_SW409_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.01	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW412	0445_SW412_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.07	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_230505	05 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_231026	26 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.01	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW412	0445_SW412_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	0.04	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW412	0445_SW412_250513	13 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW412	0445_SW412_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.03	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW416	0445_SW416_211111	12 Nov 2021	E1 - Nov 2021	EM2122519	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW416	0445_SW416_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW416	0445_SW416_221012	12 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW416	0445_SW416_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW416	0445_SW416_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW416	0445_SW416_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW416	0445_SW416_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW416	0445_SW416_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.001	<0.001	<0.001	<0.001	<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
SW416	0445_SW416_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.001	<0.001	<0.001	<0.001	<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
SW424	0445_QC108_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	Field_D	0.04	0.03	0.52	0.02	0.74	-	<0.02	<0.1	0.03	0.09	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	0.04	0.02	0.40	0.02	0.76	-	<0.02	<0.1	0.03	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_QC208_211115	15 Nov 2021	E1 - Nov 2021	842787	Interlab_D	0.03	0.05	0.73	0.03	1.1	<0.01	<0.01	0.06	0.04	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW424	0445_SW424_220504	04 May 2022	E2 - May 2022	EM2208383	Normal	0.03	0.04	0.48	0.03	0.80	-	<0.02	<0.1	<0.02	0.05	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	0.02	<0.02	0.19	<0.02	0.78	-	<0.02	<0.1	<0.02	0.03	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_230502	02 May 2023	E4 - May 2023	EM2308009	Normal	0.03	0.03	0.46	<0.02	0.84	-	<0.02	<0.1	0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	0.04	0.03	0.56	0.03	1.14	-	<0.02	<0.1	0.04	0.09	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW424	0445_SW424_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.01	0.02	0.23	0.01	1.7	0.01	<0.01	<0.05	0.09	0.07	0.01	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW424	0445_SW424_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.03	0.03	0.32	0.02	0.79	<0.01	<0.01	<0.05	0.05	0.08	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW427	0445_SW427_211115	15 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	0.06	<0.02	0.19	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.13	<0.02	0.40	-	<0.02	<0.1	<0.02	0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.14	<0.02	0.37	-	<0.02	<0.1	<0.02	0.02	<0.02	0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.03	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_240402	02 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW427	0445_SW427_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.03	<0.01	0.11	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW427	0445_SW427_250527	27 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW427	0445_SW427_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW430	0445_SW430_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	0.06	<0.02	0.10	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.04	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.06	<0.02	0.13	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.02	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW430	0445_SW430_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.15	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW430	0445_SW430_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW430	0445_SW430_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW431	0445_SW431_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	0.03	<0.02	0.07	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.05	<0.02	0.14	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_230502	02 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW431	0445_SW431_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW431	0445_SW431_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW431	0445_SW431_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW432	0445_SW432_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	0.03	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.03	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.02	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.02	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW432	0445_SW432_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.10	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW432	0445_SW432_250514	14 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	0.01	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW432	0445_SW432_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW434	0445_SW434_211115	15 Nov 2021	E1 - Nov 2021	EM2122999	Normal	<0.02	<0.02	0.02	<0.02	0.05	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_220506	06 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	<0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_230502	02 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	<0.01	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	Normal	<0.02	<0.02	<0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW434	0445_SW434_241125	25 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW434	0445_SW434_250514	15 May 2025	E8 - May 2025	1221064	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW434	0445_SW434_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW448	0445_SW448_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	Normal	0.06	0.05	1.14	0.04	2.09	-	<0.02	<0.1	0.12	0.25	0.03	0.07	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW448	0445_SW448_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.12	<0.02	0.31	-	<0.02	<0.1	<0.02	0.03	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW448	0445_SW448_230503	03 May 2023	E4 - May 2023	EM2308015	Normal	0.04	0.03	0.58	<0.02	1.23	-	<0.02	<0.1	0.04	0.09	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05

						PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
						Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
						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						0.001	0.001	0.001	0.001	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
PFAS in Drinking Water (ADWG 2025)						1		0.03		0.008							0.2						
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)										0.9													
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)										0.02													
PFAS NEMP 2025 Freshwater 95%																	220						
PFAS NEMP 2025 Freshwater 99%																	19						
PFAS NEMP 2025 Recreational water quality guideline								2		2							10						
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**	**Sample Type**																		
SW448	0445_QC104_230503	03 May 2023	E4 - May 2023	EM2308015	Field_D	0.04	0.03	0.60	0.02	1.28	-	<0.02	<0.1	0.04	0.09	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW448	0445_QC204_230503	03 May 2023	E4 - May 2023	987797	Interlab_D	0.03	0.03	0.57	0.02	1.5	<0.01	<0.01	<0.05	0.04	0.08	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW448	0445_SW448_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	Normal	0.44	0.19	1.81	0.06	2.56	-	<0.02	0.2	0.72	0.63	0.05	0.10	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW448	0445S_SW448_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	0.07	0.03	0.61	0.02	1.0	<0.01	<0.01	0.09	0.07	0.12	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW448	0445_QC201_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	Interlab_D	0.065	0.026	0.66	0.025	1.1	-	0.019	0.082	0.075	0.092	0.015	0.031	<0.010	<0.010	<0.010	<0.010	0.011	<0.050
SW448	0445_QC101_241126	26 Nov 2024	E7 - Nov 2024	1166588	Field_D	0.06	0.04	0.67	0.03	1.3	<0.01	<0.01	0.11	0.18	0.11	0.02	0.03	<0.01	<0.01	0.02	<0.01	<0.01	<0.01
SW448	0445_SW448_250527	27 May 2025	E8 - May 2025	1226670	Normal	0.14	0.06	0.66	0.03	1.2	<0.01	<0.01	0.14	0.16	0.28	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW462	0445_SW462_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	Normal	0.03	0.02	0.11	<0.02	0.08	-	<0.02	<0.1	<0.02	0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_QC105_220505	05 May 2022	E2 - May 2022	EM2208383	Field_D	<0.02	<0.02	0.01	<0.02	0.02	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_SW462_220505	05 May 2022	E2 - May 2022	EM2208383	Normal	<0.02	<0.02	0.02	<0.02	0.03	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_QC205_220505	05 May 2022	E2 - May 2022	886780	Interlab_D	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW462	0445_SW462_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	<0.02	<0.02	0.01	<0.02	<0.01	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_SW462_230504	04 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.01	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_SW462_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	Normal	0.05	0.05	0.26	<0.02	0.16	-	<0.02	<0.1	<0.02	0.06	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW462	0445_SW462_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW462	0445_SW462_250528	28 May 2025	E8 - May 2025	1226670	Normal	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW462	0445_SW462_251013	13 Oct 2025	E9 - Oct 2025	1282063	Normal	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW463	0445_SW463_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	0.05	0.03	0.74	0.04	1.36	-	<0.02	<0.1	0.02	0.07	<0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_SW463_220504	04 May 2022	E2 - May 2022	EM2208383	Normal	0.04	0.02	0.42	0.02	0.99	-	<0.02	<0.1	0.03	0.02	<0.02	0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_QC101_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Field_D	0.03	0.03	0.49	0.02	1.00	-	<0.02	<0.1	0.06	0.10	0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_SW463_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	Normal	0.03	0.03	0.49	0.02	1.02	-	<0.02	<0.1	0.06	0.10	<0.02	0.05	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_QC201_221011	11 Oct 2022	E3 - Oct 2022	932350	Interlab_D	0.04	0.03	0.65	0.04	1.7	<0.01	<0.01	0.07	0.09	0.14	0.03	0.06	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW463	0445_SW463_230502	02 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.07	<0.02	0.30	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_SW463_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	Normal	0.02	0.02	0.45	<0.02	0.90	-	<0.02	<0.1	0.02	0.06	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW463	0445_SW463_241126	26 Nov 2024	E7 - Nov 2024	1166588	Normal	<0.01	<0.01	0.02	<0.01	0.30	<0.01	<0.01	<0.05	0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW470	0445_SW470_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	Normal	0.02	<0.02	0.07	<0.02	0.06	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_220503	03 May 2022	E2 - May 2022	EM2208383	Normal	0.03	0.03	0.23	<0.02	0.19	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_221012	22 Oct 2022	E3 - Oct 2022	EM2220286	Normal	<0.02	<0.02	0.04	<0.02	0.04	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_230506	06 May 2023	E4 - May 2023	EM2308009	Normal	<0.02	<0.02	0.10	<0.02	0.11	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	Normal	<0.02	<0.02	0.11	<0.02	0.08	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	Normal	0.04	0.03	0.27	<0.02	0.23	-	<0.02	<0.1	<0.02	<0.02	<0.02	<0.01	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW470	0445_SW470_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.02	0.02	0.19	<0.01	0.23	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW470	0445_QC101_250528	28 May 2025	E8 - May 2025	1226670	Field_D	0.03	0.02	0.17	<0.01	0.28	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW470	0445_SW470_250528	28 May 2025	E8 - May 2025	1226670	Normal	0.03	0.02	0.18	<0.01	0.32	<0.01	<0.01	<0.05	0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW470	0445_QC201_250528	28 May 2025	E8 - May 2025	MGF0019	Interlab_D	0.039	0.027	0.23	<0.010	0.33	-	<0.010	<0.050	<0.010	0.012	0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.050
SW470	0445_SW470_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.02	0.02	0.12	<0.01	0.16	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW471	0445_SW471_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.23	0.15	1.01	0.07	0.81	-	<0.02	<0.1	0.06	0.17	0.04	0.06	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW471	0445_SW471_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.45	0.40	2.30	0.12	1.14	-	<0.02	<0.1	0.14	0.46	0.12	0.15	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW471	0445_SW471_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.12	0.11	0.76	0.04	0.64	-	<0.02	<0.1	0.04	0.12	0.02	0.04	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW471	0445_SW471_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.08	0.09	0.48	0.02	0.32	-	<0.02	<0.1	<0.02	0.08	<0.02	0.03	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW471	0445_SW471_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.25	0.19	1.38	0.08	0.96	-	<0.02	<0.1	0.07	0.28	0.05	0.08	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW471	0445_SW471_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.66	0.66	3.2	0.13	2.0	<0.01	<0.01	0.12	0.19	0.83	0.11	0.21	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW471	0445_SW471_251015	15 Oct 2025	E9 - Oct 2025	1282063	Normal	0.68	0.55	2.2	0.07	0.81	<0.01	<0.01	<0.05	0.09	0.35	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW487	0445_SW487_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	Normal	0.60	0.57	3.37	0.27	3.45	-	<0.02	0.2	0.21	0.69	0.18	0.30	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_220503	03 May 2022	E2 - May 2022	EM2208382	Normal	0.64	0.61	3.58	0.29	4.13	-	<0.02	0.1	0.25	0.86	0.19	0.32	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	Normal	0.48	0.48	3.12	0.26	4.09	-	<0.02	<0.1	0.15	0.61	0.13	0.22	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_ 230506	06 May 2023	E4 - May 2023	EM2308004	Normal	0.57	0.61	3.32	0.25	2.84	-	<0.02	0.1	0.20	0.85	0.16	0.28	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	Normal	0.47	0.51	3.48	0.24	2.90	-	<0.02	<0.1	0.21	0.82	0.15	0.26	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	Normal	0.64	0.67	4.42	0.30	4.68	-	<0.02	0.1	0.26	1.09	0.19	0.34	<0.02	<0.02	<0.02	<0.02	<0.02	<0.05
SW487	0445_SW487_241127	27 Nov 2024	E7 - Nov 2024	1166588	Normal	0.60	0.76	4.5	0.34	7.7	<0.01	<0.01	0.15	0.22	1.1	0.17	0.37	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW487	0445_SW487_250513	13 May 2025	E8 - May 2025	1221064	Normal	0.64	0.78	4.7	0.42	8.3	<0.01	<0.01	0.18	0.26	1.0	0.18	0.40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
SW487	0445_SW487_251015	15 Oct 2025	E9 - Oct 2025	1291063	Normal	0.52	0.54	3.8	0.25	4.6	<0.01	<0.01	0.12	0.20	0.86	0.15	0.29	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Environmental Standards

NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW009	0445_MW009_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.81	10.3	-	11.6
MW009	0445_MW009_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	0.08	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	9.69	13.4	-	14.9
MW009	0445_MW009_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.09	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.31	11.5	-	12.6
MW009	0445_MW009_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.32	9.35	-	10.1
MW009	0445_QC107_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.25	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	17.1	22.6	-	24.6
MW009	0445_QC207_231026	26 Oct 2023	E5 - Oct 2023	1039507	<0.01	0.21	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.3	22.07	-	24.36
MW009	0445_MW009_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.28	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	20.2	26.4	-	28.7
MW009	0445_MW009_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.16	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	15.6	20.6	-	22.7
MW009	0445_QC201_241203	03 Dec 2024	E7 - Nov 2024	MFL0268	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	4.7	6.0	-	6.5
MW009	0445E_MW009_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.2	6.4	-	7.16
MW009	0445E_MW009_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.09	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.2	14.41	-	16
MW012	0445_MW012_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.43	0.43	-	0.43
MW012	0445_MW012_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.54	0.59	-	0.62
MW012	0445_MW012_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.18	0.21	-	0.21
MW012	0445_MW012_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.31	0.31	-	0.31
MW012	0445_MW012_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.41	0.41	-	0.41
MW012	0445_MW012_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.32	0.32	-	0.32
MW012	0445E_MW012_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.13	-	0.13
MW012	0445E_MW012_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.32	-	0.4
MW016	0445_MW016_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.42	9.12	-	9.77
MW016	0445_MW016_220509	09 May 2022	E2 - May 2022	EM2208649	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	9.36	11.1	-	11.8
MW016	0445_MW016_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.78	9.39	-	10.0
MW016	0445_MW016_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.90	4.82	-	5.16
MW016	0445_MW016_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	10.4	12.6	-	13.6
MW016	0445_MW016_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.70	9.48	-	10.2
MW016	0445_QC101_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8.3	10.53	-	11.55
MW016	0445E_MW016_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.4	12.88	-	14.05
MW016	0445E_MW016_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	14.2	17.4	-	19
MW018	0445_MW018_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.67	0.73	-	0.78
MW018	0445_MW018_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.66	0.72	-	0.77
MW018	0445_MW018_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.18	-	0.18
MW018	0445_MW018_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.67	0.72	-	0.76
MW018	0445_MW018_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.81	0.90	-	0.95
MW018	0445_MW018_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.98	1.06	-	1.14
MW018	0445E_MW018_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.16	1.24	-	1.36
MW018	0445E_MW018_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.49	1.58	-	1.7
MW020	0445_MW020_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.38	3.91	-	4.16
MW020	0445_MW020_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.77	3.20	-	3.42
MW020	0445_MW020_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.42	2.74	-	2.91
MW020	0445_MW020_230506	06 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.03	2.31	-	2.47
MW020	0445_MW020_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.78	3.18	-	3.38
MW020	0445_MW020_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.67	3.02	-	3.18
MW020	0445E_MW020_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.3	3.7	-	3.93
MW020	0445E_MW020_251014	14 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.7	5.07	-	5.3
MW029	0445_MW029_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.15	1.83	-	1.98
MW029	0445_MW029_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.28	2.12	-	2.26
MW029	0445_MW029_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.87	1.20	-	1.26
MW029	0445_MW029_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.03	1.64	-	1.77
MW029	0445_MW029_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.95	1.53	-	1.63
MW029	0445_MW029_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.69	0.98	-	1.05
MW029	0445E_MW029_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.59	1.12	-	1.22
MW029	0445E_MW029_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.33	2.29	-	2.5
MW034	0445_MW034_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.46	4.33	-	4.67
MW034	0445_QC106_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.35	2.78	-	2.99
MW034	0445_MW034_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.57	3.03	-	3.25
MW034	0445_QC206_220505	05 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.3	3.82	-	4.09
MW034	0445_MW034_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.93	2.24	-	2.38
MW034	0445_QC109_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.45	1.61	-	1.70
MW034	0445_MW034_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.50	1.66	-	1.76
MW034	0445_QC209_230505	05 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.59	1.77	-	1.87
MW034	0445_MW034_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.36	1.50	-	1.58
MW034	0445_MW034_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.58	1.76	-	1.85
MW034	0445E_MW034_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.76	1.96	-	2.08
MW034	0445E_MW034_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.4	3.83	-	4.1
MW035	0445_MW035_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.45	11.0	-	12.3
MW035	0445_MW035_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	12.4	17.0	-	18.7

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW035	0445_MW035_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.18	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	14.5	19.5	-	21.5
MW035	0445_QC106_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.25	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	14.8	19.6	-	21.2
MW035	0445_MW035_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.21	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	14.7	19.3	-	21.1
MW035	0445_QC206_230505	05 May 2023	E4 - May 2023	987797	<0.01	0.21	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	15.9	20.42	-	22.75
MW035	0445_MW035_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.20	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	16.0	20.4	-	22.2
MW035	0445_MW035_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.25	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	15.5	20.1	-	21.9
MW035	0445E_MW035_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.20	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	13.8	18.79	-	20.91
MW035	0445E_MW035_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.23	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.7	23.15	-	26
MW042	0445_QC104_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.05	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	8.79	12.4	-	13.6
MW042	0445_MW042_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.07	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.66	12.6	-	14.2
MW042	QC204_211111	11 Nov 2021	E1 - Nov 2021	841785	<0.01	0.09	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.3	16.15	-	18.21
MW042	0445_MW042_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	0.18	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	15.4	21.0	-	23.1
MW042	0445_MW042_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.20	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	15.1	20.3	-	22.3
MW042	0445_MW042_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.22	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	13.6	18.0	-	19.5
MW042	0445_QC108_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.21	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	13.5	17.5	-	19.1
MW042	0445_QC208_231026	26 Oct 2023	E5 - Oct 2023	1039507	<0.01	0.18	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	13.2	16.79	-	18.82
MW042	0445_MW042_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.24	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	14.8	19.2	-	20.8
MW042	0445_MW042_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.20	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	13.6	17.4	-	18.9
MW042	0445E_MW042_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.17	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.6	15.27	-	16.86
MW042	0445E_MW042_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.15	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.5	13.53	-	15
MW042	0445_QC202_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	0.155	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	11.4	14.7	<0.010	16.2
MW042	0445_QC102_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.17	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.9	15.08	-	16
MW043	0445_MW043_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	0.16	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	12.9	19.3	-	21.9
MW043	0445_MW043_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	0.24	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	16.6	22.4	-	24.7
MW043	0445_MW043_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.23	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	16.0	20.6	-	22.4
MW043	0445_MW043_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.22	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	10.4	13.6	-	14.7
MW043	0445_MW043_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.19	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	11.2	14.3	-	15.5
MW043	0445_MW043_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.18	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	11.5	14.6	-	15.9
MW043	0445E_MW043_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.25	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	14	18.48	-	20.41
MW043	0445E_MW043_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.35	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.3	26.44	-	29
MW046_D	0445_MW046_D_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	0.11	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.50	6.98	-	7.45
MW046_D	0445_MW046_D_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	0.09	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.97	6.23	-	6.70
MW046_D	0445_MW046_D_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.77	3.25	-	3.45
MW046_D	0445_MW046_D_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.82	3.22	-	3.44
MW046_D	0445_MW046_D_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.26	4.83	-	5.11
MW046_D	0445_MW046_D_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.18	4.78	-	5.07
MW046_D	0445_QC201_241128	28 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	4.1	4.6	-	4.9
MW046_D	0445E_MW046_D_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.2	4.77	-	5.09
MW046_D	0445_QC101_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.8	5.42	-	5.75
MW046_D	0445_QC202_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	3.55	3.98	<0.010	4.25
MW046_D	0445E_MW046_D_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.7	4.1	-	4.3
MW046_D	0445_QC102_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.2	4.64	-	4.9
MW046_I	0445_MW046_I_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	0.09	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.26	6.64	-	7.13
MW046_I	0445_MW046_I_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.59	4.27	-	4.58
MW046_I	0445_MW046_I_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.98	3.44	-	3.66
MW046_I	0445_MW046_I_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.64	3.06	-	3.27
MW046_I	0445_MW046_I_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.14	4.71	-	4.96
MW046_I	0445_QC108_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.92	4.47	-	4.73
MW046_I	0445_QC208_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.6	4.15	-	4.45
MW046_I	0445_MW046_I_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.08	4.64	-	4.93
MW046_I	0445E_MW046_I_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5	5.59	-	5.91
MW046_I	0445E_MW046_I_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.9	4.27	-	4.5
MW051	0445_MW051_211110	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW051	0445_QC100_211110	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW051	QC200_211110	10 Nov 2021	E1 - Nov 2021	841785	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW051	0445_MW051_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW051	0445_QC104_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW051	0445_QC204_221012	12 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
MW051	0445_MW051_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.16	-	0.16
MW051	0445_MW051_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.25	-	0.25
MW051	0445S_MW051_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.71	5.32	-	5.7
MW051	0445S_MW051_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	2.87	3.6	-	3.9
MW052	0445_MW052_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	11.0	15.3	-	16.7
MW052	0445_MW052_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	14.4	19.9	-	21.4
MW052	0445_MW052_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	13.7	16.5	-	17.4
MW052	0445_MW052_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	19.5	26.7	-	29.1

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW052	0445_MW052_231127	27 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	16.1	21.7	-	23.6
MW052	0445_MW052_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	19.9	26.0	-	28.4
MW052	0445_MW052_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	174	235	-	261
MW052	0445_MW052_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	20.1	30.2	-	33.7
MW052	0445E_MW052_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	8.28	-	9.15
MW052	0445E_MW052_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	7.64	-	8.3
MW056	0445_MW056_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.50	2.06	-	2.32
MW056	0445_QC105_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.53	0.65	-	0.70
MW056	0445_MW056_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.08	1.35	-	1.48
MW056	0445_QC205_221012	12 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.41	1.78	-	1.95
MW056	0445_MW056_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW056	0445_MW056_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.23	1.69	-	1.89
MW056	0445_QC109_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.25	1.72	-	1.91
MW056	0445_QC209_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.14	1.63	-	1.82
MW056	0445S_MW056_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.86	2.16	-	2.28
MW302	0445_MW302_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW303	0445_MW303_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW304	0445_MW304_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW304	0445_MW304_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
MW304	0445_QC107_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
MW304	0445_QC207_220504	04 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.16	-	0.16
MW304	0445_MW304_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.62	0.85	-	0.94
MW304	0445_QC105_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.24	0.28	-	0.28
MW304	0445_MW304_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.34	0.46	-	0.46
MW304	0445_QC205_230504	04 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.4	-	0.44
MW304	0445_MW304_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW304	0445_MW304_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.51	0.78	-	0.86
MW304	0445S_MW304_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.74	1.76	-	1.76
MW304	0445S_MW304_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.95	0.95	-	1
MW305	0445S_MW305_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
MW305	0445_QC102_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
MW305	0445_QC202_251017	17 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.050	<0.010	<0.100
MW307	0445_MW307_211110	11 Nov 2021	E1 - Nov 2021	EM2122518	0.90	65.4	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	422	837	-	928
MW307	0445_QC101_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	0.91	102	<0.05	<0.05	<0.05	<0.13	<0.05	<0.13	<0.13	<0.05	<0.13	577	1,120	-	1,240
MW307	0445_MW307_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	0.90	100	<0.05	<0.05	<0.05	<0.14	<0.05	<0.14	<0.14	<0.05	<0.14	590	1,130	-	1,270
MW307	0445_QC201_211222	22 Dec 2021	E1 - Nov 2021	852797	1.5	100	0.02	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	950	1,704.02	-	1,974.05
MW307	0445_MW307_220504	04 May 2022	E2 - May 2022	EM2208381	1.10	116	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	644	1,270	-	1,440
MW307	0445_MW307_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	0.11	11.6	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	72.0	128	-	145
MW307	0445_MW307_230504	04 May 2023	E4 - May 2023	EM2308015	0.58	82.8	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	454	854	-	954
MW307	0445_MW307_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	0.90	103	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	580	1,060	-	1,180
MW307	0445_MW307_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	0.23	29.8	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	172	313	-	346
MW307	0445S_MW307_241128	28 Nov 2024	E7 - Nov 2024	1166588	0.94	130	0.03	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	780	1,412.03	-	1,646.9
MW307	0445_QC201_251017	17 Oct 2025	E9 - Oct 2025	EM2520615	0.223	25.5	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	143	267	<0.010	314
MW307	0445S_MW307_251017	17 Oct 2025	E9 - Oct 2025	1282063	0.23	14	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	170	296.5	-	350
MW307	0445_QC101_251017	17 Oct 2025	E9 - Oct 2025	1282063	0.26	15	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	168	296.6	-	350
MW311	0445_MW311_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW311	0445_MW311_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW311	0445_MW311_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW311	0445S_MW311_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
MW311	0445S_MW311_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.18	-	0.2
MW312	0445_MW312_21110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.20	-	0.22
MW312	0445_MW312_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
MW312	0445_MW312_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
MW312	0445_MW312_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.36	0.43	-	0.49
MW312	0445_MW312_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.37	0.45	-	0.48
MW312	0445_MW312_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.37	0.46	-	0.51
MW312	0445S_MW312_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.14	-	0.16
MW312	0445S_MW312_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.15	-	0.2
MW313	0445_MW313_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW313	0445_MW313_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW313	0445_MW313_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW313	0445_MW313_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW313	0445_MW313_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
MW315	0445_MW315_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW315	0445S_MW315_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW315	0445S_MW315_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.08	-	<0.1

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW317	0445S_MW317_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
MW317	0445S_MW317_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	2.81	-	2.9
MW319	0445_MW319_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.37	0.37	-	0.37
MW319	0445_QC101_211110	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.39	0.39	-	0.39
MW319	QC201_211110	10 Nov 2021	E1 - Nov 2021	841785	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.51	0.55	-	0.55
MW319	0445_MW319_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.26	0.26	-	0.26
MW319	0445_QC203_221012	12 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.28	-	0.28
MW319	0445_QC103_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.31	0.31	-	0.31
MW319	0445_QC206_231025	25 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.17	-	0.17
MW319	0445_QC106_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.21	-	0.21
MW319	0445_MW319_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.22	0.22	-	0.22
MW319	0445_QC101_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	-	<0.1
MW319	0445_QC201_241129	29 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.16	0.16	-	0.16
MW319	0445S_MW319_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.17	-	0.17
MW319	0445E_MW319_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	0.13	-	0.1
MW321	0445_MW321_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.92	0.92	-	0.96
MW321	0445_QC202_221012	12 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.09	-	<0.1
MW321	0445_QC102_20221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.70	0.70	-	0.73
MW321	0445_MW321_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.75	0.75	-	0.78
MW321	0445_QC101_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	1.06	0.59	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	570	590	-	628
MW321	0445_QC201_231128	28 Nov 2023	E5 - Oct 2023	1049115	<0.01	1.0	0.33	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	579	595.27	-	618.79
MW321	0445_MW321_231127	27 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	1.14	0.62	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	608	630	-	667
MW321	0445_MW321_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	1.68	1.46	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	984	1,020	-	1,070
MW321	0445_MW321_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	1.72	1.85	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	1,180	1,210	-	1,280
MW321	0445S_MW321_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	1.2	0.64	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1,350	1,385.88	-	1,441.48
MW321	0445S_MW321_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.94	0.62	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	680	701.08	-	740
MW323	0445_MW323_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW323	0445_MW323_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW323	0445_MW323_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW323	0445S_MW323_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW323	0445S_MW323_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
MW325	0445_MW325_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW326	0445_MW326_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.29	0.90	-	1.01
MW328	0445_MW328_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.18	0.18	-	0.18
MW328	0445_MW328_221014_DUP	14 Nov 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW329	0445_MW329_21110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.21	-	0.24
MW329	0445_QC102_211110	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.21	-	0.24
MW329	QC202_211110	10 Nov 2021	E1 - Nov 2021	841785	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.23	-	0.28
MW329	0445_MW329_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.06	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.37	0.63	-	0.73
MW329	0445_MW329_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.42	0.56	-	0.65
MW329	0445S_MW329_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.45	-	0.57
MW329	0445S_MW329_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.66	-	0.8
MW342	0445_MW342_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	9.15	11.8	-	13.0
MW342	0445_QC100_211222	22 Dec 2021	E1 - Nov 2021	EM2125903	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	9.48	12.1	-	13.2
MW342	0445_QC200_211222	22 Dec 2021	E1 - Nov 2021	852797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	12.6	16.01	-	17.88
MW342	0445_MW342_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	13.5	15.9	-	16.8
MW342	0445_QC111_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.58	10.5	-	11.3
MW342	0445_MW342_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.59	10.5	-	11.3
MW342	0445_QC211_220506	06 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.3	13.7	-	15.27
MW342	0445_MW342_221015	15 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.93	7.24	-	7.77
MW342	0445_MW342_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.81	5.75	-	6.23
MW342	0445_MW342_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.65	6.51	-	6.92
MW342	0445_MW342_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.21	6.16	-	6.55
MW342	0445N_MW342_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.6	14.78	-	16.73
MW342	0445N_MW342_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8.7	11.5	-	13
MW343	0445N_MW343_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	2.03	-	2
MW344	0445N_MW344_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
MW344	0445_QC101_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
MW344	0445_QC201_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.010	<0.050	<0.010	<0.100
MW345	0445_MW345_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.25	0.31	-	0.36
MW345	0445_MW345_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.24	0.28	-	0.31
MW345	0445_MW345_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.32	0.37	-	0.41
MW345	0445_MW345_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.32	0.37	-	0.41
MW345	0445_MW345_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.34	0.40	-	0.44
MW345	0445_MW345_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.18	0.20	-	0.22
MW345	0445N_MW345_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.24	0.27	-	0.32

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW345	0445N_MW345_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.21	-	0.2
MW346	0445_MW346_211117	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW346	0445_MW346_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW346	0445_MW346_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
MW346	0445_MW346_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW346	0445_MW346_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW346	0445_MW346_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
MW346	0445N_MW346_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW346	0445N_MW346_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
MW350_D	0445_MW350_D_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.60	0.72	-	0.77
MW350_D	0445_MW350_D_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.53	0.69	-	0.75
MW350_D	0445_MW350_D_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.62	0.80	-	0.86
MW350_D	0445_MW350_D_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.73	0.86	-	0.93
MW350_D	0445_MW350_D_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.73	0.88	-	0.93
MW350_D	0445_QC205_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.55	0.66	-	0.72
MW350_D	0445_QC105_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.63	0.76	-	0.79
MW350_D	0445_MW350_D_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.64	0.76	-	0.81
MW350_D	0445E_MW350_D_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.09	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.84	1.12	-	1.21
MW350_D	0445E_MW350_D_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.9	1.1	-	1.2
MW350_S	0445_QC105_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.29	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	48.9	65.4	-	71.0
MW350_S	0445_MW350_S_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.37	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	48.7	64.6	-	70.1
MW350_S	QC205_211111	11 Nov 2021	E1 - Nov 2021	841785	<0.01	0.43	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	69	86.58	-	95.78
MW350_S	0445_MW350_S_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	1.22	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	43.4	58.0	-	63.0
MW350_S	0445_MW350_S_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.80	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	37.2	46.6	-	50.5
MW350_S	0445_MW350_S_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	1.91	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	98.8	122	-	131
MW350_S	0445_MW350_S_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	2.38	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	140	166	-	176
MW350_S	0445_MW350_S_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	2.48	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	114	142	-	151
MW350_S	0445E_MW350_S_241203	03 Dec 2024	E7 - Nov 2024	1169993	0.01	2.6	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	73	98.9	-	105.75
MW350_S	0445E_MW350_S_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	2.3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	83	101.9	-	110
MW351	0445_MW351_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW351	0445_MW351_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW351	0445_QC100_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW351	0445_QC200_220503	03 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
MW351	0445_MW351_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW351	0445_QC107_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW351	0445_QC207_230505	05 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
MW351	0445_MW351_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
MW351	0445_MW351_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW351	0445_MW351_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
MW351	0445_QC202_241128	28 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.043	<0.050	-	<0.10
MW351	0445_QC102_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
MW351	0445E_MW351_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.047	0.077	-	0.082
MW351	0445E_MW351_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.001	<0.005	<0.001	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.051	0.077	-	0.084
MW352	0445_MW352_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW352	0445_MW352_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW352	0445_MW352_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW352	0445_MW352_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW352	0445_MW352_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW352	0445_MW352_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW352	0445E_MW352_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	0.028	-	0.03
MW352	0445E_MW352_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	0.037	-	0.039
MW353	0445_MW353_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.05	8.50	-	9.19
MW353	0445_MW353_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.93	7.08	-	7.69
MW353	0445_MW353_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.94	5.85	-	6.35
MW353	0445_MW353_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	10.1	14.1	-	15.9
MW353	0445_MW353_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	18.8	26.5	-	29.8
MW353	0445_MW353_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.93	9.65	-	10.8
MW353	0445E_MW353_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	43	58.3	-	68.4
MW354	0445_MW354_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.38	0.47	-	0.50
MW354	0445_MW354_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.24	-	0.24
MW354	0445_MW354_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
MW354	0445_MW354_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.14	0.14	-	0.14
MW354	0445_QC209_231026	26 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
MW354	0445_MW354_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
MW354	0445_QC109_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.09	0.09	-	0.09
MW354	0445_MW354_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW354	0445_QC207_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
MW354	0445_QC107_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
MW354	0445E_MW354_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	0.3	-	0.31
MW354	0445E_MW354_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.39	-	0.4
MW356	0445_MW356_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW356	0445_MW356_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
MW356	0445_MW356_230505	05 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW356	0445_MW356_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW356	0445_MW356_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
MW356	0445_MW356_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW356	0445_MW356_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW356	0445N_MW356_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
MW357	0445_MW357_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
MW357	0445_MW357_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW357	0445_MW357_221012	12 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.06	0.06	-	0.06
MW357	0445_MW357_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
MW357	0445_MW357_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
MW357	0445_MW357_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
MW357	0445_MW357_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
MW357	0445_MW357_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
MW357	0445_MW357_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
MW359	0445_MW359_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.26	0.26	-	0.26
MW360	0445_MW360_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
MW360	0445_MW360_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.11	0.11	-	0.11
MW360	0445_MW360_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
MW360	0445_MW360_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.14	0.14	-	0.14
MW360	0445_MW360_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
MW360	0445_MW360_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
MW360	0445_MW360_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.31	0.31	-	0.33
MW360	0445_QC201_250514	14 May 2025	E8 - May 2025	MGE0347	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.26	0.32	-	0.35
MW360	0445_MW360_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.36	-	0.38
MW360	0445_QC101_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.33	-	0.35
MW360	0445_MW360_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	0.26	-	0.3
MW361	0445_MW361_211111	11 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.22	-	0.22
MW361	0445_MW361_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.24	-	0.24
MW361	0445_MW361_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.11	0.11	-	0.11
MW361	0445_MW361_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.14	0.14	-	0.14
MW361	0445_MW361_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.22	-	0.22
MW361	0445_MW361_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.30	0.44	-	0.46
MW361	0445_MW361_241128	28 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.39	0.49	-	0.5
MW361	0445_MW361_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.46	-	0.49
MW361	0445_MW361_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.38	0.47	-	0.5
MW403	0445_MW403_211111	12 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	1.41	<0.05	<0.05	<0.04	<0.10	<0.04	<0.10	<0.10	<0.04	<0.10	93.9	120	-	129
MW403	0445_MW403_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	0.95	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	98.7	126	-	137
MW403	0445_MW403_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.50	0.05	<0.05	<0.03	<0.08	<0.03	<0.08	<0.08	<0.03	<0.08	87.3	105	-	112
MW403	0445_MW403_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	0.53	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	80.5	107	-	116
MW403	0445_MW403_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.68	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	103	137	-	150
MW403	0445_MW403_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.54	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	83.7	115	-	124
MW403	0445E_MW403_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.58	0.06	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	73	94.64	-	102.99
MW403	0445E_MW403_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.56	0.06	<0.01	<0.05	<0.05	<0.05	<0.05	0.15	<0.05	<0.05	75	103.62	-	120
MW404	0445_QC103_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.06	<0.05	<0.05	<0.04	<0.11	<0.04	<0.11	<0.11	<0.04	<0.11	69.3	90.7	-	96.3
MW404	QC203_211111	11 Nov 2021	E1 - Nov 2021	841785	<0.01	0.08	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	84	103.04	-	110.86
MW404	0445_MW404_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	0.06	<0.05	<0.05	<0.04	<0.10	<0.04	<0.10	<0.10	<0.04	<0.10	81.1	102	-	108
MW404	0445_MW404_220505	05 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.04	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	101	132	-	146
MW404	0445_MW404_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.07	<0.05	<0.05	<0.03	<0.08	<0.03	<0.08	<0.08	<0.03	<0.08	156	205	-	223
MW404	0445_MW404_230505	06 May 2023	E4 - May 2023	EM2308015	<0.05	0.12	<0.05	<0.05	<0.03	<0.09	<0.03	<0.09	<0.09	<0.03	<0.09	198	277	-	302
MW404	0445_MW404_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	214	276	-	300
MW404	0445_MW404_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	0.10	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	178	239	-	259
MW404	0445E_MW404_241203	03 Dec 2024	E7 - Nov 2024	1169993	<0.01	0.10	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	164	209.3	-	226.84
MW404	0445E_MW404_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.07	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	109	142.07	-	160
MW406	0445S_MW406_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
MW411	0445_MW411_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.48	1.73	-	1.87
MW411	0445_MW411_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.34	2.76	-	3.0
MW412	0445_MW412_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.7	6.21	-	6.51
MW412	0445_QC201_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	4.14	4.64	<0.010	4.94
MW412	0445_MW412_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.5	4.98	-	5.2

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
MW412	0445_QC101_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.6	5.09	-	5.4
MW413	0445_MW413_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.02	1.16	-	1.2
MW414	0445_MW414_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.61	2.86	-	3.02
MW414	0445_MW414_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.97	2.23	-	2.4
MW415	0445_MW415_250514	14 May 2025	E8 - May 2025	1221064	<0.01	0.10	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.6	15.4	-	17.25
MW415	0445_MW415_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.3	15.44	-	17
MW416	0445_MW416_230506	06 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW416	0445_MW416_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW416	0445_QC105_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
MW416	0445_QC205_231025	25 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
MW416	0445_QC102_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.09	-	<0.1
MW416	0445_QC202_241129	29 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	0.20	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.48	0.70	-	0.72
MW416	0445S_MW416_241129	29 Nov 2024	E7 - Nov 2024	1166588	<0.01	0.37	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.18	1.62	-	1.65
MW416	0445S_MW416_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	0.2	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.87	1.1	-	1.1
MW447	0445_MW447_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
MW447	0445_MW447_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.16	-	0.2
OTH019	0445_OTH019_211115	15 Nov 2021	E1 - Nov 2021	EM2122969	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.18	0.18	-	0.18
OTH019	0445_OTH019_220505	05 May 2022	E2 - May 2022	EM2208348	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
OTH019	0445_OTH019_221110	10 Nov 2022	E3 - Oct 2022	EM2222364	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
OTH019	0445_QC110_221110	10 Nov 2022	E3 - Oct 2022	EM2222364	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
OTH019	0445_QC210_221110	10 Nov 2022	E3 - Oct 2022	941104	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.15	-	0.15
OTH019	0445_OTH019_230502	02 May 2023	E4 - May 2023	EM2308003	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.16	-	0.16
OTH019	0445_OTH019_231023	23 Oct 2023	E5 - Oct 2023	EM2319355	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.22	0.22	-	0.22
OTH019	0445_OTH019_240403	03 Apr 2024	E6 - Apr 2024	EM2405436	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
OTH019	0445_OTH019_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.313	0.359	-	0.399
OTH019	0445_OTH19_251013	13 Oct 2025	E9 - Oct 2025	1291059	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.45	0.504	-	0.55
SW302	0445S_SW302_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.42	4.88	-	5.74
SW307	0445_SW307_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
SW307	0445_SW307_221013	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.25	0.27	-	0.27
SW307	0445S_SW307_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.17	-	0.19
SW310	0445_SW310_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.32	0.32	-	0.32
SW310	0445_SW310_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.46	0.55	-	0.58
SW310	0445_SW310_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW310	0445S_SW310_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.12	-	0.13
SW311	0445_SW311_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.16	2.32	-	2.37
SW311	0445_SW311_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.56	2.20	-	2.27
SW311	0445_QC100_20221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.89	2.78	-	2.85
SW311	0445_QC200_221010	10 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.4	3.56	-	3.71
SW311	0445_SW311_230506	06 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.20	0.20	-	0.20
SW311	0445S_SW311_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	0.37	-	0.39
SW313	0445_SW313_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.43	5.79	-	6.10
SW313	0445_QC111_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.13	6.55	-	6.87
SW313	0445_QC211_211117	17 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6.1	7.73	-	8.14
SW313	0445_SW313_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.97	5.13	-	5.33
SW313	0445_SW313_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.33	4.81	-	5.04
SW313	0445_SW313_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.53	8.26	-	8.61
SW313	0445S_SW313_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	31.3	38.18	-	40.12
SW316	0445_SW316_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.02	1.19	-	1.24
SW316	0445_SW316_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.37	1.55	-	1.60
SW316	0445_QC103_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.21	-	0.21
SW316	0445_SW316_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.18	0.18	-	0.18
SW316	0445_QC203_230503	03 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	0.23	-	0.23
SW316	0445S_SW316_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.33	-	0.35
SW316	0445_SW316_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.47	0.47	-	0.47
SW321	0445_SW321_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.80	6.49	-	6.75
SW321	0445_QC112_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.24	6.94	-	7.21
SW321	0445_QC212_211117	17 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.3	11.2	-	11.64
SW321	0445_SW321_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.09	7.32	-	7.47
SW321	0445_SW321_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.12	1.12	-	1.12
SW321	0445_SW321_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.67	4.82	-	4.92
SW321	0445_QC100_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.97	5.12	-	5.22
SW321	0445_QC200_230501	01 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.32	5.46	-	5.58
SW321	0445_SW321_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.51	3.61	-	3.64
SW321	0445S_SW321_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.53	0.53	-	0.53
SW322	0445_SW322_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.48	5.10	-	5.34
SW322	0445_SW322_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.01	8.25	-	8.42

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
SW322	0445_SW322_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.00	1.00	-	1.00
SW322	0445_SW322_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.81	3.93	-	4.01
SW322	0445_SW322_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.37	3.46	-	3.48
SW322	0445S_SW322_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.2	1.37	-	1.41
SW323	0445_SW323_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.94	1.09	-	1.09
SW323	0445_SW323_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.85	0.97	-	0.97
SW323	0445_SW323_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.79	0.94	-	0.94
SW323	0445_SW323_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.86	1.00	-	1.02
SW323	0445_QC203_231023	23 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.11	1.26	-	1.29
SW323	0445_SW323_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.29	1.44	-	1.46
SW323	0445_QC103_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.34	1.51	-	1.51
SW323	0445S_SW323_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.3	1.52	-	1.57
SW323	0445_SW323_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.89	1.09	-	1.13
SW323	0445_QC201_250527	27 May 2025	E8 - May 2025	MGF0019	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	1.1	1.4	-	1.4
SW323	0445_QC101_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.31	1.5	-	1.55
SW323	0445S_SW323_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.68	1.92	-	2
SW324	0445_QC110_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.23	2.66	-	2.73
SW324	0445_SW324_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.61	3.09	-	3.20
SW324	0445_QC210_211117	17 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.6	4.23	-	4.43
SW324	0445_SW324_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.20	1.33	-	1.33
SW324	0445_SW324_221010	10 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.96	2.26	-	2.33
SW324	0445_QC101_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.44	2.95	-	3.04
SW324	0445_SW324_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.46	2.98	-	3.07
SW324	0445_QC201_230501	01 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.81	3.32	-	3.44
SW324	0445_SW324_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.34	2.64	-	2.66
SW324	0445_QC204_240403	03 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.67	2.21	-	2.32
SW324	0445_QC104_240403	03 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.83	2.29	-	2.34
SW324	0445_SW324_240403	03 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.87	2.33	-	2.37
SW324	0445S_SW324_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.19	1.58	-	1.68
SW324	0445_SW324_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.87	1.07	-	1.1
SW326	0445_SW326_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	0.49	0.11	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	10.1	12.7	-	13.2
SW326	0445_SW326_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.69	0.76	-	0.76
SW326	0445_SW326_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.65	0.73	-	0.73
SW326	0445_SW326_230501	01 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.37	1.55	-	1.55
SW326	0445_SW326_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.07	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.21	3.77	-	3.90
SW326	0445_QC102_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	0.08	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.31	3.90	-	4.03
SW326	0445_QC202_231023	23 Oct 2023	E5 - Oct 2023	1039507	<0.01	0.07	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.39	3.96	-	4.13
SW326	0445_SW326_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.45	0.62	-	0.62
SW326	0445_QC100_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.45	0.62	-	0.62
SW326	0445_QC200_240402	02 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.43	0.61	-	0.67
SW326	0445S_SW326_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.14	3.57	-	3.72
SW326	0445_SW326_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
SW326	0445S_SW326_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.93	1.11	-	1.1
SW332	0445_SW332_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW332	0445_SW332_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW332	0445_SW332_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
SW332	0445_QC100_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.96	5.00	-	5.16
SW332	0445_QC200_231128	28 Nov 2023	E5 - Oct 2023	1049115	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.96	4.85	-	5.14
SW332	0445_SW332_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.30	5.35	-	5.52
SW332	0445S_SW332_241124	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	22.6	29.02	-	31.95
SW332	0445_SW332_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.1	-	0.11
SW333	0445_SW333_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.84	1.14	-	1.19
SW333	0445_SW333_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
SW333	0445_SW333_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.58	0.67	-	0.67
SW333	0445_SW333_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.16	-	0.16
SW333	0445_SW333_231128	28 Nov 2023	E5 - Oct 2023	EM2321318	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.69	0.85	-	0.85
SW333	0445S_SW333_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.77	2.07	-	2.19
SW333	0445_SW333_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3	4.31	-	4.83
SW336	0445_SW336_211115	15 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	0.35	0.83	0.14	0.03	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.71	9.61	-	10.5
SW336	0445_SW336_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	0.90	1.44	1.19	0.11	<0.09	<0.04	<0.09	<0.09	<0.04	<0.09	8.18	12.6	-	15.9
SW336	0445_QC106_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.25	0.47	<0.05	0.04	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.21	6.53	-	6.93
SW336	0445_SW336_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	0.27	0.53	<0.05	0.05	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.63	8.08	-	8.57
SW336	0445_QC206_221014	14 Oct 2022	E3 - Oct 2022	932350	<0.01	0.33	0.58	0.04	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	7.6	9.44	-	10.12
SW336	0445_SW336_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	1.28	0.77	0.16	0.03	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.93	10.4	-	11.4
SW336	0445_SW336_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	1.09	0.96	0.32	0.04	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	15.9	22.6	-	24.8
SW336	0445S_SW336_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	1.2	1.3	0.13	0.09	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	16.8	24.24	-	26.63

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
SW336	0445_SW336_250515	15 May 2025	E8 - May 2025	1221064	<0.01	0.58	0.94	0.03	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.9	37.1	-	40.28
SW338	0445_SW338_211109	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.31	1.67	-	1.70
SW338	0445_SW338_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.00	1.22	-	1.25
SW338	0445_SW338_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.70	0.89	-	0.91
SW338	0445_QC107_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.79	0.96	-	0.98
SW338	0445_QC207_221014	14 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.03	1.28	-	1.33
SW338	0445_SW338_230502	02 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.71	0.90	-	0.92
SW338	0445_QC102_230502	02 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.75	0.95	-	0.98
SW338	0445_QC202_230502	02 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.91	1.13	-	1.17
SW338	0445_SW338_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.20	1.48	-	1.51
SW338	0445_SW338_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.81	1.06	-	1.09
SW338	0445S_SW338_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.13	1.41	-	1.56
SW338	0445_QC201_250515	15 May 2025	E8 - May 2025	MGE0347	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.99	1.3	-	1.3
SW338	0445_SW338_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	1.44	-	1.49
SW338	0445_QC101_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.31	1.52	-	1.57
SW338	0445_QC103_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.27	1.56	-	1.6
SW338	0445_QC203_251016	16 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	1.31	1.60	<0.010	1.66
SW338	0445S_SW338_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.43	1.73	-	1.8
SW340	0445_SW340_211109	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	5.86	7.29	-	7.61
SW340	0445_QC108_20221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.91	1.10	-	1.14
SW340	0445_SW340_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.98	1.18	-	1.22
SW340	0445_QC208_221014	14 Oct 2022	E3 - Oct 2022	932350	<0.01	0.05	0.03	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.59	1.94	-	2.05
SW340	0445_SW340_230502	02 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.50	1.77	-	1.85
SW340	0445_SW340_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.49	3.13	-	3.29
SW340	0445S_SW340_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	0.07	0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.47	5.84	-	6.77
SW346	0445_SW346_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.94	1.20	-	1.23
SW346	0445_SW346_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.86	1.05	-	1.05
SW346	0445_SW346_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.07	1.31	-	1.37
SW346	0445_SW346_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.83	1.02	-	1.04
SW346	0445_SW346_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.50	1.88	-	1.96
SW346	0445_SW346_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.03	1.34	-	1.38
SW346	0445S_SW346_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.31	1.59	-	1.67
SW346	0445_SW346_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.46	1.88	-	1.99
SW346	0445S_SW346_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.66	2.15	-	2.3
SW349	0445_QC106_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.73	0.98	-	1.00
SW349	0445_SW349_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.82	1.06	-	1.09
SW349	0445_QC206_211115	15 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.06	1.43	-	1.51
SW349	0445_QC103_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.61	0.73	-	0.73
SW349	0445_SW349_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.61	0.74	-	0.74
SW349	0445_QC203_220504	04 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.67	0.83	-	0.87
SW349	0445_SW349_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.63	0.78	-	0.80
SW349	0445_SW349_230502	02 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.59	0.71	-	0.71
SW349	0445_QC200_231023	23 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.79	0.97	-	1
SW349	0445_QC100_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.85	1.10	-	1.12
SW349	0445_SW349_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.86	1.09	-	1.12
SW349	0445_QC101_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.09	1.41	-	1.44
SW349	0445_SW349_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.10	1.42	-	1.46
SW349	0445_QC201_240402	02 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	1.56	-	1.66
SW349	0445S_SW349_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.56	1.88	-	2
SW349	0445_SW349_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.36	1.77	-	1.89
SW349	0445S_SW349_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.52	1.97	-	2.1
SW355	0445_QC107_211117	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.29	0.36	-	0.36
SW355	0445_SW355_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.30	0.36	-	0.36
SW355	0445_QC207_211117	17 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.39	0.51	-	0.52
SW355	0445_SW355_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
SW355	0445_QC104_220504	04 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.24	0.25	-	0.25
SW355	0445_QC104_220504	04 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.24	0.25	-	0.25
SW355	0445_QC204_220504	04 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.37	-	0.37
SW355	0445_QC204_220504	04 May 2022	E2 - May 2022	898569	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.37	-	0.37
SW355	0445_SW355_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.28	0.28	-	0.28
SW355	0445_SW355_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
SW355	0445_QC201_231023	23 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.21	0.26	-	0.26
SW355	0445_SW355_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.27	0.28	-	0.28
SW355	0445_QC101_231023	23 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.28	0.30	-	0.30
SW355	0445_SW355_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.28	0.30	-	0.30
SW355	0445S_SW355_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.44	0.54	-	0.55

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**															
SW355	0445_SW355_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.23	0.27	-	0.27
SW355	0445S_SW355_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.22	-	0.2
SW370	0445_SW370_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.30	0.33	-	0.33
SW370	0445_SW370_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
SW370	0445_QC109_20221015	15 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.20	0.20	-	0.20
SW370	0445_SW370_221015	15 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.20	0.20	-	0.20
SW370	0445_QC209_221015	15 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	0.29	-	0.29
SW370	0445_SW370_230504	04 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW370	0445_SW370_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.16	-	0.16
SW370	0445N_SW370_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.18	-	0.18
SW370	0445_SW370_250528	28 May 2025	E8 - May 2025	1226670	<0.01	0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.14	-	0.14
SW374	0445_SW374_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
SW374	0445_SW374_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
SW374	0445_SW374_221014	15 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW374	0445_SW374_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW374	0445_SW374_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
SW374	0445_SW374_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.09	0.09	-	0.09
SW374	0445N_SW374_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
SW374	0445_SW374_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
SW374	0445N_SW374_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.17	-	0.2
SW375	0445_SW375_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
SW375	0445_SW375_220506	06 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW375	0445_SW375_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW375	0445_SW375_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
SW375	0445_SW375_231026	26 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW375	0445_QC110_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW375	0445_SW375_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
SW375	0445_QC210_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.09	-	<0.1
SW375	0445N_SW375_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
SW375	0445_SW375_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
SW375	0445N_SW375_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.11	0.15	-	0.2
SW379	0445_SW379_21116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.58	1.01	-	1.07
SW379	0445_SW379_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.20	-	0.20
SW379	0445E_SW379_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.92	1.32	-	1.52
SW380	0445_SW380_211108	10 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.43	0.57	-	0.59
SW380	0445_SW380_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.20	0.20	-	0.20
SW380	0445_SW380_230506	06 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.11	0.11	-	0.11
SW380	0445E_SW380_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.13	-	0.13
SW382	0445_QC109_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_QC209_211116	16 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW382	0445_SW382_211116	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_SW382_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_SW382_221013	13 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_SW382_230505	05 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_QC104_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_QC204_231025	25 Oct 2023	E5 - Oct 2023	1039507	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW382	0445_SW382_231025	25 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW382	0445_QC106_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	0.02	-	0.02
SW382	0445_QC206_240404	04 Apr 2024	E6 - Apr 2024	1086312	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	0.05	-	<0.1
SW382	0445_SW382_240404	04 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	0.02	-	0.02
SW382	0445E_SW382_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW382	0445_SW382_250515	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
SW382	0445E_SW382_251016	16 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW387	0445_SW387_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.24	-	0.24
SW387	0445_QC101_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW387	0445_QC201_220503	03 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.11	-	0.11
SW387	0445_SW387_220503	03 May 2022	E2 - May 2022	EM2208381	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW387	0445_QC201_220708	08 Jul 2022	E2 - May 2022	904823	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.33	0.44	-	0.51
SW387	0445_SW387_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.26	0.26	-	0.26
SW387	0445_SW387_230508	08 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW387	0445_SW387_231027	27 Oct 2023	E5 - Oct 2023	EM2319356	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.29	0.33	-	0.33
SW387	0445_SW387_240405	05 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.33	0.38	-	0.40
SW387	0445E_SW387_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
SW387	0445_QC202_250513	13 May 2025	E8 - May 2025	MGE0347	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.43	0.54	-	0.60
SW387	0445_QC102_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.45	0.53	-	0.58
SW387	0445_SW387_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.49	0.56	-	0.61

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
SW387	0445E_SW387_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.52	0.6	-	0.7
SW388	0445_SW388_211116	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.48	0.54	-	0.54
SW388	0445_SW388_221210	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.12	0.12	-	0.12
SW388	0445E_SW388_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
SW388	0445_SW388_250529	29 May 2025	E8 - May 2025	1226670	<0.01	0.35	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.41	-	0.41
SW388	0445E_SW388_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.12	-	0.1
SW390	0445_SW390_211109	09 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW390	0445_SW390_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW390	0445_SW390_250513	13 May 2025	E8 - May 2025	1221064	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
SW390	0445_SW390_131013	17 Oct 2025	E9 - Oct 2025	1282063	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
SW393	0445_SW393_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_221110	10 Nov 2022	E3 - Oct 2022	EM2222367	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW393	0445_SW393_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW393	0445_SW393_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW393	0445_SW393_251017	17 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW395	0445_SW395_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.22	-	0.22
SW395	0445_SW395_220509	09 May 2022	E2 - May 2022	EM2208629	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW395	0445_SW395_221110	10 Nov 2022	E3 - Oct 2022	EM2222367	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.38	0.41	-	0.43
SW395	0445_SW395_230506	06 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.06	0.06	-	0.06
SW395	0445_SW395_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW395	0445_SW395_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.15	0.15	-	0.15
SW395	0445_SW395_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.16	-	0.16
SW395	0445_QC202_241127	27 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.073	0.073	-	<0.10
SW395	0445_QC102_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.1	-	0.1
SW395	0445_SW395_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.16	0.19	-	0.19
SW395	0445_SW395_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.12	-	0.1
SW396	0445_SW396_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.51	1.88	-	2.02
SW396	0445_SW396_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.22	2.75	-	2.99
SW396	0445_SW396_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.10	1.30	-	1.40
SW396	0445_SW396_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.63	2.04	-	2.27
SW396	0445_SW396_231027	27 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.97	2.45	-	2.63
SW396	0445_QC201_241204	04 Dec 2024	E7 - Nov 2024	MFL0268	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	2.6	3.4	-	3.8
SW396	0445_QC101_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.92	3.86	-	4.32
SW396	0445_SW396_241204	04 Dec 2024	E7 - Nov 2024	1169993	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.95	3.86	-	4.3
SW396	0445_SW396_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.4	5.78	-	6.5
SW397	0445_SW397_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.64	8.85	-	9.62
SW397	0445_SW397_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.31	10.7	-	11.7
SW397	0445_SW397_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.53	8.34	-	9.09
SW397	0445_SW397_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.20	8.39	-	9.25
SW397	0445_SW397_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.79	8.78	-	9.56
SW397	0445_SW397_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	8.92	11.7	-	12.8
SW397	0445_SW397_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6.8	9.05	-	10.25
SW397	0445_SW397_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.7	13.57	-	15.03
SW397	0445_SW397_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	9.8	12.32	-	13
SW398	0445_SW398_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW398	0445_SW398_220503	03 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW398	0445_SW398_221012	12 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW398	0445_SW398_230506	06 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW398	0445_SW398_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW398	0445_SW398_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW398	0445_SW398_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW398	0445_SW398_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW398	0445_SW398_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW400	0445_SW400_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.51	2.06	-	2.25
SW400	0445_SW400_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.55	0.70	-	0.75
SW400	0445_SW400_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.57	0.70	-	0.77
SW400	0445_SW400_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.32	0.37	-	0.40

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
SW400	0445_SW400_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.57	2.10	-	2.29
SW400	0445_SW400_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.49	1.83	-	2.00
SW400	0445_SW400_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.27	0.32	-	0.34
SW400	0445_SW400_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.1	0.11	-	0.11
SW400	0445_SW400_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.48	0.63	-	0.7
SW401	0445_SW401_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.85	1.20	-	1.31
SW401	0445_SW401_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.51	0.66	-	0.72
SW401	0445_SW401_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.26	0.34	-	0.36
SW401	0445_SW401_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.33	0.43	-	0.48
SW401	0445_SW401_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.08	1.45	-	1.58
SW401	0445_SW401_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.36	0.41	-	0.43
SW401	0445_SW401_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.25	0.28	-	0.3
SW401	0445_QC103_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.32	-	0.4
SW401	0445_QC203_251015	15 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.350	0.390	<0.010	0.415
SW401	0445_SW401_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.37	0.48	-	0.5
SW403	0445_SW403_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.59	0.77	-	0.84
SW403	0445_SW403_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.58	0.76	-	0.84
SW403	0445_SW403_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW403	0445_SW403_230505	05 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.25	0.27	-	0.27
SW403	0445_SW403_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.95	1.30	-	1.45
SW403	0445_SW403_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.4	-	0.43
SW403	0445_QC201_251013	13 Oct 2025	E9 - Oct 2025	EM2520615	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.292	0.324	<0.010	0.347
SW403	0445_SW403_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.4	-	0.4
SW403	0445_QC101_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.4	0.44	-	0.5
SW404	0445_SW404_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_211117	17 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_SW404_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW404	0445_QC103_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW404	0445_SW404_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW404	0445_QC203_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	<0.010	<0.050	-	<0.10
SW404	0445_SW404_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW404	0445_SW404_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW405	0445_SW405_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.51	0.67	-	0.74
SW405	0445_SW405_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.13	-	0.13
SW405	0445_SW405_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW405	0445_SW405_230506	06 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.11	0.11	-	0.11
SW405	0445_SW405_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.66	0.86	-	0.93
SW405	0445_SW405_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.2	0.2	-	0.21
SW405	0445_SW405_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.15	-	0.2
SW409	0445_SW409_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW409	0445_SW409_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW409	0445_SW409_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.09	0.09	-	0.09
SW409	0445_SW409_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW409	0445_SW409_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.09	0.09	-	0.09
SW409	0445_SW409_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW409	0445_QC202_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.018	<0.050	-	<0.10
SW409	0445_SW409_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
SW409	0445_QC102_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	0.12	-	0.12
SW409	0445_QC201_250513	13 May 2025	E8 - May 2025	MGE0347	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.070	0.070	-	<0.010
SW409	0445_SW409_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.09	-	<0.1
SW409	0445_QC101_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.09	0.1	-	0.1
SW409	0445_SW409_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.09	-	<0.1
SW412	0445_SW412_211112	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW412	0445_SW412_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.11	0.11	-	0.11
SW412	0445_SW412_221015	15 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW412	0445_SW412_230505	05 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW412	0445_SW412_231026	26 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW412	0445_SW412_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW412	0445_SW412_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	0.05	-	<0.1
SW412	0445_SW412_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.07	-	<0.1
SW412	0445_SW412_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.11	-	0.1
SW416	0445_SW416_211111	12 Nov 2021	E1 - Nov 2021	EM2122519	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	Field ID	Date	Sampling Event	Lab Report Number															
SW416	0445_SW416_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW416	0445_SW416_221012	12 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW416	0445_SW416_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW416	0445_SW416_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW416	0445_SW416_240404	04 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW416	0445_SW416_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW416	0445_SW416_250514	14 May 2025	E8 - May 2025	1221064	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
SW416	0445_SW416_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
SW424	0445_QC108_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.26	1.45	-	1.50
SW424	0445_SW424_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.16	1.32	-	1.36
SW424	0445_QC208_211115	15 Nov 2021	E1 - Nov 2021	842787	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.83	2.12	-	2.22
SW424	0445_SW424_220504	04 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.28	1.38	-	1.45
SW424	0445_SW424_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.97	1.03	-	1.03
SW424	0445_SW424_230502	02 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.30	1.43	-	1.46
SW424	0445_SW424_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.70	1.91	-	1.97
SW424	0445_SW424_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW424	0445_SW424_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.93	2.14	-	2.18
SW424	0445_SW424_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.11	1.32	-	1.38
SW427	0445_SW427_211115	15 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.25	0.25	-	0.25
SW427	0445_SW427_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW427	0445_SW427_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.53	0.56	-	0.56
SW427	0445_SW427_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.51	0.54	-	0.54
SW427	0445_SW427_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.14	0.14	-	0.14
SW427	0445_SW427_240402	02 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW427	0445_SW427_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.14	0.16	-	0.16
SW427	0445_SW427_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	-	<0.1
SW427	0445_SW427_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.09	-	<0.1
SW430	0445_SW430_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.16	0.16	-	0.16
SW430	0445_SW430_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW430	0445_SW430_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.17	0.17	-	0.17
SW430	0445_SW430_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.19	-	0.19
SW430	0445_SW430_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW430	0445_SW430_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW430	0445_SW430_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.17	0.19	-	0.19
SW430	0445_SW430_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
SW430	0445_SW430_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.02	<0.05	-	<0.1
SW431	0445_SW431_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.10	0.10	-	0.10
SW431	0445_SW431_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW431	0445_SW431_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.19	-	0.19
SW431	0445_SW431_230502	02 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW431	0445_SW431_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW431	0445_SW431_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.04	0.04	-	0.04
SW431	0445_SW431_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.1	-	0.12
SW431	0445_SW431_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.05	-	<0.1
SW431	0445_SW431_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.07	-	<0.1
SW432	0445_SW432_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW432	0445_SW432_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW432	0445_SW432_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.09	0.09	-	0.09
SW432	0445_SW432_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.06	0.06	-	0.06
SW432	0445_SW432_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW432	0445_SW432_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW432	0445_SW432_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.14	-	0.14
SW432	0445_SW432_250514	14 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.07	-	<0.1
SW432	0445_SW432_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.08	-	<0.1
SW434	0445_SW434_211115	15 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.07	0.07	-	0.07
SW434	0445_SW434_220506	06 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.02	0.02	-	0.02
SW434	0445_SW434_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW434	0445_SW434_230502	02 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW434	0445_SW434_231025	25 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW434	0445_SW434_240403	03 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	<0.01	<0.01	-	<0.01
SW434	0445_SW434_241125	25 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
SW434	0445_SW434_250514	15 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW434	0445_SW434_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
SW448	0445_SW448_211115	16 Nov 2021	E1 - Nov 2021	EM2122998	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.23	3.76	-	3.85
SW448	0445_SW448_221014	14 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.43	0.46	-	0.46
SW448	0445_SW448_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.81	2.01	-	2.04

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
					4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
					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					0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.01	0.005
PFAS in Drinking Water (ADWG 2025)																			
ANZG Freshwater Toxicant DGVs LOSP 95% (March 2026)																			
ANZG Freshwater Toxicant DGVs LOSP 99% (March 2026)																			
PFAS NEMP 2025 Freshwater 95%																			
PFAS NEMP 2025 Freshwater 99%																			
PFAS NEMP 2025 Recreational water quality guideline																2			
Location Code	**Field ID**	**Date**	**Sampling Event**	**Lab Report Number**															
SW448	0445_QC104_230503	03 May 2023	E4 - May 2023	EM2308015	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.88	2.08	-	2.13
SW448	0445_QC204_230503	03 May 2023	E4 - May 2023	987797	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.07	2.27	-	2.34
SW448	0445_SW448_240402	02 Apr 2024	E6 - Apr 2024	EM2405446	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	4.37	6.51	-	6.76
SW448	0445S_SW448_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.61	2.01	-	2.14
SW448	0445_QC201_241126	26 Nov 2024	E7 - Nov 2024	MFL0040	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	1.8	2.1	-	2.2
SW448	0445_QC101_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.97	2.48	-	2.65
SW448	0445_SW448_250527	27 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.86	2.69	-	2.95
SW462	0445_SW462_211111	11 Nov 2021	E1 - Nov 2021	EM2122518	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.24	-	0.26
SW462	0445_QC105_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.03	0.03	-	0.03
SW462	0445_SW462_220505	05 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW462	0445_QC205_220505	05 May 2022	E2 - May 2022	886780	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
SW462	0445_SW462_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.01	0.01	-	0.01
SW462	0445_SW462_230504	04 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.05	0.05	-	0.05
SW462	0445_SW462_231024	24 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.42	0.55	-	0.60
SW462	0445_SW462_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.08	0.08	-	<0.1
SW462	0445_SW462_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
SW462	0445_SW462_251013	13 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	0.09	-	<0.1
SW463	0445_SW463_211115	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.10	2.28	-	2.35
SW463	0445_SW463_220504	04 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.41	1.52	-	1.56
SW463	0445_QC101_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.49	1.75	-	1.80
SW463	0445_SW463_221011	11 Oct 2022	E3 - Oct 2022	EM2220271	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.51	1.75	-	1.80
SW463	0445_QC201_221011	11 Oct 2022	E3 - Oct 2022	932350	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	2.35	2.78	-	2.88
SW463	0445_SW463_230502	02 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.37	0.37	-	0.37
SW463	0445_SW463_231023	23 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.35	1.48	-	1.50
SW463	0445_SW463_241126	26 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.32	0.37	-	0.37
SW470	0445_SW470_211116	16 Nov 2021	E1 - Nov 2021	EM2122999	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.13	0.15	-	0.15
SW470	0445_SW470_220503	03 May 2022	E2 - May 2022	EM2208383	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.42	0.45	-	0.48
SW470	0445_SW470_221012	22 Oct 2022	E3 - Oct 2022	EM2220286	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.08	0.08	-	0.08
SW470	0445_SW470_230506	06 May 2023	E4 - May 2023	EM2308009	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.21	0.21	-	0.21
SW470	0445_SW470_231027	27 Oct 2023	E5 - Oct 2023	EM2319354	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.19	0.19	-	0.19
SW470	0445_SW470_240405	05 Apr 2024	E6 - Apr 2024	EM2405435	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.50	0.54	-	0.57
SW470	0445_SW470_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.42	0.45	-	0.48
SW470	0445_QC101_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.45	0.51	-	0.54
SW470	0445_SW470_250528	28 May 2025	E8 - May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.5	0.57	-	0.6
SW470	0445_QC201_250528	28 May 2025	E8 - May 2025	MGF0019	<0.010	<0.050	<0.010	<0.010	<0.050	<0.050	<0.050	<0.050	<0.10	<0.050	<0.50	0.56	0.62	-	0.65
SW470	0445_SW470_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.28	0.33	-	0.4
SW471	0445_SW471_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.82	2.38	-	2.60
SW471	0445_SW471_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	3.44	4.76	-	5.28
SW471	0445_SW471_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	1.40	1.74	-	1.89
SW471	0445_SW471_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	0.80	0.99	-	1.10
SW471	0445_SW471_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	2.34	3.07	-	3.34
SW471	0445_SW471_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	5.2	7.32	-	8.37
SW471	0445_SW471_251015	15 Oct 2025	E9 - Oct 2025	1282063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.01	4.24	-	5.1
SW487	0445_SW487_211116	16 Nov 2021	E1 - Nov 2021	EM2122968	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.82	9.00	-	9.84
SW487	0445_SW487_220503	03 May 2022	E2 - May 2022	EM2208382	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.71	10.1	-	11.0
SW487	0445_SW487_221012	12 Oct 2022	E3 - Oct 2022	EM2220270	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	7.21	8.80	-	9.54
SW487	0445_SW487_ 230506	06 May 2023	E4 - May 2023	EM2308004	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.16	8.32	-	9.18
SW487	0445_SW487_231025	25 Oct 2023	E5 - Oct 2023	EM2319357	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	6.38	8.29	-	9.04
SW487	0445_SW487_240405	05 Apr 2024	E6 - Apr 2024	EM2405437	<0.05	<0.05	<0.05	<0.05	<0.02	<0.05	<0.02	<0.05	<0.05	<0.02	<0.05	9.10	11.7	-	12.7
SW487	0445_SW487_241127	27 Nov 2024	E7 - Nov 2024	1166588	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	12.2	14.81	-	16.17
SW487	0445_SW487_250513	13 May 2025	E8 - May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	13	15.66	-	17.11
SW487	0445_SW487_251015	15 Oct 2025	E9 - Oct 2025	1291063	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8.4	10.54	-	12

Environmental Standards

NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

Appendix C OMP SAQP – May 2025 (JBS&G 2025e)

Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP)

Department of Defence

Report

JBS&G | 61395 | 163,009 – FINAL (Rev 2)

5 September 2025

JBS&G

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

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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Appendices

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Appendix A **PFAS Sampling Guidance**

Appendix B **HydraSleeve™ Standard Operating Procedure**

Appendix C **Water Volume Length in Monitoring Wells Previously Sampled**

Abbreviations

Term	Definition
AFFF	Aqueous Film Forming Foam
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended in 2013)
BMA	Bandiana Military Area
BoM	Bureau of Meteorology
COC	Chain of Custody
CSM	Conceptual Site Model
CSR	Contaminated Sites Record
DCMM	Defence Contamination Management Manual
DO	Dissolved Oxygen
DQI	Data Quality Indicator
DQO	Data Quality Objective
DSI	Detailed Site Investigation
EC	Electrical Conductivity
ECC	Environmental Clearance Certificate
EPA	Environment Protection Authority Victoria
ERA	Environment Reference Standards
HDPE	High-density polyethylene
HSEMP	Health, Safety and Environmental Management
HHERA	Human Health an Ecological Risk Assessment
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
mbgl	Metres below ground level
mBTOC	M below top of case
NAPL	Non-aqueous phase liquids
NATA	National Association of Testing Authorities
NEMP	Heads of EPAs Australia and New Zealand (HEPA), PFAS National Environmental Management Plan – Version 2; January 2020
NHRMC	National Health and Medical Research Council
OMP	Ongoing Monitoring Plan
OMR	Ongoing Monitoring Report
ORP	Oxidation reduction potential
PFAS	Per- and Poly-fluoroalkyl Substances
PFBS	Perfluorobutanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
pH	Potential of Hydrogen

Term	Definition
PMAP	PFAS Area Management Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
RRP	Riverina Redevelopment Program
SWMS	Safe Work Method Statement
SWL	Standing Water Level
SAQP	Sampling, Analysis and Quality Plan
USEPA	United States Environment Protection Authority
WA DER	Western Australia Department of Water and Environmental Regulation
WTP	Water Treatment Plant

1. Introduction

JBS&G Australia Pty Ltd (JBS&G) has been engaged by the Department of Defence (Defence, the client) to provide this Sampling and Analysis Quality Plan (SAQP) for the Ongoing Monitoring Plan (OMP) component of work on and around the Bandiana Military Area, Victoria (the base) as part of the PFAS Management Area Plan (PMAP) Delivery Services. These works are part of a National Defence program to understand the nature and extent of per- and poly-fluoroalkyl substances (PFAS) contamination resulting from the historical use of Aqueous Film Forming Foam (AFFF) on and adjacent to identified Defence properties across Australia.

BMA, that is the subject of this work, is located adjacent to the New South Wales–Victorian State border south east of Wodonga, Victoria. The base itself comprises three areas, the boundaries of which have been provided in **Figure 1**:

- Gaza Ridge Barracks (North Bandiana);
- Gaza Ridge Barracks (South Bandiana); and
- Wadsworth Barracks (East Bandiana).

The Management Area has also been shown in **Figure 1** and comprises the base along with off-base areas including Jack in the Box Creek, Kiewa River and their associated floodplains. The Management Area was derived based on the results of previous environmental investigations and relate to pathways in surface water and groundwater for potential PFAS contamination derived from the base.

This SAQP applies to surface water and groundwater monitoring locations on the base and within the surrounding Management Area.

The base is located on Commonwealth Land and is regulated under Commonwealth environmental legislation.

The Revised OMP[1] (Defence 2025) outlines the rationale and scope for the monitoring of the concentrations and extent of PFAS in surface water and groundwater at and around the base. Findings from the OMP monitoring will be used to assess changes to the nature and extent of PFAS where there is an identified risk of harm to a receptor or a potential future risk to a receptor.

This SAQP is an updated version of the previous OMP SAQP[2] (JBS&G 2024c) and reflects the amendments made to the OMP program as documented within the Revised OMP (Defence 2025).

1.1 Scope and Objectives

The objective of this SAQP is to present the specific monitoring locations, sampling methodologies and quality control/quality assurance (QA/QC) measures to assess PFAS concentration and extent in surface water and groundwater within the base and the surrounding Management Area.

These findings will inform risk management decisions by Defence and the Victorian Government to protect human health and the environment.

The objectives of the OMP is to provide information on changes in PFAS contamination originating from a Defence base to inform risk management decisions by Defence and State/Territory agencies to protect human health and the environment.

The scope of the monitoring specified in the OMP includes:

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[1] Bandiana Military Area, PFAS Ongoing Monitoring Plan. March 2025 (Defence 2025).

[2] Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP). Document Number 61395/163,009 – Rev 0. JBS&G Australia Pty Ltd. 22 November 2024 (JBS&G 2024c).

- Evaluate changes in risk from PFAS in surface water and groundwater associated with base sources of PFAS;
- Monitor the migration of PFAS in surface water and groundwater from the base;
- Evaluate the nature and extent of PFAS impact in surface water and groundwater;
- Provide confirmation of the current understanding of risks from PFAS within surface water and groundwater; and
- Where relevant, provide supporting data for assessment of PFAS management actions.

1.2 Relevant Guidelines

This SAQP has been prepared in general accordance with current 'industry standards' for site investigation to address the scope and objectives of the SAQP. These standards are set out in:

- AS4482.1-2005, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soils, Part 1 - Non-volatile and Semi-volatile Compounds (withdrawn as pending revision, referred to for 'state of knowledge'). (AS 2005);
- Australian/New Zealand Standard AS/NZS 5667.6:1998 Water Quality – Sampling, Part 6: Guidance on Sampling Rivers and Streams. (AS/NZS 1998);
- Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance – Routine Water Quality Monitoring. (Defence 2019);
- Contamination Management Manual (DCMM), Annex L – Data Management, August 2019, Amended June 2021. (Defence 2021b);
- Quality System Manual Schedule B15 USEPA DQO Process. (Department of Defence, Department of Energy 2018);
- Groundwater Sampling Guidelines, Publication 669.1, February 2022. (Environment Protection Authority Victoria (EPA) 2022);
- Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication 701, June 2009. (EPA 2009);
- PFAS National Environmental Management Plan (NEMP) Version 3.0, March 2025. (Heads of Environmental Protection Authority's Australia and New Zealand (HEPA) 2025);
- National Environmental Protection (Assessment of Site Contamination) Measure (1999, as amended 2013) (ASC NEPM). (National Environment Protection Council (NEPC) 2013);
- Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water, August 2019. (National Health and Medical Research Council (NHMRC) 2019);
- Sampling Design Part 1 – Application, Contaminated Land Guidelines. August 2022. (NSW EPA 2022a);
- Sampling Design Part 2 – Interpretation, Contaminated Land Guidelines. August 2022. (NSW EPA 2022b);
- Guidance for the Data Quality Objectives Process (EPA QA/G-4). (United States Environment Protection Authority (USEPA) 2006);
- Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8). (USEPA 2002); and
- Interim Guideline on the Assessment and Management of Perfluoroalkyl and Polyfluoroalkyl Substances, Western Australia Department of Water and Environmental Regulation (WA DER) (WA DER 2017).

2. Base and Management Area Setting

The following base and environmental setting information has been summarised from previous investigations across the base.

2.1 Base Identification Details

The base is located approximately 255 kilometres (km) northeast of Melbourne and is adjacent to the New South Wales–Victorian State border. It is located on the eastern fringe of the large town of Wodonga. The base details have been summarised in the following **Table 2.1** below. The base boundary has been provided in **Figure 1**.

Table 2.1: Base Identification Details

Item	Details
Base Address	Murray Valley Highway, Bandiana
Base Area	650 hectares
Owner and Occupier	Department of Defence
Municipality	Wodonga City Council
Legal Description	North Bandiana – 2 PS437772, 1 and 2 TP849697 South Bandiana – 1, 2 and 3 TP849698, 3 PS420756 and 2 PS420756 East Bandiana – 1 TP849660, 1 TP139782 and 1 TP81825
Zoning	Commonwealth Land under the Wodonga Planning Scheme Amendment C120

2.2 Base Use and Features

The base is primarily used for administration, accommodation, training, equipment maintenance and storage and warehousing/logistics associated with Defence activities. The general land uses and features present across each area of the site has been provided in **Table 2.2**.

Table 2.2: Site Use and Features

Item	Details
South Bandiana (Gaza Ridge Barracks)	• Built infrastructure such as workshops, warehouses, office buildings, gymnasium, hardstand areas including roads and vehicle access and training areas; • On-base personnel accommodation areas; • Bandiana Primary School; • Golf course; • The Bandiana Army Museum; • Former and current fire training areas; • Grassed and vegetated areas which are generally undeveloped and contain little to no infrastructure; and • Sheep grazing is permitted in the southwestern portion of the base along the base of Bears Hill.
North Bandiana (Gaza Ridge Barracks)	• Built infrastructure such as workshops, warehouses, office buildings, gymnasium, hardstand areas including roads and vehicle access and training areas; • On-base personnel accommodation areas; • Bandiana Neighbourhood House (child care centre); and • Grassed and vegetated areas which are generally undeveloped and contain little to no infrastructure.

Item	Details
East Bandiana (Wadsworth Barracks)	• Built infrastructure such as workshops, warehouses, office buildings, gymnasium, hardstand areas including roads and vehicle access and training areas; • Test track; and • Current fire station.

2.3 Surrounding Land Uses

The land uses surrounding the base has been summarised in **Table 2.3**.

Table 2.3: Surrounding Land Uses

Item	Details
North	Huon Hill Parklands is located directly north of North Bandiana, while residential developments are located directly north of East and South Bandiana. Commercial properties are also present along Anzac Parade located to the north of South Bandiana. Beyond the parklands is the Murray River and associated floodplain.
East	Residential developments are present east of both East and North Bandiana, while commercial properties and open farmland is east of South Bandiana. Beyond this is the Kiewa River and associated floodplain.
South	Bears Hill is used primarily for grazing and is located directly south of South Bandiana. Commercial properties, open farmland and minor rural residential development is present south of North and East Bandiana.
West	Wodonga townships is located directly west of the base and consists primarily of residential properties, with areas of commercial and/or industrial development.

2.4 General Site History

The full site history of the base has been detailed in the Detailed Site Investigation (DSI)[3] (Golder 2018). The following site history summary was provided in the DSI:

North, South and East Bandiana were acquired in 1942 as part of the war efforts during World War II, with an estimated 4,000 troops stationed there to operate the facility. At this time, the facility served as a tank armoured vehicle and equipment workshop as well as containing administration and warehouse facilities. Vehicle handling included receiving vehicles direct from manufacturers and holding them before issue within Australia or overseas (which continues today). Construction of storage depots and workshops commenced in 1942, with railway tracks from NSW and Victoria also established around this time. The BMA has remained in use as a storage and vehicle processing facility with the addition of Army logistics training.

The North Bandiana Historic Warehouse Precinct, developed during World War II between 1942 and 1945, is recognised as one of Australia's largest facilities for the storage and processing of technical and motor transport stores. Since the early 1960s many of the World War II buildings at the three facilities have been demolished to make way for new constructions such as training, administration and accommodation facilities. Furthermore, from approximately the mid-1990s, portions of the property have been progressively divested. These have included the portions of the land now occupied by the adjacent residential estates.

2.5 Topography

The base is part of a relatively low-lying river and creek floodplain located between two topographically significant features (Huon Hill to the north and Bears Hill to the south, as shown on **Figure 1**). There is a

[3] PFAS Detailed Site Investigation, Bandiana Military Area. Document Number 1777738-081-R-RevB. 14 September 2018 (Golder 2018).

topographic divide that runs across the base in a general north-south alignment. To the west of the divide, the area generally slopes to the northwest towards Jack in the Box Creek, while to the east of the divide, the area generally slopes to the east or northeast towards the Kiewa River. Elevation of the respective areas of the base are as follows:

- **South Bandiana**: this portion of the base generally slopes gently from the southern boundary, 240 m above sea level at its highest point, to the northern boundary, 175 m above sea level at its lowest point. South Bandiana is divided into two separate watersheds which slope to the northwest and northeast respectively;
- **North Bandiana**: Generally slopes gently from northwest, approximately 203 m above sea level at its highest point to the eastern boundary of the site, approximately 165 m; and
- **East Bandiana**: this portion of the base generally slopes gently from the western boundary, approximately 167 m above sea level at its highest point to the eastern boundary of the base, approximately 157 m above sea level. The eastern portion of East Bandiana (to the east of the test track) falls off into the Kiewa River floodplain.

2.6 Climate

Long-term climatic data collected from the closest Bureau of Meteorology (BoM) station located at Wodonga (2.7 km north west of base, station ID 082056), indicated the following between 1898 and 2018 for rainfall, and 1957 and 1968 for temperature:

- Annual rainfall is approximately 715.2 mm;
- Highest average monthly rainfall is approximately 80.1 mm, which occurs in July;
- Lowest average monthly rainfall is approximately 37.9 mm, which occurs in February;
- The highest average maximum daily temperature is 31.8 °C, which occurs in January; and
- The lowest average maximum daily temperature is 12.6 °C, which occurs in July.

2.7 Hydrology

As indicated previously, the base is divided into two catchments. West of the topographic divide flows to the northwest towards Jack in the Box Creek, while east of the divide flows into Middle Creek and an unnamed creek, both of which flow into the Kiewa River. Both the Jack in the Box Creek and Kiewa River catchments drain north into the Murray River catchment.

West of the divide comprises the western portion of South Bandiana, with the divide occurring approximately along Russell Road (internal road). Surface water is drained by a series of below ground stormwater infrastructure and above ground natural and man-made channels. Surface water flows in a north to northwest direction and exits the base via a surface channel which flows directly into Jack in the Box Creek. The on-base surface water channels are primarily ephemeral and only have flow during or immediately following rainfall. Jack in the Box Creek flows into Wodonga Creek, located approximately 3.5 km north of the base.

East of the divide comprises the balance of South Bandiana, along with North Bandiana and East Bandiana. The eastern most portion of South Bandiana drains eastward overland into Middle Creek which flows approximately 2.8 km east into Kiewa River. The balance of South Bandiana drains north into North Bandiana, with accumulated surface water flowing northeast across this portion of the base before exiting the eastern boundary adjacent Whytes Road and flowing down an unnamed creek before discharging into the Kiewa River approximately 1.4 km northeast of the base. East Bandiana stormwater flows to the northeast and is discharged into off-base oxbow lakes on the Kiewa River floodplain immediately east of the base. Surface water infrastructure on the balance of the base also comprises of a series of below ground stormwater

infrastructure and surface drainage channels. The Kiewa River is a meandering watercourse and discharges into the Murray River approximately 3.0 km north of the base.

The stormwater divide and general surface water flow directions have been provided in **Figure 3**.

2.8 Geology and Hydrogeology

Details of the regional and local geological/hydrogeological setting are provided in previous investigation reports such as the DSI (Golder 2018) and DSI Addendum (JBS&G 2024a). There are three main geological units which are present at the base. From deepest to shallowest these are as follows:

- **Omeo-Metamorphic Complex**: Ordovician aged schist with intrusions of granite and gneiss. This material forms the bedrock of the area, with both Bears Hill and Huon Hill consisting of this unit;
- **Shepparton Formation**: Tertiary aged deposits of sand, silt and clay. Erosion and accumulation of sediments from the local hill are defined as the Shepparton Colluvium and can be found through the centre of the base. Deposition of alluvial sediments also occurred during this period and are termed the Shepparton Fluvium and are primarily found in the northwest and southwest of the base; and
- **Coonambidgal Formation**: Quaternary aged deposits of sand, silt and clay. More recent hill erosion is defined as the Coonambidgal Colluvium and can be found around the foot of Bears Hill and Huon Hill. Deposition around current waterways, including the Murray River, Kiewa River, Wodonga Creek and Middle Creek, is the Coonambidgal Fluvium.

While groundwater is present within the bedrock, the primary aquifers of concern with respect to PFAS are those present in the unconsolidated Shepparton and Coonambidgal Formations and in particular the colluvium at North and South Bandiana and fluvium at East Bandiana. These are discussed below for each portion of the base:

- **South Bandiana**: the sub surface at South Bandiana generally consists of unconsolidated hill-wash deposits (colluvium) (sands, silts, clays and gravels) from the Quaternary (Coonambidgal) and Tertiary (Shepparton) period. Based on base observations, the material consists primarily of fine-grained sediments (clays and silts) with some interbedded sands and gravels. These unconsolidated formations have been encountered to depths of approximately 32 to 36 metres below ground level (mbgl) depending on position on-base. Across the flatter northern portion of South Bandiana, the depth to groundwater in ranges between 10 to 15 mbgl, although this increases up to approximately 40 mbgl in the sloped southern portion (depending on seasonality and weather conditions);
- **North Bandiana**: observations from the northern and western portions of North Bandiana are considered representative of the Shepparton Colluvium, while the south portion is more consistent with the Shepparton Fluvium (alluvial sediments). In the north and west of North Bandiana, groundwater depth is up to 14.7 mbgl, while to the south east it is between 1.8 to 3.8 mbgl; and
- **East Bandiana**: observations from East Bandiana identified various layers of clays, silt and sand across the base consistent with a depositional environment (Shepparton/Coonambidgal Fluvium). Due to the presence of PFAS at the base boundary this area has been subject to significant investigation works. The depositional processes that occurred in this area of the base have resulted in a distribution of permeable sediments that is highly variable. The shallow portion (<10 mbgl) of the aquifer includes variably distributed (and generally discontinuous) sands and clays and has standing water levels ranging between approximately 6.6 and 8.2 m below top of case (mBTOC). A more continuous sandy layer is present between 10.0 and 15.0 mbgl and has a standing water level range between approximately 6.6 and 8.1 mBTOC. The sandy layer has an estimated hydraulic conductivity of approximately 10-20 m/day. Beneath the sandy layer, clay is present to the depth of completed investigations.

Groundwater flow directions are consistent with topography and surface water drainage. In South Bandiana, groundwater flow is primarily to the northwest towards Jack in the Box Creek, while in North and East Bandiana it is primarily to the east towards Kiewa River.

The Kiewa River, associated oxbows, Wodonga Creek and possibly the northern portion of Jack in the Box Creek are likely gaining streams (i.e. surface water bodies which receive groundwater discharge). Middle Creek and the unnamed creek are considered losing streams (surface water discharges into groundwater).

In addition to the above, it has been identified that a deeper sandy portion of the aquifer (i.e. between 10.0-15.0 mbgl) on East Bandiana intercepts one or more off-base oxbow lakes in the Kiewa River Floodplain to the northeast of the base.

3. Conceptual Site Model Summary

Significant environmental investigation have been completed across the base and the Management Area which has developed the current Conceptual Site Model (CSM). The following key investigations and reports have assisted in developing the CSM, and which are relied upon for this OMP SAQP:

- DSI (Golder 2018);
- Human Health and Ecological Risk Assessment (HHERA)[4] (Golder 2020);
- PMAP[5] (Defence 2020);
- Revised OMP (Defence 2025);
- DSI Addendum[6] (JBS&G 2024a);
- PFAS Mass Flux Study[7] (JBS&G 2024b);
- Source Areas 1 and 7 Further Investigation[8] (JBS&G 2025);
- Previous OMP event results between November 2021 and May 2025.

Based on the information provided in these documents, a summary of the current CSM for the base and Management Area has been summarised in the sections below.

3.1 Sources

Investigations completed to date have identified that there are various sources of PFAS across the base which relate to use or storage of AFFF products. Source Areas 1 through 15 (see **Figure 2** for locations) are considered the primary sources of PFAS, although varying concentrations of PFAS have been reported for affected media. The Source Areas also relate to different surface water catchments, flowing into Jack in the Box Creek or Kiewa River – further discussed in **Section 3.2** below. Current investigation results divide the identified PFAS Source Areas into the following categories:

- PFAS concentrations above relevant health-based criteria: Source Areas 1, 2, 5, 6, 7, 9, 11, 12, 13, 14 and 15;
- PFAS concentrations above laboratory standard limits of reporting, but below health-based criteria: Source Area 10; and
- Not considered a source: Source Areas 3, 4 and 8.

Description of the Source Areas, and their respective Contaminated Site Record (CSR) ID, with PFAS concentrations above laboratory standard limits of reporting are as follows:

- Source Area 1 (CSR_VIC_000353) – Petroleum Platoon – Former Fire Training Ground (South Bandiana);

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[4] Human Health and Ecological Risk Assessment, Bandiana Military Area. Document Number 1777738-150-R-RevB. November 2020 (Golder 2020).

[5] Bandiana Military Area, PFAS Management Area Plan. Document Number 1777738-153-R-RevA. November 2020. (Defence 2020).

[6] PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area, Detailed Site Investigation (DSI) Addendum. Document Number 61395/ 146,407 Rev 1. JBS&G Australia Pty Ltd. 14 June 2024 (JBS&G 2024a).

[7] PFAS Mass Flux Study – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/ 153,765 – Rev 0. JBS&G Australia Pty Ltd. 1 November 2024 (JBS&G 2024b).

[8] Source Areas 1 and 7 Further Investigation – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/162,538 Rev C. JBS&G Australia Ltd Pty. 20 March 2025 (JBS&G 2025).

- Source Area 2 (CSR_VIC_000478) – Base Fire Services (BFS) – Former Fire Training Ground (South Bandiana);
- Source Area 5 (CSR_VIC_000365) – Petroleum Platoon – Fuel Handling Facility (South Bandiana);
- Source Area 6 (CSR_VIC_000350) – Fire Training Area, Building 600 (South Bandiana) [9];
- Source Area 7 (CSR_VIC_000357) – Old Fire Station, Building 421 (South Bandiana);
- Source Area 9 (CSR_VIC_000374) – Petroleum, Oils and Lubricants (POL), Building 490 (South Bandiana);
- Source Area 10 (CSR_VIC_000479) – Former Unit Training Area, between Warehouse 1 and 2 (North Bandiana);
- Source Area 11 (CSR_VIC_000480) – Fire Extinguisher Disposal – Warehouse 13 (North Bandiana);
- Source Area 12 (CSR_VIC_000483) – Armoured Vehicle Maintenance Training, Building 100 (North Bandiana);
- Source Area 13 (CSR_VIC_000383) – Fire Station – Current (East Bandiana);
- Source Area 14 (CSR_VIC_000481) – Former Unit Training, Building 592 (East Bandiana); and
- Source Area 15 (CSR_VIC_000482) – Former Unit Training, Football Field (East Bandiana).

It should be noted that Defence have completed significant investigation work subsequent to the DSI (Golder 2018) which have provided further data on Source Areas and their contribution of PFAS mass to the migration pathways. This additional work has identified a PFAS plume in multiple aquifers originating from Source Area 13 that is migrating northeast across East Bandiana and into off-base areas. Furthermore, several Source Areas, including Source Area 1, 6 and 7 on South Bandiana (further discussed in this report), identified concentrations of PFAS in soil which are considered to contribute to PFAS concentrations in surface water. Based on this, these four Source Areas and pathways are the primary focus of Defence and are planned to have remediation work carried out during 2025 to reduce PFAS migration levels. All other Source Areas across the base continue to be monitored as part of the OMP program to ensure PFAS concentrations continue to present a low risk to on- and off-base users and the environment, however, are not to be considered for remediation at this stage.

3.2 Pathways

3.2.1 Surface Water

Surface water drains into and across the base in a network of above ground drainage channels, swales and shallow below ground pipes. Surface water has been identified as a pathway for migration of PFAS from identified PFAS Source Areas on North, South and East Bandiana towards both Jack in the Box Creek and Kiewa River catchments. PFAS will continue to migrate through this pathway in the absence of management controls. Broadly the surface water catchment for the base runs north to south, with a divide through South Bandiana in the approximate location of Russell Road. Based on this, surface water drainage from the following Source Areas flow into each of the two respective catchments shown in **Figure 3**:

- Jack In the Box Creek (flow direction to the west/northwest) receives surface water from South Bandiana that includes Source Areas 1, 2, 3, 4, 5 (partial), 6 and 7;

[9] Source Area 6 in previous documentation, including the PMAP (Defence 2020), has been identified as the Current Fire Training Area, Building 600. A new Fire Training Area however has since been constructed and commissioned and the facility located at Source Area 6 retired from active service. This Source Area will therefore just be referred to as the Fire Training Area, Building 600 for the balance of this document.

- Kiewa River (flow direction to the east):
    - South Bandiana – Source Areas 5 (partial), 8 and 9;
    - North Bandiana – Source Areas 10, 11 and 12; and
    - East Bandiana – Source Areas 13, 14 and 15.

Based on investigations completed to date, the primary PFAS transport pathway for both South and North Bandiana has been shown to be through surface water, primarily owing to PFAS leaching from soils and infrastructure in the key Source Areas identified above. Surface water is a secondary PFAS transport pathway for East Bandiana. Site history (Golder 2018) has shown that previous base re-development has either capped or removed a large portion of potentially PFAS affected soils, removing this as a potential source for surface water.

3.2.2 Groundwater

In the Management Area, and particularly on the base itself, groundwater has been identified as a primary pathway for the migration of PFAS from Source Areas in East Bandiana and as a secondary pathway for those in South and North Bandiana. Groundwater is likely discharging to the lower portion of Jack in the Box Creek (from a portion of South Bandiana) and to the oxbows in the Kiewa River floodplain or the Kiewa River itself for the balance of the base.

Groundwater contours within the Management Area, consistently show that a groundwater divide is present through the centre of the Area – on-base through North Bandiana itself. Based on this, groundwater flow from the following Source Areas can be attributed to each of the two catchments:

- Jack in the Box Creek (flow direction to the west/northwest):
    - South Bandiana – Source Areas 1, 2, 3, 4, 5, 6, 7, 8 and 9; and
    - North Bandiana – Source Areas 10 (partial) and 12 (partial).
- Kiewa River (flow direction to the east):
    - North Bandiana – Source Areas 10 (partial), 11 and 12 (partial); and
    - East Bandiana – Source Areas 13, 14 and 15.

Due to a combination of the depth to groundwater, the clayey nature of the geology below the Jack in the Box Creek catchment portion of the base in North and South Bandiana and the distance to the discharge point, PFAS from Source Areas migrates slowly from soil into groundwater and there is limited lateral migration in groundwater. Therefore, groundwater is not considered a significant pathway for PFAS discharge off-base to this catchment, although significant (>100 ug/L of sum PFAS) PFAS concentrations have been identified in several Source Areas within these portions of the base, including Source Area 1 and 7. In these instances, the concentrations of PFAS in groundwater are due to historic excavation/use of a fire training bund and installation of infrastructure, respectively. These areas will be the subject of remedial action.

In the eastern portion of the Management Area, the geology and hydrogeology differ to North and South Bandiana, with the Shepparton Fluvium on this part of the base and off-base to the east in the Kiewa River catchment comprising variable deposits of sands, clays and silts. Previous investigations have identified a relatively continuous sand layer, semi-confined and interconnected with shallower and deeper portions of the aquifer, below East Bandiana between a depth of approximately 10.0-15.0 mbgl. The depth of this layer correlates with the off-base springs, oxbow lakes and the Kiewa River situated beyond the northeastern boundary of the base. Groundwater flow in this layer is therefore considered a pathway for PFAS migration from East Bandiana.

3.2.3 Sewerage System

A sewerage network has been constructed below ground across North, South and East Bandiana and services the base buildings. The sewerage network runs within or adjacent to multiple Source Areas before discharging off-base to the North East Water municipal waste treatment facility. It is understood that sewage runs to the Baranduda Wastewater Treatment Plant, with wastewater then being pumped to the West Wodonga Wastewater Treatment Plant.

Previous investigation work included PFAS analysis from the sewer. It was identified that minor PFAS concentrations infiltrate into sewerage infrastructure during rain events from Source Areas, while PFAS is also likely present within the concrete infrastructure of the system itself, which diffuses back into sewage which flows occur. Overall, the sewerage network is considered a secondary pathway for PFAS migration for the base, compared to groundwater and surface water pathways.

3.3 Receptors and Receptor Linkages

The receptors and associated potential receptor linkages for PFAS, can be summarised in **Table 3.1**.

Table 3.1: Receptors and Associated Potential Receptor Linkages

Exposure Group	Potential Exposure Via
On-base residents who live on the base	• Incidental ingestion of soil and/or water on the base and eating potentially impacted biota grown or caught on the base; • Inhalation of dust; or • Eating potentially affected biota grown within the catchment area, including home grown foods, such as fruit and vegetables and livestock.
On-base workers, army personnel and visitors who work or visit the base	• Incidental ingestion of soil and/or water on the base; or • Inhalation of dust.
On-base terrestrial or aquatic ecosystems including flora and/or fauna	• Direct contact with and/or uptake of contaminants from soil, sediment or surface water; • Ingestion by fauna including eating affected biota (including incidental ingestion of soil/sediment adhering to plants/grass) and drinking impacted surface water; or • Ingestion by fauna of greater PFAS concentrations by higher trophic level predatory species due to the tendency for PFAS compounds to bioaccumulate and biomagnify within ecosystems.
Off-base sensitive receptors including people who either live, or attend schools or childcare facilities within the portions of the Jack in the Box Creek or Kiewa River catchments downstream of the base	• Drinking potentially affected water; • Incidental ingestion of potentially affected soil, sediment, surface water or groundwater; • Inhalation of potentially affected dust; or • Eating potentially affected biota grown, caught or reared within the catchment area, including home grown or agriculturally produce.
Recreational users including people using public open recreational spaces within the portions of the Jack in the Box Creek or Kiewa River catchments downstream of the base	• Incidental ingestion of potentially affected soil, sediment, surface water or groundwater; • Inhalation of potentially affected dust; or • Eating potentially affected biota caught within the catchment area, including recreationally caught fish and yabbies.

Exposure Group	Potential Exposure Via
Commercial/industrial workers including general commercial/industrial workers, sewage treatment plant workers and maintenance/trench workers operating within the portion of the Jack in the Box Creek or Kiewa River catchments downstream of the base	• Incidental ingestion of potentially affected soil, sediment, surface water, sewage or groundwater; or • Inhalation of potentially affected dust.
Off-base terrestrial or aquatic ecosystems including flora and/or fauna	• Incidental ingestion of potentially affected soil, sediment, surface water or groundwater; or • Inhalation of potentially affected dust.
Off-base terrestrial or aquatic ecosystems including flora and/or fauna	• Direct contact with and/or uptake of contaminants from soil, sediment or surface water; • Ingestion including eating impacted biota (including incidental ingestion of soil/sediment adhering to plants/grass) and drinking affected surface water; or • Ingestion of greater PFAS concentrations by higher trophic level predatory species due to the tendency for PFAS compounds to bioaccumulate and biomagnify within ecosystems.

3.4 Exposure and Risk

The work undertaken to inform the DSI (Golder 2018), HHERA (Golder 2020) and DSI Addendum (JBS&G 2024a) has confirmed that for each of the key exposure scenarios identified as currently being realised (of which there are six, refer to HHERA for further information), the potential exposure to PFAS was assessed to present a low and acceptable risk to human health. This related to both on-base and off-base areas.

The only potentially unacceptable human health risks were associated with unrealised scenarios relating to East Bandiana and the off-base land to the east which were assessed to inform stakeholders of potential future risks. There were eight risks identified in total which have been summarised in the following points:

- Use of groundwater as drinking water or stock watering;
- Home consumption of cattle (meat and offal) raised within the southern pastoral area;
- Consumption of recreationally caught carp from the main Kiewa River channel, oxbow lakes of the Kiewa River floodplain and Unnamed Creek;
- Consumption of recreationally caught fin fish and yabbies from oxbow lakes in the floodplain of the Kiewa River, adjacent to East Bandiana;
- Consumption of eggs from home raised poultry watered with extracted groundwater – boundary of East Bandiana and Jack in the Box Creek catchment;
- Consumption of home grown produce (vegetables and eggs) irrigated with extracted surface water – floodplain of the Kiewa River adjacent to East Bandiana and Jack in the Box Creek;
- Consumption of home grown produce (vegetables) irrigated with extracted groundwater – floodplain of the Kiewa River adjacent to the southern portion of East Bandiana; and
- Incidental ingestion of surface water during recreational activities – floodplain of the Kiewa River adjacent to East Bandiana.

4. Data Quality Objectives

The Data Quality Objectives (DQO) process outlined in the ASC NEPM (NEPC 2013) has been adopted to establish the purpose of the OMP monitoring. Schedule B2 of the ASC NEPM outlines the seven step DQO process developed by the USEPA as one example of a suitable systematic planning approach for site investigations. The seven step DQO process is as follows:

- Step 1 – State the problem;
- Step 2 – Identify the decision or goal of the investigation;
- Step 3 – Identify the information inputs;
- Step 4 – Define the investigation boundaries;
- Step 5 – Develop the analytical approach or decision rule;
- Step 6 – Specify the performance or acceptance criteria; and
- Step 7 – Optimise the design for obtaining the data.

4.1 Step 1 – State the Problem

Previous investigations have identified that PFAS associated with the use, storage and disposal of AFFF at Bandiana Military Area have impacted soil, surface water, groundwater, sewage, sediment, pore water and biota within the PFAS Management Area.

Based on the HHERA (Golder 2020) the concentrations in the various media represent a low and acceptable risk to on-base and off-base receptors for all realised scenarios. The only potentially unacceptable human health risks were associated with unrealised scenarios.

Ongoing monitoring is required to be undertaken as part of the Bandiana Military Area PMAP (Defence 2020) to assess potential changes in receptor exposure conditions, specifically those that relate to surface water and groundwater. These include the assessment of changes related to relevant environmental values.

4.2 Step 2 – Identification of the Decision or Goal of the Investigation

The goal of the OMP is to monitor the nature and extent of PFAS impacts, and to identify trends and changes to PFAS impacts in the PFAS Management Area. This will allow decisions to be made regarding the assessment of risks to human and ecological receptors into the future (i.e., updating the CSM), and whether the OMP needs to be amended (e.g., increasing concentrations may require increased monitoring locations and/or frequencies or decreasing concentrations may warrant a decrease in the frequency or number of locations).

The primary decision statement outlined in the OMP document that needs to be answered by the OMP program is:

- Do the analytical results and field observations allow for the interpretation of the spatial and temporal variation in PFAS concentrations in the Management Area and do these trends warrant a re-evaluation of the CSM or management options in the PMAP (Defence 2020)?

The alternative actions of the principal study question are:

- The analytical results and field observations allow for interpretation of the spatial and temporal variation in PFAS concentrations and warrant a re-evaluation of the CSM and PFAS management options; and
- The analytical results and field observations allow for interpretation of the spatial and temporal variation in PFAS concentrations, and do not warrant a re-evaluation of the CSM and PFAS management options.

4.3 Step 3 – Identify the Information Inputs

The primary information inputs for the work are outlined in the following table.

Table 4.1: Information Inputs

Aspect	Description
Site Conditions	• Historical information, site observations, and data collected during previous investigations; • Historic data collected as part of the OMP and Mass Flux Study (JBS&G 2024b); • Field observations such as water quality parameters (pH, dissolved oxygen etc.) and visual/olfactory observations; and • Collection of surface water and groundwater samples and analysis for PFAS to achieve a sufficient distribution of data to characterise the distribution of contamination across the Management Area.
Analytical Data	• PFAS concentrations in representative samples in surface water and groundwater; and • Assessment of the suitability of the data through application of Data Quality Indicators (DQIs).
Geological and Hydrogeological Data	• Measuring water depth in groundwater monitoring wells; • Calculated aquifer flow direction based on field measurements; and • Rainfall data.

4.4 Step 4 – Define the Investigation Boundaries

The OMP comprises sampling locations at Bandiana Military Area and surrounds to assess variation in PFAS concentrations over time and provide supporting data for assessment of potential management actions. The sampling will include surface water and groundwater, including locations both on and off-Base, up/down-hydraulic gradient and up and down-stream. The base and Management Area boundaries have been provided in **Figure 1**.

The vertical extent of the investigation will be shallow surface water and the depth of groundwater across the Management Area (deepest groundwater well is 41.0 mbgl at MW328).

The temporal boundaries for the works detailed in this SAQP comprise a period of 2 months (i.e. the period to complete the OMP sampling and reporting).

Constraints on the previously identified investigation boundaries may be influenced by:

- Activities on-base, including operational or base access restrictions, or upgrade or redevelopment works;
- Off-base access restrictions;
- Access restrictions associated with sampling equipment; and
- Dry weather during proposed surface water sampling events resulting in features which cannot be sampled. Consideration will be made for reasonable rain events when planning surface water events.

4.5 Step 5 – Develop the Decision Rule and Analytical Approach

The purpose of this step is to define the parameters of interest, specify action levels and combine the outputs of the previous DQO steps to develop a series of options if certain trigger events occur. Key decision rules for the investigation will be:

- Has the analytical data collected as part of the investigation met the DQIs (see below)? If yes, then the data can be used to answer the decision rule below and the decision statement developed in Step 2. If no, then an assessment of the need to collect additional data will be required; and
- Does the analytical data collected meet the requirements to determine the nature and extent of PFAS within the identified source areas, and address the decision points for the investigation? If yes, then the data can be used to assess the potential for re-evaluation of management options outlined in the PMAP (Defence 2020). If no, then an assessment of an alternative approach to collect this data will be required.

In order to assess the useability of the data for making decisions, the data will be assessed against a set of DQI, developed based on the parameters provided in **Section 4.7.2**.

The measurements employed along with the acceptance criteria has also been presented in **Section 4.7.2**.

4.6 Step 6 – Specify Performance or Acceptance Criteria

This step involves specifying acceptable limits on decision errors. Decision errors are incorrect decisions caused by using data that are not representative of site conditions due to sampling or analytical error.

Specific decision rules as a statistical hypothesis test relevant to this investigation are summarised as follows:

- **Null hypothesis**: contaminated site media present at the base or Management Area is identified as an unacceptable risk to current or future users.
- **Alternative hypothesis**: no contaminated media is present at the base or Management Area which is identified as an unacceptable risk to current or future users.

This may result in decision errors that can occur for the investigation including:

a) **Type II Error**: Collection of samples which overestimate real PFAS concentrations or contribution to risk, resulting in implementation of management actions, or remediation areas being defined, which are too stringent. The consequence of this error would be corrective actions being undertaken to a degree which is more than necessary; and

b) **Type I Error**: Collection of samples which underestimate real PFAS concentration, resulting in implementation of management actions, or remediation areas being defined, which are not stringent enough to sufficiently reduce off-base migration of PFAS. The consequence of this error may be unacceptable impacts to human health and the environment.

The more severe consequences are with decision error b) since the risk of jeopardising human health and/or the environment out weights the consequences of undertaking management actions that are not necessary.

Acceptance limits on field and laboratory data collected for this investigation have been identified with reference to the NEPM and the PFAS NEMP. In this case acceptable limits on the likelihood of making decision errors, an alpha risk (Type I error) of $\alpha = 0.05$, and a beta risk (Type II error) of $\beta = 0.2$ will be applied.

The potential for significant decision errors will be minimised by completing a QA/QC program, including adoption of appropriate DQIs used to assess QA/QC performance, and implementing JBS&G procedures for field sampling and handling designed specifically for PFAS investigations (refer to **Section 7**).

The pre-determined DQIs established for precision, accuracy, representativeness, comparability, completeness and sensitivity, and are shown in **Section 4.7.2**. The DQIs are based on the ASC NEPM and the requirements of the National Association of Testing Authorities (NATA) accreditation for the nominated laboratories.

If any of the DQIs are not met, further assessment will be necessary to determine whether the non-conformance will significantly affect the usefulness of the data. Corrective actions may include requesting

further information from samplers and/or analytical laboratories, downgrading of the quality of the data or alternatively, re-collection of the data.

4.7 Step 7 - Plan for Obtaining Data

The SAQP is developed in accordance with the Revised OMP (Defence 2025) and the relevant guidelines through a targeted approach to produce a resource-effective design that targets known and potential sources, pathways and receptors within the Management Area.

4.7.1 Ongoing Monitoring Sampling Overview

The sampling requirements for the OMP have been documented within the Revised OMP (Defence 2025). **Table 4.3** provides a list of groundwater and surface water sampling locations which are to be completed during each sampling event, along with the reasoning for the position of each sample location in the context of the overall program and the base.

In total, 55 groundwater wells and 53 surface water locations are sampled as part of the OMP, although the number of locations sampled depends on season, which has been detailed in **Table 4.2**.

Table 4.2: Sampling Frequencies

Sampling Period	Sampling Required
Autumn (May)	Bi-Annual Surface Water sampling and Bi-annual Groundwater sampling columns apply from **Table 4.3**
Spring (October)	Bi-Annual Surface Water sampling and the Annual and Bi-annual Groundwater sampling columns apply from **Table 4.3**

Groundwater sample locations are provided in **Figure 4A** and **4B**, while surface water locations are provided in **Figure 5A** and **5B**.

Table 4.3: OMP Sampling Locations as per Revised OMP (Defence 2025)

Catchment	Surface Water (Bi-Annual)	Groundwater		Target Area	Justification
		Annual	Bi-annual		
Jack in the Box Creek	SW302, SW307, SW310	MW315, MW317 MW318	-	South Bandiana, on-base, Source Area 2	Locations target surface water and groundwater within and down-gradient of the Source Area. Also important sample locations to establish sub-catchment concentrations up-gradient of Source Area 1, which is known to significantly contribute to surface water PFAS concentrations.
	SW311, SW313, SW316, SW321	MW304, MW305, MW307, MW311	-	South Bandiana, on-base, Source Area 1	Locations target surface water and groundwater within and down-gradient of the Source Area. SW311 and MW304 are particularly important as they generally represent the off-base discharge into Jack in the Box Creek. MW305 has been included to better define and potentially delineate known groundwater impacts associated with Source Area 1.
	SW322	MW312	-	South Bandiana, on-base	SW322 and MW312 are located where surface water and groundwater discharges off-base into Jack in the Box Creek. SW322 is also at the confluence of surface water drainage from Source Area 1 and 2 and Source Area 5, 6 and 7.
	SW323	-	-	South Bandiana, on-base	This point represents the confluence of drainage from Source Area 5, 6 and 7 prior to discharging off-base.
	SW324, SW326, SW332, SW336	MW051, MW416, MW323	-	South Bandiana, on-base, Source Area 6	Locations target surface water and groundwater discharge from Source Area 6. SW336 is located within the Fire Training Area settling pond, SW324 and SW332 target two different flow paths from the Source Area.
	SW333, SW338	MW329	-	South Bandiana, on-base, Source Area 5	Locations target surface water and groundwater discharge from Source Area 5. SW333 targets discharge to the Jack in the Box Creek catchment, SW338 is the large pond within the Source Area. SW340 targets discharge to the Kiewa River catchment.
Kiewa River	SW340	-	-		
Jack in the Box Creek	SW448	MW319, MW321	-	South Bandiana, on-base, Source Area 7	Locations target surface water and groundwater discharges from Source Area 7.
Kiewa River	SW346, SW349, SW355	MW056	-	South Bandiana, on-base, Source Area 9 and Stormwater Ponds (wetlands)	MW056 targets a perched groundwater layer identified within Source Area 9. Surface water locations are targeting discharge into, within and from the South Bandiana Stormwater Ponds.
	SW370, SW374, SW375	MW342, MW343, MW344, MW345, MW346	-	North Bandiana, on-base, Source Areas 10, 11 and 12	SW370 is within the unnamed creek, targeting contributions from Source Area 10, 11 and 12. MW342 targets Source Area 12. MW345 is within the shallow Shepparton and Coonambidgal Fluvium aquifer where potential groundwater/surface water interactions maybe occurring. SW375 and MW346 is the point of discharge from the base. MW343 and MW344 are installed within the shallow Shepparton Colluvium aquifer and shallow Shepparton and Coonambidgal Fluvium aquifer respectively, down-gradient of Source Area 10 and 11. These wells have been included to assist in calculation of groundwater flow in North Bandiana, and to better define the extent of the PFAS plume from Source Area 12.
	SW379, SW380	MW009, MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW042, MW043, MW046_I, MW046_D, MW052, MW350_S, MW350_D, MW352, MW353, MW354, MW403, MW404	-	East Bandiana, on-base, Source Area 13, 14 and 15	Locations are targeting surface water discharge from Source Area 13. The groundwater locations are targeting the East Bandiana groundwater plume within the shallow, intermediate and deeper Shepparton and Coonambidgal Fluvium horizons of the aquifers, which is emanating from Source Area 13 and discharging off-base across the eastern base boundary.
	SW382, SW387, SW388	MW351	-	East-Bandiana, on-base	Locations are targeting surface water discharge points from East Bandiana into the Kiewa River, and Kiewa River floodplain. MW351 targets the down-gradient boundary adjacent to the residential properties.
Jack in the Box Creek	SW424, SW463	MW302, MW303, MW313	-	Upper Jack in the Box Creek	Locations are targeting publicly accessibly open space land use areas where yabby trapping occurs. The maximum concentrations within Jack in the Box Creek were reported at these locations. MW302 and MW303 have been included to better define and potentially delineate known groundwater impacts associated with Source Area 1. Groundwater monitoring locations MW303 and MW313 are directly adjacent to residential developments, with concentrations assisting in identifying potential human health exposure to adjacent receptors.
	SW427	-	MW360	Lower Jack in the Box Creek	SW427 is located where the creek passes near sensitive land use areas (i.e., a childcare centre) where sensitive receptors such as children could be exposed. MW360 is located within the shallow Shepparton Colluvium aquifer where elevated concentrations and where potential groundwater/surface water interactions maybe occurring.

Catchment	Surface Water (Bi-Annual)	Groundwater		Target Area	Justification
		Annual	Bi-annual		
	SW430	-	MW361		MW361 is located within the shallow Shepparton Colluvium aquifer where elevated concentrations have been reported. SW430 is in proximity to groundwater well MW361 to allow assessment of groundwater/surface water interactions.
	SW431	-	-		SW431 is located where flood diversion structures are located, and if the equipment is used, may result in the release of water from Jack in the Box Creek into Wodonga Creek upgradient of the North East Water abstraction point.
	SW432	-	-		SW432 is located down-gradient of several off-base sources identified during investigations.
	SW434	-	-	Jack in the Box and Wodonga Creek confluence	SW434 is located at the confluence of Jack in the Box Creek and Wodonga Creek and represents the most down-stream point of monitoring within the PFAS Management Area within the Jack in the Box Creek catchment.
Kiewa River	SW409	-	MW447	Unnamed creek	SW409 is located where the creek passes near sensitive land use areas (i.e., Henrika Kuljurgies Reserve and surrounding Killara residential properties) where sensitive receptors such as residents may be present. MW447 has been included to investigate the potential migration of PFAS impacted groundwater into off-base areas.
	SW403, SW405, SW412, SW462	-	MW357	Unnamed creek and Kiewa River oxbows	Locations SW403 and SW405 are ox-bow lakes within the Central Pastoral Area, and SW412 and SW462 are where the creek passes through the Northern and Central Pastoral Areas. The HHERA (Golder 2020) identified potential unacceptable human health risks associated with the consumption of carp from within the unnamed creek. SW462 and MW357 are at the point where the unnamed creek discharges into the Kiewa River.
	SW395, SW396, SW397, SW400, SW401, SW470, SW471, SW487	-	OTH019, MW411, MW412, MW413, MW414, MW415	Kiewa River oxbows	Surface water locations are ox-bow lakes located on the Kiewa River floodplain within the Southern Pastoral Area. SW487 is targeting seepage water, where groundwater seeps were identified on the terrace separating the upper and lower Kiewa River floodplain. MW356 targets groundwater/surface water interactions with the Kiewa River. OTH019 is a point of use sample, where bore water is used for irrigation of home grown produce and drinking water for chickens. MW411 through MW415 have been included to monitor the known PFAS groundwater plume to the northeast of East Bandiana.
	SW390	-	-	Kiewa River – main channel	SW390 is the Kiewa River background location and represents conditions upstream of the Baranduda Water Treatment Plant and Middle Creek.
	SW393	-	-	Middle Creek	SW393 is located within Middle Creek and represents potential contributions from the Middle Creek catchment. The HHERA (Golder 2020) identified potential unacceptable human health risk associated with the consumption of carp from within the Middle Creek.
	SW398, SW404	-	MW356	Kiewa River – main channel	Locations are located within the Kiewa River main channel and represent conditions down-gradient of the on-base discharges, and where recreational activities commonly occur within the river. MW356 targets the groundwater/surface water interactions with the Kiewa River.
	SW416	-	-		SW416 is located within the main Kiewa River channel at the point of confluence with the unnamed creek. It is also located where recreational activities commonly occur within the river and represents the most down-stream point of monitoring within the PFAS Management Area within the Kiewa River catchment.

4.7.2 Groundwater Sample Location

As detailed previously in **Section 4.7.1**, a total of 55 groundwater monitoring wells are sampled across the base and the Management Area as part of the OMP. As discussed in **Section 2**, multiple geological units are present across the base. In general groundwater wells within the Jack in the Box Creek catchment, on the western side of the base, are within the Shepparton Colluvium, while wells within the Kiewa River catchment, on the eastern side of the base, are within the Shepparton Fluvium and Coonambidgal Fluvium.

Table 4.4 below divides the OMP wells into their respective aquifers.

It is noted that OTH019 is groundwater sampled from a private bore off-base. The well however is not accessed during OMP sampling events (rather a tap is sampled from extracted groundwater which is understood to be held in an above ground storage tank) and the construction details of the well are unknown. As such, this sample location has not been assigned an aquifer.

Table 4.4: OMP Sampled Wells vs. Aquifers

Geological Unit	Aquifer Interval	Aquifer Depth (mbgl)	OMP Wells
Shepparton Colluvium	Shallow 'S'	Variable, based on position on-base. Identified between approximately 5.0 and 42 mbgl	MW051, MW302, MW303, MW304, MW305, MW307, MW311, MW312, MW313, MW315, MW317, MW318, MW319, MW321, MW323. MW325, MW326, MW328, MW329, MW342, MW343, MW360, MW361, MW416
Shepparton Fluvium and Coonambidgal Fluvium	Shallow 'S'	5.0-10.0	MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW043, MW052, MW344, MW345, MW346, MW350_S, MW351, MW352, MW353, MW354, MW356, MW357, MW403, MW404, MW411, MW412, MW413, MW414, MW415, MW447
	Intermediate 'I'	10.0-15.0	MW009, MW042, MW046_I
	Deep 'D'	>15.0	MW046_D, MW350_D
Perched Water	-	Approximately 3.0	MW056

4.7.3 Groundwater Sampling Methodology

Groundwater wells have historically been sampled as part of the OMP program via HydraSleeve™, with wells which have a short water column (i.e. <1.0 m) sampled via bailer.

As part of this SAQP, JBS&G have reviewed the groundwater sampling approach to understand if the methods are suitable and whether they will provide the most representative data for the OMP and the expected Base conditions. As part of this assessment, JBS&G have reviewed relevant well details which has been summarised in the table provided in **Appendix C**. Based on the review completed, this OMP sampling round will follow the existing groundwater sampling methodology based on the following justification:

- The HydraSleeve™ sampling method is endorsed by the Groundwater Sampling Guidelines (EPA 2022), with the only limitation identified being the limited sample volume removed, which can be countered by providing larger HydraSleeves™ at necessary locations (i.e. those where QA/QC samples are collected);
- The Groundwater Sampling Guideline (EPA 2022) recommends that sampling with a bailer should only be completed when other sampling method are not available. Owing to expected short water columns, see dot points below, is it considered unlikely that other sampling methods would be practical for several wells within the Management Area;
- For the sake of consistency during the sampling event, it is the preference to only adopt two sampling methods (i.e. a primary method and a backup method), rather than introducing low flow as a third

sampling option. It is acknowledged that low flow sampling is a more preferred method to bailer. However, it is unlikely that low flow can be practically implemented in a number of wells due to the short water columns;

- Maintaining the existing groundwater sampling methodology will enable direct comparison of results between current and historic sampling rounds;
- The majority of monitoring wells across the OMP network have sufficient water column (i.e. >1.0 m) to enable sampling via HydraSleeve™;
- The wells which do not have sufficient water column for HydraSleeve™ sampling (i.e. <1.0 m), generally have very minimal water columns (i.e. <0.3 m). It is considered that this level of water in a well is unlikely to be conducive to low flow sampling, owing to the inlet height of the pump and likely drawn down when sampling. Based on this, and for the sake of consistency, wells with minimal water columns should continue to be sampled via bailer; and
- The Shepparton and Coonambidgal Fluvium aquifers are characterised by high groundwater flow rates, while the Shepparton Colluvium is of a slower rate. The deployment time of a HydraSleeve™ prior to sampling (24 hours, see **Section 5.4** for further details) is considered sufficient to enable groundwater exchange between the well and the aquifer system to gain a representative sample from all aquifer types.

4.8 Data Quality Indicators

The pre-determined DQIs established for the project are discussed below in relation to precision, accuracy, representativeness, comparability and completeness parameters, as summarised in **Table 4.5**, with specific DQIs adopted for the investigation works summarised in **Table 4.6**.

Table 4.5: Data Quality Indicators

DQIs	Field	Laboratory
Precision	• Compliance with JBS&G's work instructions; • Compliance with groundwater sampling guidance such as field sampling methodologies, sample storage and preservation; • Investigation by suitably qualified and experienced personnel; and • Collection of blind duplicate and split samples.	• Use of NATA accredited laboratories; • Compliance with Defence Guidance Document E (Standard PFAS Analytical Suite (Revision 4, 1 October 2021)); • Using NATA accredited testing methods for analysis of PFAS; • Analysis of blind duplicate and split samples at a frequency of 1 in every 10 primary samples; and • Laboratory internal duplicate samples.
Accuracy	• Compliance with JBS&G's work instructions; • Compliance with groundwater sampling guidance such as field sampling methodologies, sample storage and preservation; • Calibration of sampling equipment; • Investigation by suitably qualified and experienced personnel; and • Collection of quality control samples.	• Analysis of method blanks, matrix spike recoveries, surrogate spikes recoveries, laboratory control spike recoveries; • Compliance with Defence Guidance Document E (Standard PFAS Analytical Suite (Revision 4, 1 October 2021)); and • Compliance with sample holding times.
Representativeness	• Compliance with JBS&G's work instructions.	• Analysis of contaminants of concern; • Analysis within holding times; • Analysis of rinsate, trip and field blanks; and

DQIs	Field	Laboratory
		• Analysis of laboratory field blanks.
Comparability	• Compliance with JBS&G's work instructions.	• Use of NATA accredited laboratories; • Using NATA accredited testing methods for analysis of PFAS; • Analysis of split samples; • Comparison of analytical results against adopted screening criteria; and • Comparison of data against historic data where available.
Completeness	• All critical locations sampled	• All critical samples analysed.

Table 4.6: Summary of Quality Assurance / Quality Control Program

Data Quality Objectives	Frequency	Data Quality Indicator
	Precision	
Blind duplicates (intra laboratory)	1 / 10 samples	<30 RPD[a]
Blind duplicates (inter laboratory)	1 / 10 samples	<30 RPD[a]
Laboratory duplicates[b]	1 / 10 samples	<30 RPD[a]
	Accuracy	
Method blanks	1 per lab batch	Less than the laboratory limit of reporting (<LOR)
Laboratory control samples	1 per lab batch	70-130% or as nominated in the laboratory's QC report
Matrix spikes	1 per lab batch	70-130% or as nominated in the laboratory's QC report
	Representativeness	
Sampling appropriate for media and analytes	-	-[c]
Samples extracted and analysed within holding times.	All samples	Samples analysed within 28 days (Eurofins and Envirolab) holding time for PFAS
Trip blank	1 per lab batch	<LOR
Rinsate blank	1 per day per field crew, where reusable equipment is used	<LOR
Field Blank	1 per day	<LOR
Laboratory blanks	1 per lab batch	<LOR
	Comparability	
Standard operating procedures for sample collection and handling	All Samples	Samples collected in accordance with relevant procedure[c]
Standard analytical methods used for all analyses	All Samples	All samples analysed by a laboratory that is NATA accredited for the analyses performed
Consistent field conditions, sampling staff and laboratory analysis	All Samples	-[c]

Data Quality Objectives	Frequency	Data Quality Indicator
Limits of reporting appropriate and consistent	All Samples	Laboratory LOR is below adopted screening criteria, where practical and allows relevant comparability between results where more than one laboratory is used
Completeness		
Sample description and Chain of Custody (COC) completed and appropriate	All Samples	-[c]
Appropriate documentation	All Samples	-[c]
Satisfactory frequency and result for QC samples	All QA/QC samples	5% frequency is met, RPDs within acceptable range identified above
Data from critical samples is considered valid	-	Critical samples valid
Sensitivity		
Analytical methods and limits of recovery appropriate for media and adopted site screening criteria	All Samples	Laboratory LOR is below adopted screening criteria, where practical

Table Notes:

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

b. Duplicate sample analysis performed by the laboratory as part of their internal QA/QC program for the data.

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

5. Sampling Methodology

The following sections detail the methodology to be undertaken for all sampling listed in this SAQP.

5.1 Prior to Sampling

Prior to the commencement of sampling activities, the field team will review the field sampling guide (**Appendix A** and **Appendix B**) and complete the checklist to ensure no prohibited items are brought to the investigation areas that may potentially contaminate or affect the integrity of the samples. Appropriate health and safety and environmental control documentation will be completed prior to the commencement of fieldworks. This documentation includes:

- A Health, Safety and Environmental Management (HSEMP) including Safe Work Method Statement (SWMS) developed to encompass hazard management and risk mitigation. This Site-specific safety plan will be reviewed, revised and understood by all field staff prior to the commencement of field works; and
- JBS&G will, if directed to by the base Environment and Sustainability Manager, complete a Environmental Clearance Certificate (ECC) prior to commencing fieldworks. The ECC will outline environmental conditions which are required to be implemented as part of the works.

5.2 General Sampling Requirements

The following sampling requirements will apply to all surface water, groundwater and sewage methodologies detailed in the following sections.

- All field instruments (e.g. water quality meter) will be calibrated prior to field events and as required during monitoring to optimise the accuracy of the measurements taken. The water quality meter will be bump tested daily and re-calibrated as required;
- Field records will be collected throughout the sampling event, which will include the following information as a minimum:
  - Sampling time, date and name of the sampler;
  - Weather conditions;
  - Sample collection method;
  - Sampling equipment decontamination procedures; and
  - Calibration and bump test records.
- A 'shaker test' will be undertaken on a small volume of the sample (approximately 10-25 mL). If foaming is noted within the sample, this will be documented on the sampling sheet;
- Each of the sample bottles will be labelled only using ball point pens with the project ID, date, sampler's initials and unique sample location ID (or QC sample name);
- Samples will be collected directly into appropriately preserved laboratory supplied bottles (Teflon-free). In order to minimise exposure to sunlight, sample bottles will be placed immediately into a pre-chilled ice chest, for subsequent transport to the testing laboratories. Sample containers, preservation procedures, sample storage requirements and holding times will comply with the requirements set out in "Australian Standard AS/NZS 5567.1:1998 and AS 4482.1";
- Chain of custody documentation will be completed for each batch of samples relinquished to the laboratory;

- Re-usable sampling equipment (e.g. sampling pole, interface probe, etc.) will be decontaminated in accordance with the procedure outlined in **Section 5.5**;
- QA/QC samples will be collected in accordance with **Section 4.7.2** and **Section 7** to assess the effectiveness of the sampling and decontamination procedures; and
- Samples will be analysed for the PFAS suite as outlined in **Table 6.1**.

In addition, sampling will be completed in accordance with the JBS&G field sampling guide which has been developed specifically for sampling for PFAS. The field sampling guide includes a detailed field checklist to mitigate potential sample contamination from PFAS during the investigation.

5.3 Surface Water Sampling

5.3.1 In-situ Sampling

Samples will be collected using the methodology outlined below which considers Australian/New Zealand Standard AS/NZS 5667.6:1998 Water Quality – Sampling, Part 6: Guidance on sampling rivers and streams, with amendments made as per WA DER 2017 guidance which address the specific issues associated with PFAS sampling.

In-situ surface water sampling will be undertaken from accessible swales and water bodies listed in **Table 4.3**. Sampling methodologies will consist of the following:

- Surface water field parameters (i.e. pH, electrical conductivity (EC), oxidation reduction potential (ORP), dissolved oxygen (DO) and temperature) will be recorded at the time of sampling using a pre-calibrated water quality meter;
- Field observations such as flow, turbidity, presence of suspended solids and odours, sheen, oily film, nuisance organisms which may fall into the well (i.e. ants or spiders), floating debris or frothing will be recorded on field sampling sheets. The condition of the water body from which the sample was obtained will include a record of the sample type, qualitative flow speed (e.g. stagnant, gentle flow, high flow) and channel width, to the extent practicable;
- When sampling is to be completed from a water body, a new laboratory-supplied (Teflon-free) container will be attached to a sampling pole and lowered into the water stream;
- Samples will be collected with the sample container positioned with opening orientated in downwards, facing down stream and at least 10 cm below the water surface to minimise disturbance of the water column and to minimise collection of sediment in the samples. The sample bottle will be filled to the top to ensure no headspace and the cap will be immediately applied; and
- Where sampling is to be conducted from surface inlets or outlets, the sample will be collected directly into the laboratory-supplied (Teflon-free) sample bottles with a gloved hand.

5.4 Groundwater Sampling

The following hierarchy of groundwater sampling methodology will be adopted:

1. Passive sampling using a High-density polyethylene (HDPE) HydraSleeve™; and
2. Sample collection by bailer.

HydraSleeve™ sampling methodology is considered an appropriate method for the collection of samples as part of this OMP and is the technique that has been used during previous OMPs sampling rounds. As such is the first preference for representativeness and consistency purposes. Sampling with a bailer is considered an appropriate back up methodology owing to the limited water column identified in several of the wells, which are unlikely to be appropriate for sampling via a low flow methodology. Justification for sampling types has been further discussed in **Section 4.7.3**.

5.4.1 Well Gauging

Prior to groundwater sampling, all well will be gauged based on the following methodology:

- Prior to sampling, groundwater levels will be gauged with an interface probe and measured against a specific mark at the top of the well casing, to assess standing water levels (SWLs) and the potential but unlikely presence of non-aqueous phase liquids (NAPL) within the groundwater well;
- As part of this OMP gauging round, an approximate measurement of the stick up (i.e. the distance between ground level and the top of the well casing) will be taken, to assist with calculation of groundwater levels below ground level; and
- A consolidated groundwater gauging event (initial gauging round) will be undertaken across the OMP groundwater monitoring well network at each monitoring event to the extent practicable. The gauging event is intended to be completed in one day to the extent practicable, however is subject to access and availability. Wells which have specific or difficult access constraints will not be included.

5.4.2 HydraSleeve™ Sampling

Groundwater sampling will be undertaken from all accessible groundwater monitoring wells listed in **Table 4.3**. Sampling methodologies will comprise the following:

- The correct HydraSleeve™ size selection for each monitoring well will be undertaken in line with the HydraSleeve™ Standard Operation Procedure (refer **Appendix B**). All wells are installed with the standard 50 mm diameter PVC, and as such the 2" 1L HydraSleeves™ will be adopted for the OMP;
- The HydraSleeve™ sampler is a flexible lay-flat HDPE sleeve with a weight on the bottom and check value on the top that is lowered into the well to the prescribed sampling depth. HydraSleeve™ will be either deployed to approximately 10 cm above the base of wells or accumulated sediment layer or a minimum of 2.5 m within the screen interval (so HydraSleeve™ has sufficient space to deploy within the screen). If sufficient water column is available, the HydraSleeve™ will be positioned such that it does not sit at the base of the well where sediment may be present. HydraSleeve™ will be deployed directly following gauging in most instances;
- After placement in the monitoring well, the HydraSleeve™ will be left for a minimum of 24 hours to re-equilibrate;
- The groundwater sample will then be collected by pulling the HydraSleeve™ up through the water column and to the surface at a rate of approximately 30 cm per second. The recovered water sample will be decanted into the appropriate laboratory supplied sample bottles;
- Groundwater water quality parameter field measurements (field parameters) will be recorded with a water quality meter following sample collection using extra sample water from within the deployed HydraSleeve™ decanted into a clean jar. Field parameters including pH, EC, Redox potential, DO and temperature will be measured using a calibrated water quality meter and sample container;

  Wells sampled via HydraSleeve™ methods are not purged prior to sampling. It is therefore proposed to collect an additional water sample for analysis of field parameters post sample collection, where insufficient volume is recovered from the initial HydraSleeve™ deployment; and

  Field observations such as colour, presence of suspended solids, turbidity, and the presence of odours, sheen, oily film, nuisance organisms, floating debris or frothing will also be recorded on field sampling sheets.

5.4.3 Bailer Sampling

Should the water column be identified as too short for the deployment of HydraSleeve™, a bailer will be used to collect the sample based on the following methodology:

- A new disposal bailer will be lowered into the well and into the available water column, with care taken not to strike the well base nor to stir up sediment. Additional deployments of the bailer will be made to collect sufficient sample; and
- Groundwater water quality parameter field measurements (field parameters) will be recorded with a water quality meter following sample collection using extra sample water from the bailer decanted into a clean jar. Field parameters including pH, EC, Redox potential, DO and temperature will be measured using a calibrated water quality meter and sample container.

5.5 Decontamination Procedures

Before and between sampling at each location, all non-disposable equipment (e.g. interface probe, HydraSleeve™ weights) will be decontaminated to reduce the risks of cross-contamination using the following procedure:

- Any debris will be removed from re-usable sampling equipment by scrubbing with a plastic brush followed by thorough rinsing with tap water then triple rinsing with laboratory supplied deionised water;
- If required, suitable soaps (Alconox® and Liquinox®) may be used following the water only decontamination approach. Detergents or Decon 90® will not be used for decontamination; and
- Rinsate blank samples collected from re-usable equipment following decontamination will be collected and analysed to assess the effectiveness of the decontamination procedures.

5.6 Waste Management

Generation of bulk wastes, such as purged groundwater are not anticipated during the proposed works (due to use of Hydrasleeves™), although minor water wastes may be generated as part of the works. Any waste waters will be collected in a drum located in the environmental shed on the South Bandiana golf course, for later off-base disposal to a licensed facility.

Waste gloves and sampling containers etc. will be collected and appropriately containerised and disposed of appropriately.

JBS&G will coordinate with the base Environment and Sustainability Manager and the AWMA base support team should additional support be required regarding Waste Management.

6. Sample Analysis

The key parameters of interest for the study comprise PFAS compounds that were historically present in fire-fighting foams used at the base, principally perfluorooctanesulfonic acid (PFOS), perfluorooctanoic acid (PFOA) and perfluorohexanesulfonic acid (PFHxS). However, all samples recovered during the investigation will be analysed for a broad PFAS analytical suite comprising the analytes listed in **Table 6.1.**

It is noted that the list is the same as that presented in Defence Guidance Document E, Standard PFAS Analytical Suite (Revision 4, 1 October 2021).

Table 6.1: PFAS Analytical Suite (28 Analytes)

Chemical Compound	CAS No.
Perflurobutanoic acid (PFBA)	375-22-4
Perfluoro pentanoic acid (PFPA or PFPeA)	2706-90-3
Perfluoro-n-hexanoic acid (PFHxA)	307-24-4
Perfluoro-n-heptanoic acid (PFHpA)	375-85-9
Perfluoro-n-octanoic acid (PFOA)	335-67-1
Perfluoro-n-nonanoic acid (PFNA)	375-95-1
Perfluoro-n-decanoic acid (PFDA)	335-76-2
Perfluoro-n-undecanoic acid (PFUnA)	2058-94-8
Perfluoro-n-dodecanoic acid (PFDoDA)	307-55-1
Perfluoro-n-tridecanoic acid (PFTrDA)	72629-94-8
Perfluoro-n-tetradecanoic acid (PFTeDA)	376-06-7
Perfluorobutane sulfonic acid (PFBS)	375-73-5
Perfluoropentanesulfonic acid (PFPeS)	2706-91-4
Perfluoro-n-hexane sulfonic acid (PFHxS)	355-46-4
Perfluoro-n-heptane sulfonic acid (PFHpS)	375-92-8
Perfluoro-n-octane sulfonic acid (PFOS)	1763-23-1
Perfluorodecanesulfonic acid (PFDS)	335-77-3
Perfluorooctane sulfonamide (PFOSA)	754-91-6
N-Methylperfluoro-1-octane sulphonamide (N-MeFOSA)	31506-32-8
N-Ethylperfluoro-1-octane sulphonamide (N-EtFOSA)	4151-50-2
2-(N-Methylperfluoro-1-octane sulphonamide)-ethanol (N-MeFOSE)	24448-09-7
2-(N-Ethylperfluoro-1-octane sulphonamide)-ethanol (N-EtFOSE)	1691-99-2
N-ethyl-perfluorooctanesulfonamidoacetic acid (NEtFOSAA)	2991-50-6
N-methyl-perfluorooctanesulfonamidoacetic acid (NMEFOSAA)	2355-31-9
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2 FTS)	27619-97-2
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2 FTS)	39108-34-4
1H,1H,2H,2H-dodecanesulfonic acid (10:2 FTS)	120226-60-0

The laboratory analytical results will be compared against relevant criteria as outlined in **Section 8.**

6.1 Laboratory Analysis

Sample analysis will be undertaken by Eurofins as the primary analytical laboratory and Envirolab as the secondary analytical laboratory, both NATA accredited for the analyses proposed.

Laboratory analytical methods used by both laboratories for PFAS and its individual chemical compounds are summarised as follows:

- Eurofins: LTM-ORG-2100 PFAS; and
- Envirolab: Org-035.

Both methods are in general accordance with the Defence Guidance Document E, Standard PFAS Analytical Suite (Revision 4, 1 October 2021). The laboratory LOR for waters range between 0.01-0.1 µg/L, although several locations will be analysed at a lower detection limit of 0.001-0.01 µg/L, as identified below.

As listed throughout this document, all surface water and groundwater samples will be analysed for PFAS suite as listed in **Table 6.1**. Samples that are not selected for analysis will be placed on hold at the laboratory.

Several locations across the management area are required to be analysed at a lower detection limit. The locations and reasoning is provided in **Table 6.2**.

Table 6.2: OMP Samples Requiring Lower Detection Limits

Sample Location	Reasoning
MW351, MW352, MW356, OTH019	These four locations represent groundwater conditions which are leaving East Bandiana into the residential area of Killara, including a private groundwater bore which represents a 'point of use'. The lower analysis was adopted for this sampling event in response to National Health and Medical Research Council (NHRMC) releasing finalised health-based drinking water guideline values (see **Section 8**).
SW390, SW416	The North East Water drinking water extraction point is located on Wodonga Creek, upstream from the confluence with Jack in the Box Creek, however downstream from the Kiewa River confluence. The laboratory lower detection limit has been adopted for SW309 and SW416 to identify if PFAS potentially originating from the base is present within the Kiewa River.

7. Quality Assurance and Quality Control

The QA/QC procedures have been developed based on the guidance in Schedules B2 and B3 of the ASC NEPM (NEPC 2013) and Section 8 of the Australian Standard 4482.1-2005: Guide to the investigation and sampling of sites with potentially contaminated soil (AS4482.1-2005) (acknowledging that this standard has been revoked but is nonetheless considered relevant for prevailing industry technical practice).

7.1 Field QA/QC Program

Field quality control will comprise of:

- Ensuring all sampling is undertaken by suitably qualified and experience JBS&G personnel;
- Adherence to standard procedures for field sampling and record keeping;
- Use of laboratory supplied sample containers;
- Preservation of samples on ice and transport to laboratories under chain of custody documentation;
- Submission of samples within the recommended holding times;
- Appropriate decontamination of any sampling equipment prior to sampling and between sampling locations;
- Collection of quality control samples; inter- and intra-laboratory duplicates, rinsate blanks and trip blanks; and
- Calibration of all field measuring equipment, such as water quality meters, and retention of calibration records.

7.1.1 Sample Labelling

All samples (including QC samples) will be labelled to include the sample identification number, date of collection, sampler initials and project number. The unique sample identification numbers will be determined in accordance with Defence's Annex L: Guidance on Data Management (see **Section 7.4**).

7.1.2 Intra-laboratory Duplicate Samples

Blind duplicate samples will be provided by the collection of two environmental samples from the same location. These samples will be preserved, stored, transported, prepared and analysed in an identical manner. As a minimum, the results of analyses on the blind duplicate sample pair will be assessed by calculating the RPDs between the results. The RPD will be calculated as the difference between the results divided by their mean value and expressed as a percentage. If the RPD exceeded the value adopted for any analytes, additional investigation would be required, or justification provided for not conducting additional investigation.

Blind duplicate samples will be collected at a rate of one duplicate for every 10 environmental samples in accordance with AS 4482.1-2005.

7.1.3 Inter-laboratory Duplicate Samples

Split samples provide a check on the analytical proficiency of the laboratories. Split samples will be provided by the collection of two environmental samples from the same location. These samples will be preserved, stored and transported in an identical manner. The split sample will be analysed by the secondary laboratory. As a minimum, the results of analyses on the split duplicate sample pair will be assessed by calculating the RPDs between the results. The RPD will be calculated as the difference between the results divided by their mean value and expressed as a percentage. If the RPD exceeds the value adopted for any analytes, additional investigation would be required, or justification provided for not conducting additional investigation.

Split duplicate samples will be collected at a rate of one duplicate for every 10 environmental samples in accordance with AS 4482.1-2005.

7.1.4 Rinsate Blanks

Rinsate blanks are collected from decontaminated field equipment using laboratory-supplied water. The purpose of the rinsate blanks is to detect potential cross-contamination associated with using the same equipment at multiple sampling locations (e.g. hand auger).

7.1.5 Field Blanks

Field blanks are collected from laboratory-supplied water sitting adjacent to a sample location for the duration of the sample period. The purpose of the field blanks is to identified if potential cross-contamination associated with the base is impacting samples as they are being collected.

7.1.6 Trip Blanks

Trip blanks consist of laboratory-supplied purge water and clean sand. The purpose of trip blanks is to detect potential contamination during sample transport. These samples will be kept within eskies during sampling activities and will not be opened in the field. Trip blanks will be analysed at the laboratory as regular samples for PFAS.

Trip blanks will be submitted with every batch of soil and water samples delivered to the respective primary laboratories.

7.2 Laboratory QA/QC Program

All analysis will be performed by laboratories accredited by NATA. For the purposes of this investigation, Eurofins will be the primary laboratory and Envirolab will be the nominated secondary laboratory. The reliability of test results from the analytical laboratories will be monitored according to the QA/QC procedures used by the NATA accredited laboratories. The laboratory QA/QC program will specify holding times, extraction dates, method descriptions, COC requirements, analysis, LOR and acceptance criteria for the results. Laboratory QA/QC requirements will be consistent with ASC NEPM requirements and are outlined below.

7.2.1 Laboratory Duplicate Samples

Laboratory duplicates provide data on analytical precision for each batch of samples.

Laboratory duplicates are performed at a rate of one duplicate for batches of 8-10 samples with an additional duplicate for each subsequent ten samples.

7.2.2 Laboratory Control Samples

Laboratory control samples consist of a clean matrix (de-ionised water or clean sand) spiked with a known concentration of the analyte being measured. These samples monitored method recovery in clean samples and are used (where required) to evaluate matrix interference by comparison with matrix spikes.

7.2.3 Surrogate Spike Recoveries

For organic analyses, a surrogate is added at the extraction stage in order to verify method effectiveness. The surrogate is then analysed with the batch of samples and percentage recovery calculated.

7.2.4 Matrix Spike Recoveries

Matrix spikes consist of samples spiked with a known concentration of the analyte being measured, in order to identify properties of the matrix that may hinder method effectiveness. Sample are spikes with concentrations equivalent to 5 to 10 times the LOR and percentage recovery calculated.

7.2.5 Method Blanks

Method blanks (de-ionised water or clean sand) are carried through all stages of sample preparation and analysis at a rate of 1 per 20 or 1 per batch. Analyte concentrations in blanks should be less than the stated LOR. Reagent blanks are run if the method blank exceeds the LOR. The purpose of method blanks is to detect laboratory contamination.

7.3 Data Validation Acceptance Criteria

Data validation of the QA/QC elements will be undertaken to ensure that the data reported can be used to achieve the project objectives. Should data be found to fall outside the data acceptance criteria, an investigation will be performed to determine if the data is acceptable or if corrective actions need to be instigated. The QA/QC data will be assessed against the DQIs, as summarised in **Section 4.7.2.**

7.4 Sample Naming Convention

The sample naming convention to be adopted for the study will be as per that detailed in Annex L (Guidance on Data Management) of the DCMM (Defence 2021b). A summary of sampling naming requirements is listed below:

- Property ID (PPPP, four characters);
- Type of sample recovered (e.g. MW: Monitoring Well, SW: Surface Water);
- Location Specific ID (000, minimum three numeric characters);
- For grouped groundwater wells, the aquifer sampled [P (perched), S (shallow), I (intermediate), D (deep)] is required. For standard wells, aquifer is not required in the naming convention; and
- Date in reverse order (YYMMDD).

Examples, for groundwater 0939_MW104S_200818.

Naming convention for QA/QC samples:

- Blind Field Duplicate: PPP_QC1XX_YYMMDD;
- Blind Field Triplicate: PPP_QC2XX_YYMMDD;
- Rinsate: PPP_QC3XX_YYMMDD;
- Field Blank: PPP_QC4XX_YYMMDD; and
- Trip Blank: PPP_QC5XX_YYMMDD.

It should be noted that the Property ID for South Bandiana is 0445S, for North Bandiana is 0445N and East Bandiana is 0445E.

7.5 Field Work Communication Protocol and Reporting

The works described above will comply with the Defence Field Work Communication Protocol and Reporting document (Defence 2021a) to ensure that the agreed scope has satisfactorily been completed. Processes to be followed include:

- Prior to field works: Field consultants to review SAQP prior to undertaking field works and take documentation into the field for easy reference;
- During field works: If a portion of the field works as defined in the SAQP cannot be completed owing to site conditions or circumstances, field consultants are to inform the project manager, who will in turn communicate with Defence; and
- Post field works: The consultant will provide a Field Work Report (template provided in Defence 2021a) within five working days of receiving all laboratory analytical results.

Communication with Defence will also be undertaken if JBS&G identify evidence that potential re-sampling or re-analysis is required as per the review triggers identified in the PMAP (Defence 2020).

8. Screening Criteria

While the assessment of risk is not the primary objective of the OMP assessment scope, the analytical data will be screened against relevant tier 1 screening criteria as outlined in the ASC NEPM (2013) and PFAS NEMP (HEPA 2020) to identify if the base risk profile has changed compared to current risk profile.

8.1 Groundwater and Surface Water

Under the Environment Protection Act 2017 (VIC) (the Act) the Environment Reference Standard (Victorian Government 2021b) (ERS) has been made under Section 93 of the Act, which requires environmental values of groundwater to be protected, according to the natural salinity of the groundwater. The groundwater quality across the base and Management Area is classified as Segment A1, A2 and B (according to analysis completed as part of the DSI (Golder 2018) and DSI Addendum (JBS&G 2024a)). Under the ERS, the base is also within the geographic region that falls within the Murray and Western Plains, Rivers and Streams Segment, as such, the applicable environmental values have been summarised in **Table 8.1**:

Table 8.1: Groundwater and Surface Water Environmental Values

Environmental Value	Groundwater	Surface Water	Notes
Water Dependent Ecosystems and Species	✓	✓	Slightly to moderately modified applies to surface water
Potable Water Supply (Desirable)	✓	✓	Identified as human consumption after appropriate treatment for surface water
Potable Mineral Water Supply	✓		
Agriculture and Irrigation (Irrigation)	✓	✓	
Agriculture and Irrigation (Stock Watering)	✓		
Human consumption of aquatic foods		✓	
Aquaculture		✓	
Industrial and Commercial	✓	✓	
Water-based Recreation (Primary Contact Recreation)	✓	✓	
Water-based Recreation (Secondary Contact)		✓	
Water-based Recreation (Aesthetic Enjoyment)		✓	
Traditional Owner Cultural Values	✓	✓	
Buildings and Structures	✓		
Geothermal Properties	✓		

An evaluation of groundwater and surface water environmental values is presented in **Table 8.2**, which summarises whether they are existing, likely or potential or unlikely for on- and off-base, in accordance with the work completed as part of the DSI (Golder 2018), HHERA (Golder 2020) and DSI Addendum (JBS&G 2024a). Further details on the assessment of relevant environmental values (previously termed beneficial users under the State Environmental Protection Policy (Waters)) can be found in these documents.

Table 8.2: Groundwater and Surface Water Environmental Values On- and Off-Base

Environmental Value	On-Base			Off-Base		
	Existing	Likely/ Potential	Unlikely	Existing	Likely/ Potential	Unlikely
Water Dependent Ecosystems and Species	✓			✓		
Potable Water Supply (Desirable);			✓		✓	
Potable Mineral Water Supply			✓			✓
Agriculture and Irrigation (Irrigation)			✓		✓	
Agriculture and Irrigation (Stock Watering)			✓	✓		
Industrial and Commercial			✓			✓
Human consumption of aquatic foods			✓	✓		
Aquaculture			✓			✓
Water-based Recreation (Primary Contact Recreation)			✓	✓		
Water-based Recreation (Secondary Contact)		✓		✓		
Water-based Recreation (Aesthetic Enjoyment)	✓			✓		
Traditional Owner Cultural Values	✓			✓		
Buildings and Structures	✓			✓		
Geothermal Properties			✓			✓

Based on the above, the tier 1 screening criteria that has been adopted for the relevant environmental values has been provided in **Table 8.3**.

It should be noted that surface water interacts with groundwater in off-base areas. As such, from a screening perspective, the applicable groundwater criteria will also be applied to surface water for the purposes of this assessment.

Table 8.3: Tier 1 Screening Criteria for Water

Adopted Tier 1 Screening Criteria	Relevant Environmental Value	PFOS/PFHxS	PFOS	PFHxS	PFOA	PFBS
Freshwater: High conservation/ecological value systems (99% species protection)	Water Dependent Ecosystems and Species	0.00023 µg/L	-	-	19 µg/L	-
Freshwater: Slightly to moderately disturbed systems (95% species protection)		0.13 µg/L	-	-	220 µg/L	-
Drinking water	Traditional Owner Cultural Values, Agriculture and Irrigation (Irrigation and stock watering)	-	0.008 µg/L	0.03 µg/L	0.2 µg/L	1.0 µg/L
Recreational water	Water-based Recreation (Primary Contact Recreation, Secondary Contact, Aesthetic Enjoyment)	2 µg/L	-	-	10 µg/L	-

HEPA 2020 has adopted trigger values or species protection levels for toxicants, which provide guidance for assessment of aquatic ecosystems. Percent species protection levels range from 80% (highly disturbed systems) to 99% (largely unmodified systems). The water bodies on and surrounding the base range in ecosystem disturbance and modification, and as such different protection levels apply. The following is a general guide and justification for adopted species protection based on water feature:

- **On-base built drainage channel, swale or pipework:** No species protection as protection of beneficial uses in artificial stormwater drains is not a requirement;
- **On-base stormwater pond, dam or depression:** 95% species protection adopted as vegetation is generally present in and around the moderately to highly modified feature which supports a freshwater ecosystem; and
- **On and off-base water bodies (i.e. rivers, creeks, lakes and wetlands):** 99% species protection adopted.

For the purposes of this SAQP, all results have been compared to 99% species protection as all waters samples have the potential to migrate into on and off-base creeks, lakes, wetlands and retention basins, and the NEMP recommends the adoption of this criteria owing to bioaccumulation and biomagnification in wildlife. The screening criteria for 95% species protection have been provided for reference in regard to on-base stormwater ponds, dams or depressions.

In the absence of a published guideline value for irrigation and stock watering, the drinking water values have been considered as an initial screening value, as is consistent with the HHERA (Golder 2020).

No criteria have been adopted for the environmental values Potable Mineral Water Supply, Industrial and Commercial and Geothermal Properties, as these uses are considered unlikely to be realised within the Management Area. No criteria have been adopted for the environmental value Buildings and Structures as no PFAS criteria has been developed for this scenario and not known to affect the integrity of structures.

In June 2025, the NHRMC released finalised health-based drinking water guidance values, these values have been incorporated into the Tier 1 screening criteria in **Table 8.1** above.

9. Reporting

9.1 Sampling Event Report

A sampling event report (SER) will be produced at the completion of each monitoring event that summarises the data and findings of each monitoring event. The report will be prepared in accordance with the Defence Ongoing Monitoring Program Reporting Guidance document (Defence 2024). Each report will present the findings and contain the following information:

- Introduction;
- Scope of work completed;
- Field activities undertaken and description of sampling methodologies used;
- Field observations (e.g. condition of monitoring wells, description of purged water) and water quality parameter measurements;
- Use of appropriate nomenclature of sampling locations as per DCMM Annex L (Defence 2021b);
- Summary of any changes to the monitoring network condition that may affect data integrity, or require rectification works, and recommendations for repair, replacement of decommissioning of a location;
- Evaluation of the applicability of adopted screening criteria;
- Review of the suitability of the data for assessment purposes (QA/QC evaluation);
- Summary tables presenting gauged groundwater and surface water levels;
- Presentation of inferred groundwater contours for the relevant aquifers and inferred groundwater flow direction in a figure;
- Summary tables of analytical results in comparison to adopted screening criteria generated through management of data on the Defence ESdat database, and naming of sampling locations as per DCMM Annex L (Defence 2021b);
- Review and identification of triggers as outlined in the OMP, noting this document is under revision and new triggers may be available at the time of OMP preparation;
- Figures showing results in accordance with the Ongoing Monitoring Program Reporting Guidance document (Defence 2024);
- Laboratory reports, COC documentation, field sampling records, data validation and QA/QC details, equipment calibration certificates and bump test records and other relevant documentation; and
- Any deviations from the SAQP encountered during completion of the sampling event, justification for the deviations and any impacts of these changes on the data or program.

In the event that further investigation, management and/or remediation are required, recommendations will be presented in a separate 'technical memorandum'.

9.2 Ongoing Monitoring Reporting

Upon completion of each monitoring period an ongoing monitoring report (OMR) will be prepared. The report will be prepared in accordance with the Defence Ongoing Monitoring Program Reporting Guidance document (Defence 2024). As a minimum, each ongoing monitoring report should include the following:

- The factual information described in **Section 7.1**;
- Evidence of compliance with the requirements of the SAQP and meeting stated objectives of the OMP;

- Relevant figures depicting sampling locations and site-specific hydrogeological features;
- Use of appropriate nomenclature of sampling locations as per DCMM Annex L (Defence 2021b);
- Laboratory results and analysis including comparison with relevant screening criteria as identified in each OMP;
- Assessment and commentary on appropriate QA/QC procedures;
- A discussion of analytical results in relation to the following:
    - Trends in PFAS concentrations, including an assessment of temporal changes and/or changes to the extent of PFAS impacts. Trends should be assessed using an appropriate statistical analysis approach (e.g. using Mann-Kendall or similar analysis), with a specified level of confidence based upon the number of monitoring rounds completed;
    - Consideration, based on data trends, as to whether any of the existing remediation/management measures should be re-assessed, with a view to potential modification, supplementation, or cessation;
    - Assessment of whether changes to the CSM and/or risk assessment are required; and
    - Whether recalibration or changes to the groundwater model are required to provide a better understanding of the potential future extent of PFAS impact in groundwater.
- Based on the data obtained, an assessment of the OMP sampling requirements with a view to establishing whether:
    - The number of locations monitored could be reduced, such as where PFAS concentrations are stable and are considered to present a low risk to receptors;
    - Additional monitoring locations are required, including the installation of new monitoring wells or sampling of additional existing wells (and/or private bores) to provide better understanding of the nature, extent or magnitude of PFAS impacts in a particular portion of the Management Area; and
    - The frequency of monitoring should increase or decrease to provide better understanding of PFAS concentration fluctuations and potential risks to receptors.
- An overview of remedial works or construction and maintenance activities undertaken in the Management Area during the reporting period, which may impact the CSM;
- All deviations from the SAQP encountered in the monitoring period will be documented, along with a statement of how these deviations impact on the data quality objectives or overall objectives of the OMP;
- A statement as to whether the risk profile has changed overall, or at any specific location in the Management Area. Based on potential changes to the risk profile, recommendations would be made as to whether this should trigger an OMP and/or PMAP review, or other actions; and
- The sampling event Factual Reports and SAQP for the relevant monitoring period will be appended to the OMR.

It is noted that the OMP document is currently under revision and is likely to be finalised by the end of 2024. While this SAQP is based on the existing OMP (Defence 2020), the chance may be taken to evaluate the data in the OMR against updated parameters such as trigger levels if the OMP document is updated.

10. References

10.1 Previous Investigation Reports

Bandiana Military Area, PFAS Management Area Plan. Document Number 1777738-153-R-RevA. November 2020. (Defence 2020).

Bandiana Military Area, PFAS Ongoing Monitoring Plan. March 2025 (Defence 2025).

PFAS Detailed Site Investigation, Bandiana Military Area. Document Number 1777738-081-R-RevB. 14 September 2018 (Golder 2018).

Human Health and Ecological Risk Assessment, Bandiana Military Area. Document Number 1777738-150-R-RevB. November 2020 (Golder 2020).

Health Safety and Environment Management Plan, PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/143,083 Rev 0. 25 March 2022. (JBS&G 2023).

PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area, Detailed Site Investigation (DSI) Addendum. Document Number 61395/ 146,407 Rev 1. JBS&G Australia Pty Ltd. 14 June 2024 (JBS&G 2024a).

PFAS Mass Flux Study – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/ 153,765 – Rev 0. JBS&G Australia Pty Ltd. 1 November 2024 (JBS&G 2024b).

Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP). Document Number 61395/163,009 – Rev 0. JBS&G Australia Pty Ltd. 22 November 2024 (JBS&G 2024c).

Source Areas 1 and 7 Further Investigation – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/162,538 Rev C. JBS&G Australia Ltd Pty. 20 March 2025 (JBS&G 2025).

10.2 Standards and Guidelines

AS 4482.1-2005, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soils, Part 1 - Non-volatile and Semi-volatile Compounds (withdrawn as pending revision, referred to for 'state of knowledge'). (AS 2005).

Australian/New Zealand Standard AS/NZS 5667.6:1998 Water Quality – Sampling, Part 6: Guidance on Sampling Rivers and Streams. (AS/NZS 1998).

Ongoing Monitoring Program Reporting Guidance, dated 29 February 2024. (Defence 2024).

Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance – Routine Water Quality Monitoring. (Defence 2019).

Field Work Communication Protocol and Reporting, Version 1, dated 11 November 2021. (Defence 2021a).

Contamination Management Manual (DCMM), Annex L – Data Management, August 2019, Amended June 2021. (Defence 2021b).

Quality System Manual Schedule B15 USEPA DQO Process. (Department of Defence, Department of Energy 2018).

Groundwater Sampling Guidelines, Publication 669.1, February 2022. (EPA 2022).

Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication 701, June 2009. (EPA 2009).

PFAS National Environmental Management Plan (NEMP) Version 3.0, March 2025. (HEPA 2025).

National Environmental Protection (Assessment of Site Contamination) Measure (1999, as amended 2013) (ASC NEPM). (NEPC 2013).

Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water, August 2019. (NHMRC 2019).

Drinking Water Guidelines, June 2025. (NHMRC 2025).

Sampling Design Part 1 – Application, Contaminated Land Guidelines. August 2022. (NSW EPA 2022a).

Sampling Design Part 2 – Interpretation, Contaminated Land Guidelines. August 2022. (NSW EPA 2022b).

Guidance for the Data Quality Objectives Process (EPA QA/G-4). (USEPA 2006).

Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8). (USEPA 2002).

Interim Guideline on the Assessment and Management of Perfluoroalkyl and Polyfluoroalkyl Substances, WA DER. (WA DER, 2017).

11. Limitations

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

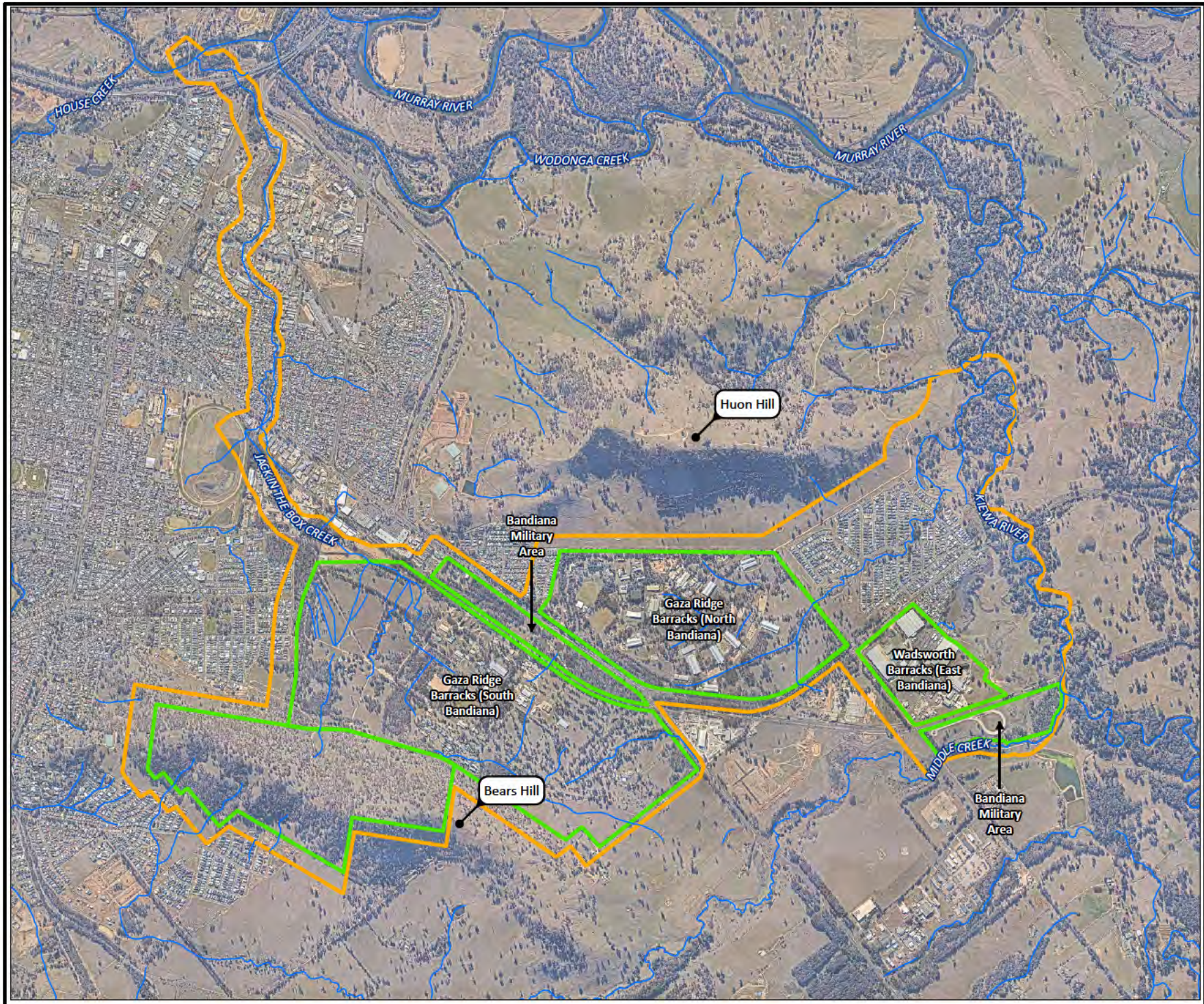
Changes to the conditions may occur subsequent to the investigations described herein, through natural processes or through the intentional or accidental addition of contaminants. The conclusions and recommendations reached in this report are based on the information obtained at the time of the investigations.

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

Figures included are as follows:

- Figure 1: Site Location Plan;
- Figure 2: Source Areas and Contaminated Sites Record (CSR) IDs;
- Figure 3: Surface Water Divide and Pathways;
- Figure 4A: Jack in the Box Creek Catchment Groundwater Monitoring Locations;
- Figure 4B: Kiewa River Catchment Groundwater Monitoring Locations;
- Figure 5A: Jack in the Box Creek Catchment Surface Water Monitoring Locations; and
- Figure 5A: Kiewa River Catchment Surface Water Monitoring Locations.



Legend

- Management Area
- Bandiana Military Area
- Watercourse

JBS&G

Job No: 61395

Client: Department of Defence

Version: FINAL | Date: 02-Apr-2025

[redacted]

Scale 1:35,000

0 500 1,000
metres

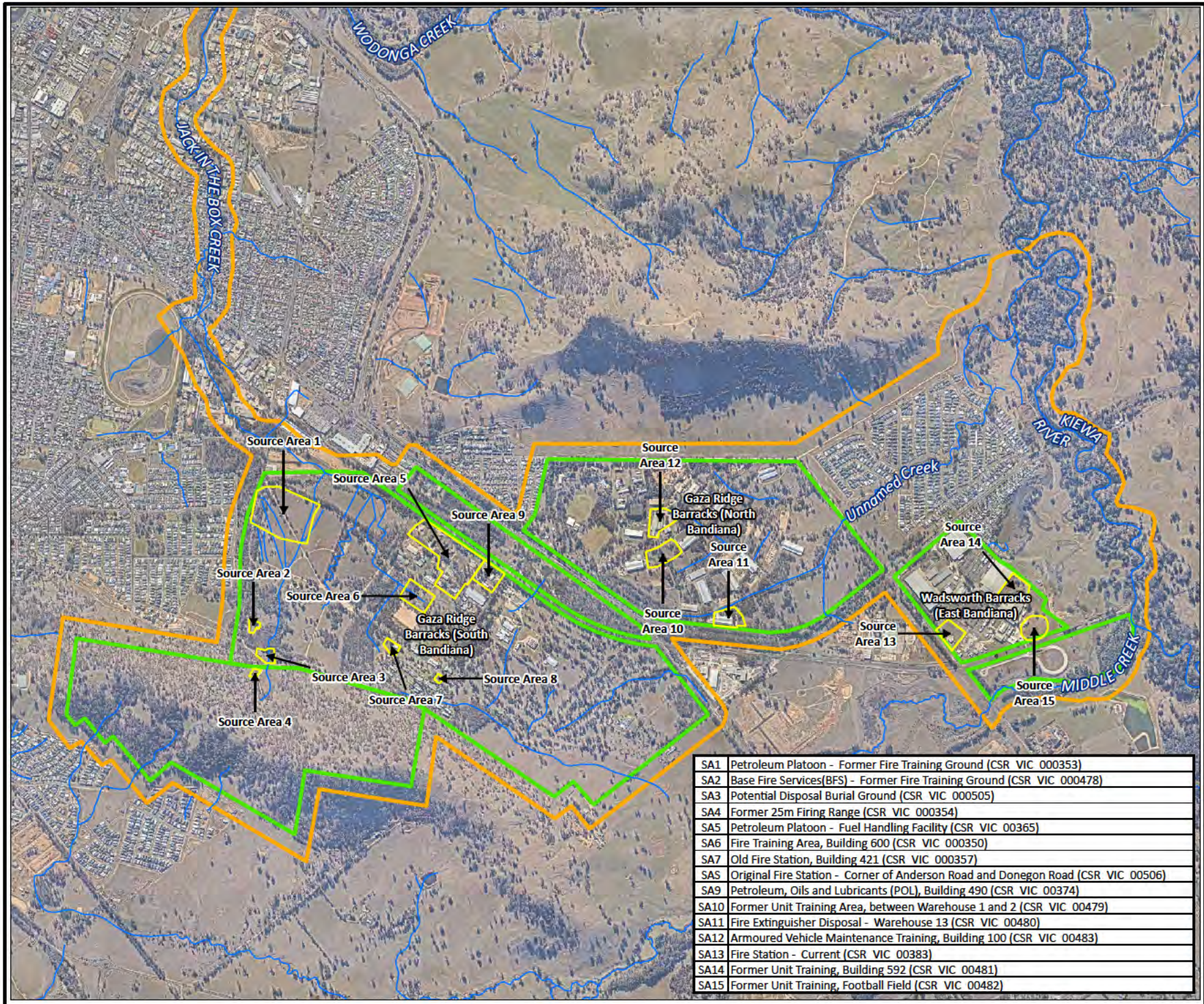
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

SITE LOCATION PLAN

FIGURE 1

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground (CSR VIC 000353)
SA2	Base Fire Services(BFS) - Former Fire Training Ground (CSR VIC 000478)
SA3	Potential Disposal Burial Ground (CSR VIC 000505)
SA4	Former 25m Firing Range (CSR VIC 000354)
SA5	Petroleum Platoon - Fuel Handling Facility (CSR VIC 00365)
SA6	Fire Training Area, Building 600 (CSR VIC 000350)
SA7	Old Fire Station, Building 421 (CSR VIC 000357)
SAS	Original Fire Station - Corner of Anderson Road and Donegon Road (CSR VIC 00506)
SA9	Petroleum, Oils and Lubricants (POL), Building 490 (CSR VIC 00374)
SA10	Former Unit Training Area, between Warehouse 1 and 2 (CSR VIC 00479)
SA11	Fire Extinguisher Disposal - Warehouse 13 (CSR VIC 00480)
SA12	Armoured Vehicle Maintenance Training, Building 100 (CSR VIC 00483)
SA13	Fire Station - Current (CSR VIC 00383)
SA14	Former Unit Training, Building 592 (CSR VIC 00481)
SA15	Former Unit Training, Football Field (CSR VIC 00482)

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Watercourse

JBS&G

Job No: 61395

Client: Department of Defence

Version: FINAL | Date: 02-Apr-2025

[redacted]

Scale 1:30,000

0 500 1,000
metres

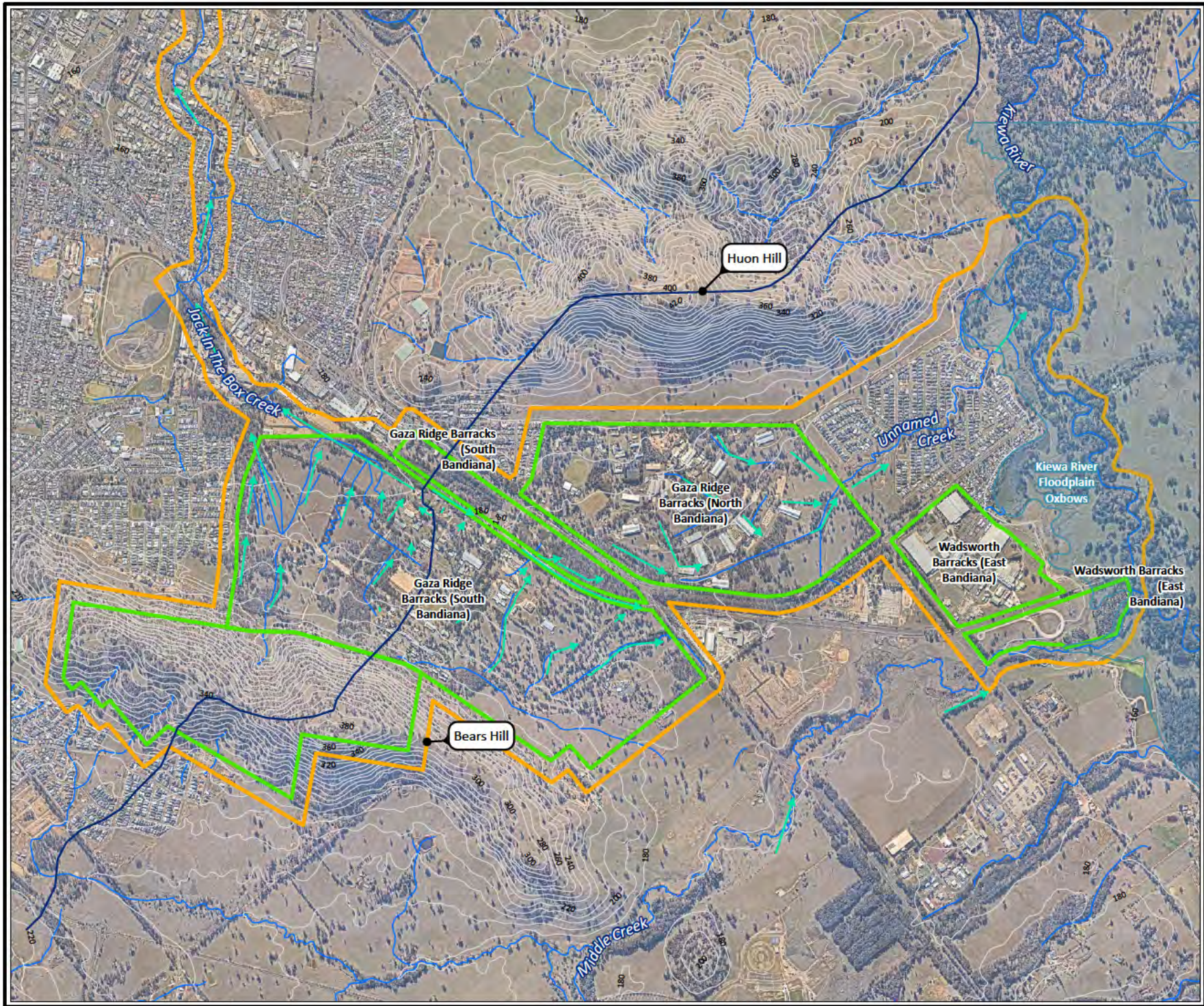
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

SOURCE AREAS AND CONTAMINATED SITES RECORD (CSR) IDs

FIGURE 2

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Kiewa River Floodplain
- 10m Contours
- Stormwater Divide
- Watercourse
- Drainage Flow Direction

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[redacted]

Scale 1:30,000

0 500 1,000
metres

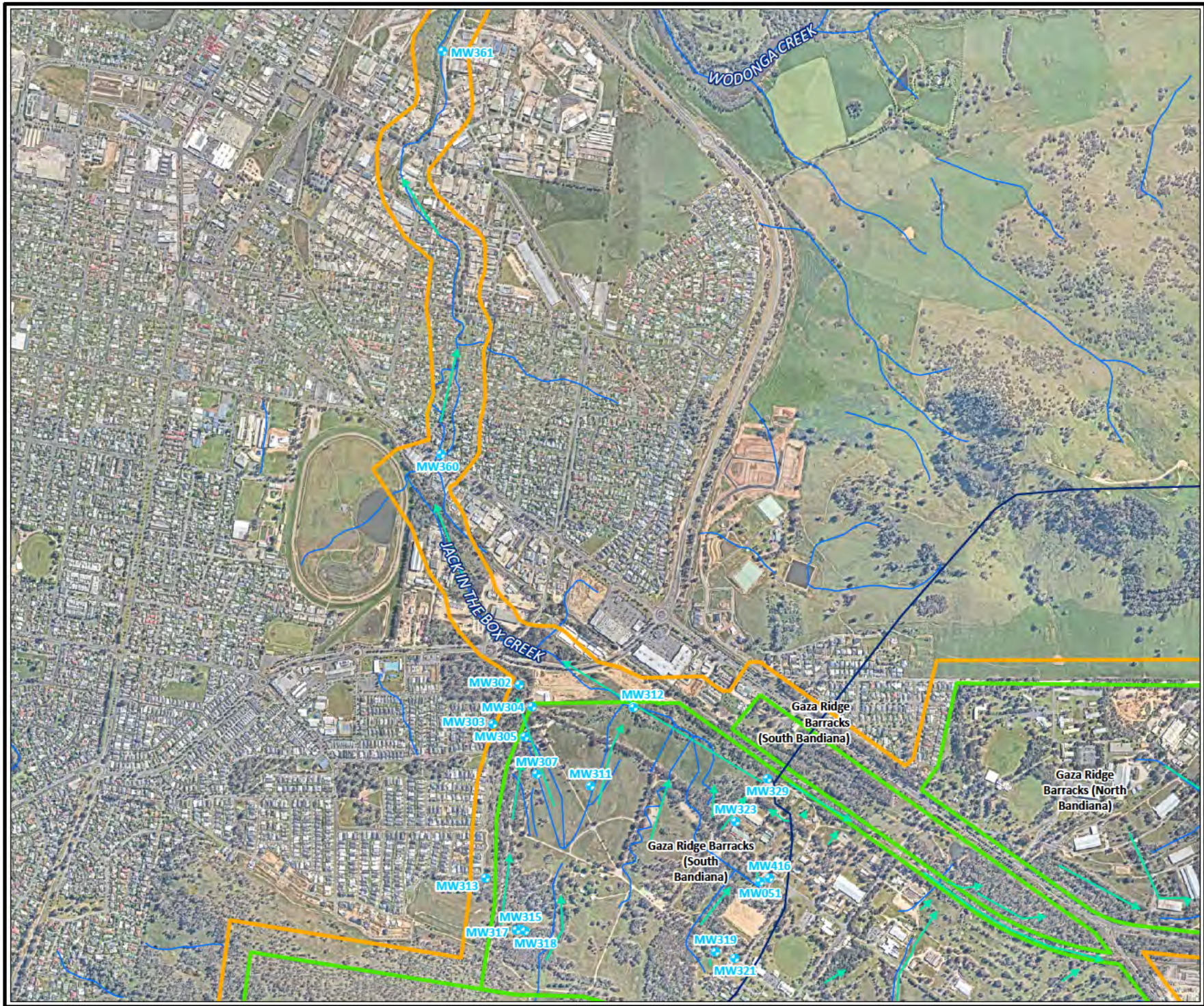
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

SURFACE WATER DIVIDE AND PATHWAYS

FIGURE 3

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Drainage Channel
- Stormwater Divide
- Watercourse
- Shepparton Colluvium - Shallow Aquifer

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[redacted]

Scale 1:20,000

0 450 900

metres

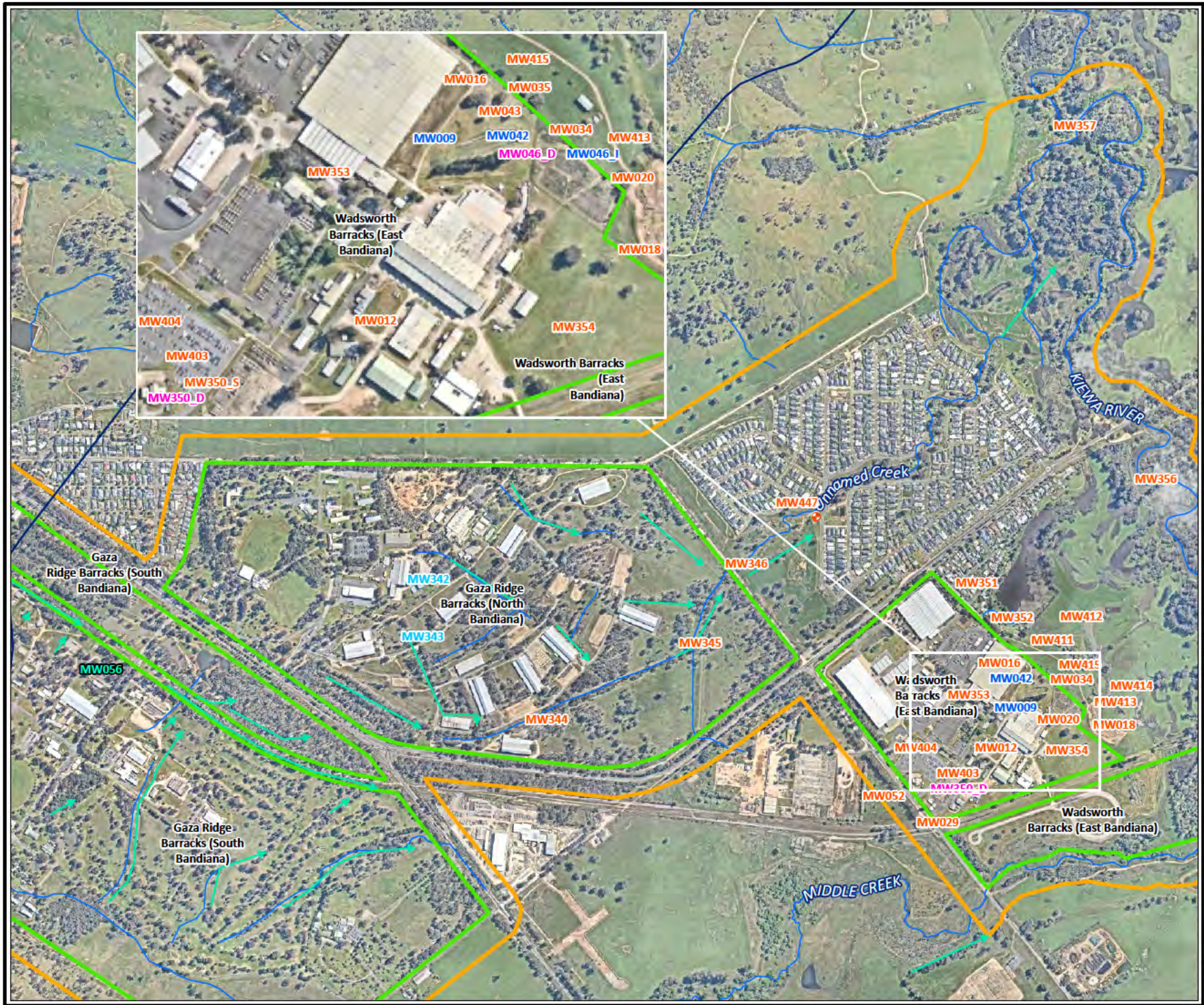
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

JACK IN THE BOX CREEK CATCHMENT GROUNDWATER MONITORING LOCATIONS

FIGURE 4A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Drainage Channel
- Stormwater Divide
- Watercourse
- Perched Water
- Shepparton Colluvium - Shallow Aquifer
- Shepparton and Coonambidgal Fluvium -Intermediate Aquifer
- Shepparton and Coonambidgal Fluvium -Shallow Aquifer
- Shepparton and Coonambidgal Fluvium -Deep Aquifer

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[redacted]

Scale 1:17,000

0 350 700
metres

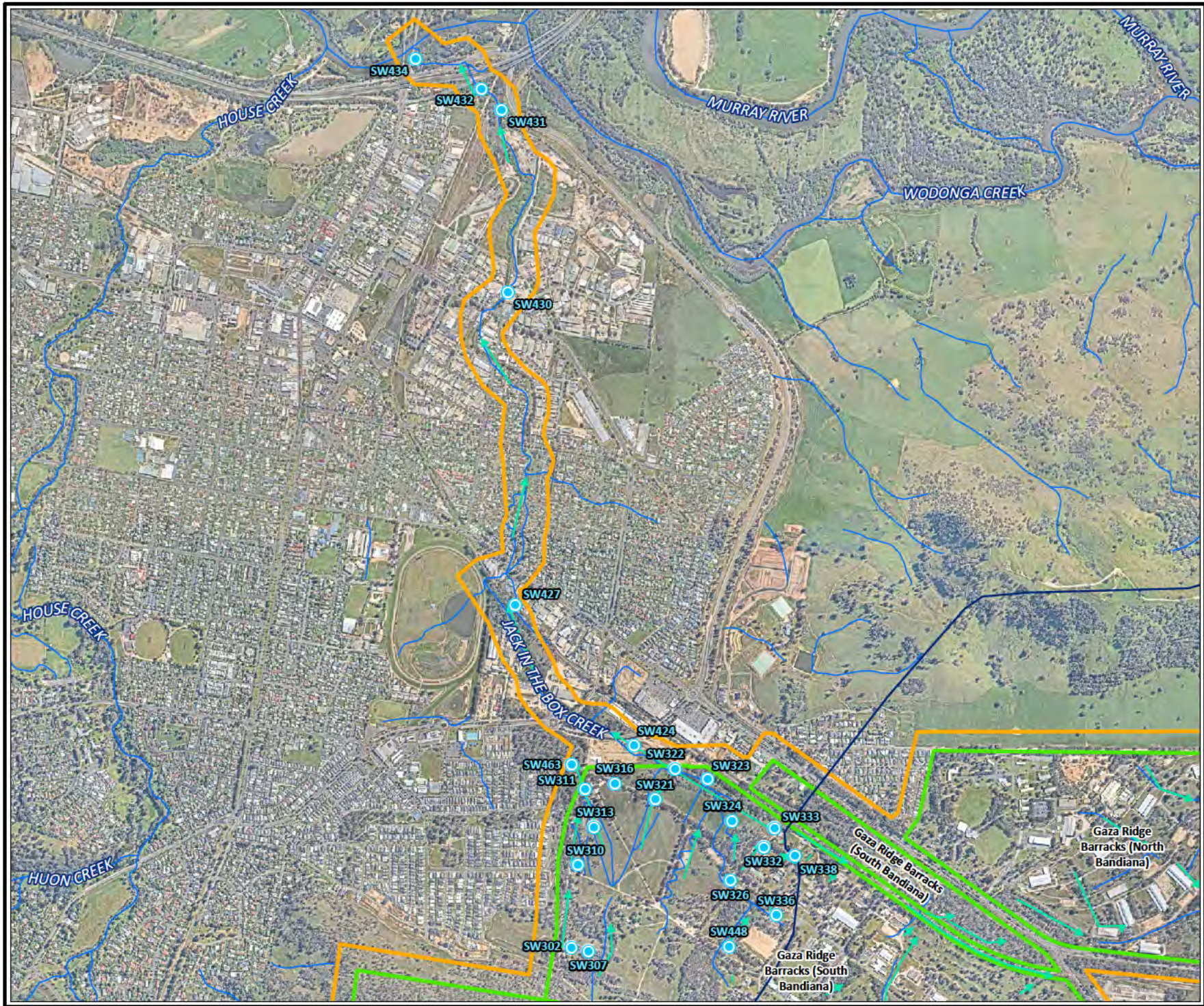
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

KIEWA RIVER CATCHMENT GROUNDWATER MONITORING LOCATIONS

FIGURE 4B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Drainage Channel
- Stormwater Divide
- Watercourse
- Surface Water

JBS&G

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[redacted]

Scale 1:24,500

0 450 900
metres

Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

JACK IN THE BOX CREEK CATCHMENT SURFACE WATER MONITORING LOCATIONS

FIGURE 5A

[redacted]

Legend

- Management Area
- Bandiana Military Area
- Drainage Channel
- Stormwater Divide
- Watercourse
- Surface Water

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[redacted]

Scale 1:28,000

0 500 1,000
metres

Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

KIEWA RIVER CATCHMENT SURFACE WATER MONITORING LOCATIONS

FIGURE 5B

[redacted]

Appendix A PFAS Sampling Guidance

PFAS Sampling Checklist Part 1

Checklist for items prohibited at site during PFAS Investigations (adopted from WA DER 2017)		
Clothing and Food		**Y/N**
New clothing	Has all field clothing to be washed a minimum of six times after purchase before using at the site?	
Clothing, including boots, with stain-resistant, rain resistant, or waterproof coatings/treated fabric (e.g. GORE-TEX®)	Where sampling during rain was unaviodable, was polyethylene rain gear (e.g. disposable LDPE), vinyl, or polyvinyl chloride (PVC) waterproof clothing used?	
Tyvek® clothing	Have Tyvek clothes been removed from field bag and vehicle prior to mobilising to site?	
Fast food wrappers and containers, pre-wrapped foods and snacks (e.g. chocolate bars, energy bars, muesli bars, potato chips etc.)	Is all food being taken to site contained in rigid plastic containers or bags or stainless steel containers?	
Sampling Equipment and Containers		
Teflon®-containing or -coated field equipment (tubing, bailers, tape, plumbing paste, etc.)	Does all sampling equipment comprise High Density Polyethylene (HDPE), silicone tubing, and HDPE or polypropylene?	
Teflon®-lined lids on containers (e.g. sample containers, rinsate water storage containers)	Have specific sample containers provided by the laboratory confirmed to comprise either polypropylene or HDPE for sample containers?	
Other Products		
Aluminium foil	Has HDPE sheeting (commonly used as drop cloths for painting or home improvement) been sourced as a replacment for aluminium foil, if required?	
Self-sticking notes and similar office products (e.g. 3M Post-it notes)	Have these products been removed from site vehicles and field documentation?	
Waterproof paper, notebooks, and labels	Have all waterproof stationary been removed from site vehicles and field documentation and replaced with standard paper and paper labels? Aluminum clipboard to be used	
Markers (e.g. Sharpies)	Have ball point pens used for all labelling and note taking?	
Drilling fluid containing PFAS	If a drilling method requiring drilling fluid is to be used at the site has it been confirmed that drilling fluids to be used are PFAS-free?	
Detergents and decontamination solutions (e.g. Decon 90® Decontamination Solution)	Follow water-only decontamination approach. Is sufficient water avaliable on-site for removing all debris by scrubbing with a plastic brush followed by thorough rinsing with tap water and triple rinsing with distilled or deionised water?	
Reusable chemical or gel ice packs (e.g. BlueIce®)	Has all ice been contained by double bagging in plastic (polyethylene) bags?	
Many Sunscreens and Insect Repellents contain PFASs and should not be brough to site	Is one of the following or other acceptable products available for use at the site? Sunscreens - Alba Organics Natural Sunscreen, Yes to Cucumbers, Aubrey Organics, Jason Naturakl Sunblock, Kiss my face, and baby sunscreens that are PFAS free or "natural" Insect Repellants - Jason Natural Quit Bugging Me, Repel Lemon Eucalyptus Insect Repellent, Herbal Armor, California Baby Natural Bug Spray, BabyGanics Sunscreen and insect repellent - Avon Skin So Soft Bug Guard Plus - SPF 30 Lotion	

PFAS Sampling Checklist Part 2

Other Considerations when Sampling for PFAS	Y/N or N/A	Comments
Groundwater Well Drilling, Development and Sampling		
Detergents or Decon 90® NOT TO BE USED for decontamination - Alconox® and Liquinox® soap may be used, if required following water-only decontamination approach. Is sufficient water available on-site for removing all debris by scrubbing with a plastic brush followed by thoroughly rinsing with tap water and triple rinsing with distilled and deionised water (Grade 3 or Millipore water)?		
Where water has been used during the drilling process, has a sample of the water been collected for analysis?		
Following contact with bore water have hands been washed with soap and thoroughly rinsed prior to donning a clean, new pair of disposable nitrile gloves?		
Has a new pair of disposable gloves been donned between development/sampling of each new well?		
Has additional hand washing been undertaken prior to donning a new pair of gloves when the old pair was compromised or if ungloved hands touched items that may represent potential PFAS contamination?		
Has all development/purged water transported by a licensed waste disposal contractor for appropriate disposal at a facility licensed to receive PFAS-impacted materials?		
Has a peristaltic pump with disposable HDPE or silicone tubing or polypropylene HydraSleeves been used for groundwater sampling?		
Where depth to groundwater prevents the use of a peristaltic pump, then use of bladder pumps may be considered. Where a bladder is to used are all internal parts (bladders, check balls, O-rings, compression fittings) Teflon free?		
Are sufficient bladders and O-rings available for replacement at each sampling location?		
Where a bladder pump was used, were bladders and O-rings replaced prior to sampling at each location?		
Soil Drilling and Aquatic Sampling		
Detergents or Decon 90® NOT TO BE USED for decontamination - Alconox® and Liquinox® soap may be used, if required Follow water-only decontamination approach. Is sufficient water available on-site for removing all debris by scrubbing with a plastic brush followed by thoroughly rinsing with tap water and triple rinsing with distilled and deionised water (Grade 3 or Millipore water)?		
Is all equipment that will come in contact with sampling media free of Teflon?		
Are soil and/or sediment core samples being collected directly from single-use PVC liners?		
Prior to sample collection have hands been washed with soap and thoroughly rinsed prior to donning a clean, new pair of disposable nitrile gloves?		
Has a new pair of disposable gloves been donned between each sampling location?		
Has additional hand washing been undertaken prior to donning a new pair of gloves when the old pair was compromised or if ungloved hands touched items that may represent potential PFAS contamination?		
Where waders are being worn for sample collected are they constructed of fabric that has not been treated with waterproofing coatings?		
Have surface water samples been collected by inserting a capped sampling container (polypropylene or HDPE) with the opening pointing down to avoid the collection of surface films?		
Where practicable, at the time of container opening, was the container more than 10cm from the sediment bed and more than 10cm below the surface water level and as close to the centre of the channel as possible?		
During surface water sample collection was the container pointed upstream up so that gloved hands, sample container, and sampler were downstream of the sample?		

PFAS Sampling Checklist Part 2

Other Considerations when Sampling for PFAS	Y/N or N/A	Comments
Has equipment rinsate water provided by the laboratory been confirmed to be free of PFAS and supplied in HDPE containers with polypropylene lids?		
Drinking Water Samples		
Has the analytical laboratory been consulted on the requirement for Trizma®, a buffering reagent that removes free chlorine from chlorinated drinking water, or similar sample additive, prior to collection of drinking water samples for analysis?		
Additional Considerations		
Has the exposure of samples to light during sample processing and storage been minmised?		
Carry our Shaker Test - A small portion of samples (~10-25 mL) should be shaken by the sample collector on-site. If foaming is noted within the sample, this should be documented when samples are submitted for analysis.		
It is noted that all support personnel that handle any equipment that directly contacts surface water or aquatic sediment, are within 2–3m of the borehole during soil sampling, or are within 2–3m of the collection and processing area on aquatic vessels during sediment or surface water sampling, are subject to the same restrictions related to precautionary measures for clothing and food, as applied to sampling personnel.		

Appendix B HydraSleeve™ Standard Operating Procedure

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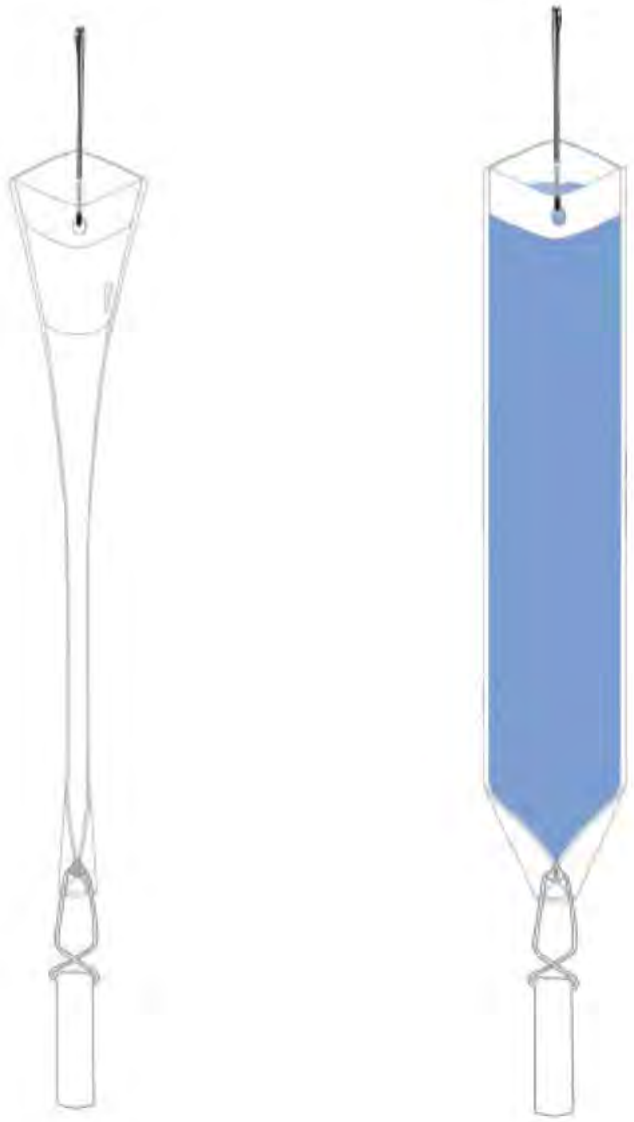
HYDRASleeve™

Simple by Design

US Patent No. 6,481,300; No. 6,837,120 others pending

Standard Operating Procedure: Sampling Groundwater with a HydraSleeve



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This guide should be used in addition to field manuals and instructions appropriate to the chosen sampling device (i.e., HydraSleeve, SpeedBag or Super/Skinny Sleeve and W3 HybridSleeve).

Find the appropriate field manual and instructions on the HydraSleeve website at http://www.hydrasleeve.com.

For more information about the HydraSleeve, or if you have questions, contact:
GeoInsight, P.O. Box 1266, Mesilla Park, NM 88047
800-996-2225, info@hydrasleeve.com.

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Introduction

The HydraSleeve is classified as a no-purge (passive) grab sampling device, meaning that it is used to collect groundwater samples directly from the screened interval of a well without having to purge the well prior to sample collection. When it is used as described in this Standard Operating Procedure (SOP), the HydraSleeve causes no drawdown in the well (until the sample is withdrawn from the water column) and only minimal disturbance of the water column, because it has a very thin cross section and it displaces very little water (<100 ml) during deployment in the well. The HydraSleeve collects a sample from within the screen only. It excludes water from any other part of the water column in the well through the use of a self-sealing check valve at the top of the sampler. It is a single-use (disposable) sampler that is not intended for reuse, so there are no decontamination requirements for the sampler itself.

The use of no-purge sampling as a means of collecting representative groundwater samples depends on the natural movement of groundwater (under ambient hydraulic head) from the formation adjacent to the well screen through the screen. Robin and Gillham (1987) demonstrated the existence of a dynamic equilibrium between the water in a formation and the water in a well screen installed in that formation, which results in formation-quality water being available in the well screen for sampling at all times. No-purge sampling devices like the HydraSleeve collect this formation-quality water as the sample, under undisturbed (non-pumping) natural flow conditions. Samples collected in this manner generally provide more conservative (i.e., higher concentration) values than samples collected using well-volume purging, and values equivalent to samples collected using low-flow purging and sampling (Parsons, 2005).

Applications of the HydraSleeve

The HydraSleeve can be used to collect representative samples of groundwater for all analytes (volatile organic compounds [VOCs], semi-volatile organic compounds [SVOCs], common metals, trace metals, major cations and anions, dissolved gases, total dissolved solids, radionuclides, pesticides, PCBs, explosive compounds, and all other analytical parameters). Designs are available to collect samples from wells from 1” inside diameter and larger. The HydraSleeve can collect samples from wells of any yield, but it is especially well-suited to collecting samples from low-yield wells, where other sampling methods can’t be used reliably because their use results in dewatering of the well screen and alteration of sample chemistry (McAlary and Barker, 1987).

The HydraSleeve can collect samples from wells of any depth, and it can be used for single-event sampling or long-term groundwater monitoring programs. Because of its thin cross section and flexible construction, it can be used in narrow, constricted or damaged wells where rigid sampling devices may not fit. Using multiple HydraSleeves deployed in series along a single suspension line or tether, it is also possible to conduct in-well vertical profiling in wells in which contaminant concentrations are thought to be stratified.

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As with all groundwater sampling devices, HydraSleeves should not be used to collect groundwater samples from wells in which separate (non-aqueous) phase hydrocarbons (i.e., gasoline, diesel fuel or jet fuel) are present because of the possibility of incorporating some of the separate-phase hydrocarbon into the sample.

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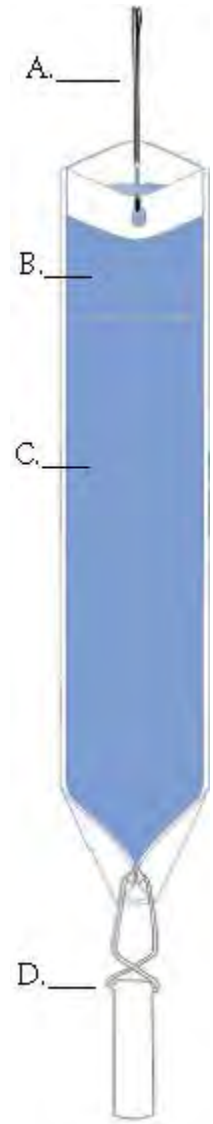
Description of the HydraSleeve

The basic HydraSleeve (Figure 1) consists of the following components*:

- A suspension line or tether (A.), attached to the spring clip or directly to the top of the sleeve to deploy the device into and recover the device from the well. Tethers with depth indicators marked in 1-foot intervals are available from the manufacturer.
- A long, flexible, 4-mil thick lay-flat polyethylene sample sleeve (C.) sealed at the bottom (this is the sample chamber), which comes in different sizes, as discussed below with a self-sealing reed-type flexible polyethylene check valve built into the top of the sleeve (B.) to prevent water from entering or exiting the sampler except during sample acquisition.
- A reusable stainless-steel weight with clip (D.), which is attached to the bottom of the sleeve to carry it down the well to its intended depth in the water column. Bottom weights available from the manufacturer are 0.75" OD and are available in a variety of sizes. An optional top weight may be attached to the top of the HydraSleeve to carry it to depth and to compress it at the bottom of the well (not shown in Figure 1);
- A discharge tube that is used to puncture the HydraSleeve after it is recovered from the well so the sample can be decanted into sample bottles (not shown).
- Just above the self-sealing check valve at the top of the sleeve are two holes which provide attachment points for the spring clip and/or suspension line or tether. At the bottom of the sample sleeve are two holes which provide attachment points for the weight clip and weight.



*Other configurations such as top weighted assemblies, Super/SkinnySleeves, Speedbags, and W3 Hybrids are available.

Note: The sample sleeve and the discharge tube are designed for one-time use and are disposable. The spring clip, weight and weight clip may be reused after thorough cleaning. Suspension cord is generally disposed after one use although, if it is dedicated to the well, it may be reused at the discretion of the sampling personnel.

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Selecting the HydraSleeve Size to Meet Site-Specific Sampling Objectives

It is important to understand that each HydraSleeve is able to collect a finite volume of sample because, after the HydraSleeve is deployed, you only get one chance to collect an undisturbed sample. Thus, the volume of sample required to meet your site-specific sampling and analytical requirements will dictate the size of HydraSleeve you need to meet these requirements.

Table 1. Dimensions and Volumes of HydraSleeve Models.

Diameter	Volume	Length	Lay-Flat Width	Filled Dia.
2-Inch HydraSleeves				
Standard 600 mls HydraSleeve	~600mls	30”	2.5”	1.4”
Standard 1-liter HydraSleeve	~1 Liter	38”	3”	1.9”
Super/SkinnySleeve 1-liter	~1 Liter	38”	2.5"	1.5”*
Super/SkinnySleeve 1.5-liter	~1.5 Liters	52”	2.5”	1.5”*
Super/SkinnySleeve 2-liter	*~2Liters*	*66"*	*2.5"*	*1.5"**
4-Inch HydraSleeves				
Standard 2.5 liter	~2 Liters	38”	4”	2.7”

* outside diameter on the Heavy Duty Universal Super/SkinnySleeves is 1.5" however when using with schedule 40 hardware the O.D. of the assembly will be 1.9"

It's also recommended that you size the diameter of the HydraSleeve according to the diameter of the well (i.e. use 2-inch HydraSleeves in 2-inch wells). Using smaller sleeves in larger diameter wells (i.e. 2-inch HydraSleeves in 4-inch wells) will result in a longer fill rate and will require special retrieval instructions (explained later).

The volume of sample collected by the HydraSleeve varies with the diameter and length of the HydraSleeve. Dimensions and volumes of available HydraSleeve models are detailed in Table 1.

HydraSleeves can be custom-fabricated by GeoInsight in varying diameters and lengths to meet specific volume requirements. HydraSleeves can also be deployed in series (i.e., multiple HydraSleeves attached to one tether) to collect additional sample to meet specific volume requirements, as described below.

If you have questions regarding the availability of sufficient volume of sample to satisfy laboratory requirements for analysis, it is recommended that you contact the laboratory to discuss the minimum volumes needed for each suite of analytes. Laboratories often require only 10% to 25% of the volume they specify to complete analysis for specific suites of analytes, so they can often work with much smaller sample volumes that can easily be supplied using a HydraSleeve.

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HydraSleeve Deployment

Information Required Before Deploying a HydraSleeve

Before installing a HydraSleeve in any well, you will need to know the following:

- The inside diameter of the well
- The length of the well screen
- The water level in the well
- The position of the well screen in the well
- The total depth of the well

The inside diameter of the well is used to determine the appropriate HydraSleeve diameter for use in the well. The other information is used to determine the proper placement of the HydraSleeve in the well to collect a representative sample from the screen (see HydraSleeve Placement, below), and to determine the appropriate length of tether to attach to the HydraSleeve to deploy it at the appropriate position in the well.

Most of this information (with the exception of the water level) should be available from the well log; if not, it will have to be collected by some other means. The inside diameter of the well can be measured at the top of the well casing, and the total depth of the well can be measured by sounding the bottom of the well with a weighted tape. The position and length of the well screen may have to be determined using a down-hole camera if a well log is not available. The water level in the well can be measured using any commonly available water-level gauge.

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HydraSleeve Placement

The HydraSleeve is designed to collect a sample directly from the well screen. It fills by pulling it up through the screen a distance equivalent to the length of the sampler when correctly sized to the well diameter. This upward motion causes the top check valve to open, which allows the device to fill. To optimize sample recovery, it is recommended that the HydraSleeve be placed in the well so that the bottom weight rests on the bottom of the well and the top of the HydraSleeve is as close to the bottom of the well screen as possible. This should allow the sampler to fill before the top of the device reaches the top of the screen as it is pulled up through the water column, and ensure that only water from the screen is collected as the sample. In short-screen wells, or wells with a short water column, it may be necessary to use a top-weight on the HydraSleeve to compress it in the bottom of the well so that, when it is recovered, it has room to fill before it reaches the top of the screen.

Example

2" ID PVC well, 50' total depth, 10' screen at the bottom of the well, with water level above the screen (the entire screen contains water).

Correct Placement (figure 2): Using a standard HydraSleeve for a 2" well (2.5" flat width/1.5" filled OD x 30" long, 600 ml volume), deploy the sampler so the weight (a 5 oz., 2.5" long weight with a 2" long clip) rests at the bottom of the well. The top of the sleeve is thus set at ~34" above the bottom of the well. When the sampler is recovered, it will be pulled upward approximately 30" before it is filled; therefore, it is full (and the top check valve closes) at approximately 64" (5.3 feet) above the bottom of the well, which is well before the sampler reaches the top of the screen. In this example, only water from the screen is collected as a sample.

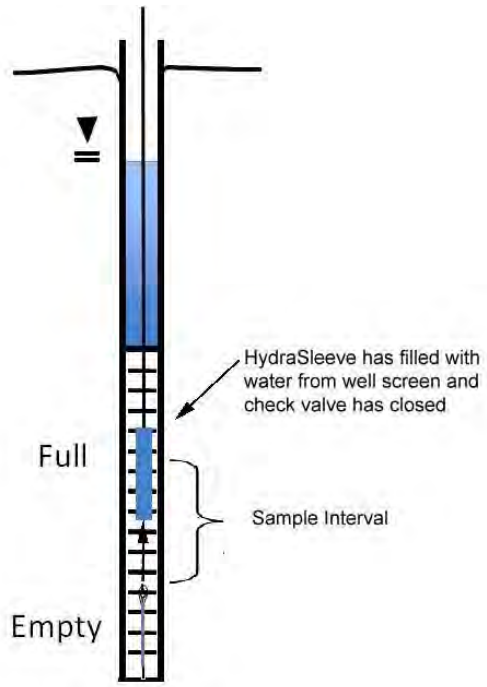

Figure 2. Correct Placement of HydraSleeve.

Incorrect Placement (figure 3): If the well screen in this example was only 5' long, and the HydraSleeve was placed as above, it would not fill before the top of the device reached the top of the well screen, so the sample would include water from above the screen, which may not have the same chemistry.

The solution? Deploy the HydraSleeve with a top weight, so that it is collapsed to within 6" of the bottom of the well. When the HydraSleeve is recovered, it will fill within 36" (3 feet) from the bottom of the well, or 2-feet before the sampler reaches the top of the screen, so it collects only water from the screen as the sample.

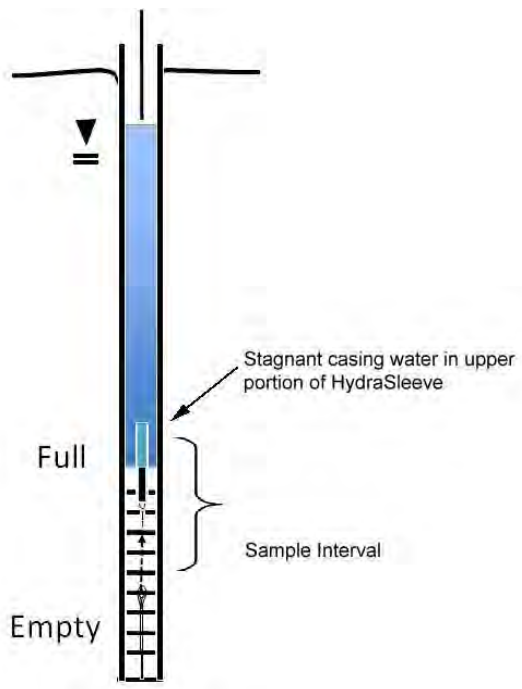

Figure 3. Incorrect placement of HydraSleeve.

This example illustrates one of many types of HydraSleeve placements. More complex placements are discussed in a later section.

NOTE: Using smaller diameter HydraSleeves (2-inch) in larger diameter wells (4-inch) causes a slower fill rate. Special retrieval methods are necessary if this is your set up (shown later in this document).

Procedures for Sampling with the HydraSleeve

Collecting a groundwater sample with a HydraSleeve is usually a simple one-person operation.

Note: Before deploying the HydraSleeve in the well, collect the depth-to-water measurement that you will use to determine the preferred position of the HydraSleeve in the well. This measurement may also be used with measurements from other wells to create a groundwater contour map. If necessary, also measure the depth to the bottom of the well to verify actual well depth to confirm your decision on placement of the HydraSleeve in the water column.

Measure the correct amount of tether needed to suspend the HydraSleeve in the well so that the weight will rest on the bottom of the well (or at your preferred position in the well). Make sure to account for the need to leave a few feet of tether at the top of the well to allow recovery of the sleeve.

Note: Always wear sterile gloves when handling and discharging the HydraSleeve.

I. Assembling the Basic HydraSleeve*

1. Remove the HydraSleeve from its packaging, unfold it, and hold it by its top.
2. Crimp the top of the HydraSleeve by folding the hard polyethylene reinforcing strips at the holes.
3. Attach the spring clip to the holes to ensure that the top will remain open until the sampler is retrieved.
4. Attach the tether to the spring clip by tying a knot in the tether.

Note: Alternatively, if spring clips are not being utilized, attach the tether to one (NOT both) of the holes at the top of the Hydrasleeve by tying a knot in the tether.

5. Fold the flaps with the two holes at the bottom of the HydraSleeve together to align the holes and slide the weight clip through the holes.
6. Attach a weight to the bottom of the weight clip to ensure that the HydraSleeve will descend to the bottom of the well.

*See Super/SkinnySleeve assembly manual and HydraSleeve Field Manual for other assembly instructions.

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II. Deploying the HydraSleeve

1. Using the tether, carefully lower the HydraSleeve to the bottom of the well, or to your preferred depth in the water column

   During installation, hydrostatic pressure in the water column will keep the self-sealing check valve at the top of the HydraSleeve closed, and ensure that it retains its flat, empty profile for an indefinite period prior to recovery.

Note: Make sure that it is not pulled upward at any time during its descent. If the HydraSleeve is pulled upward at a rate greater than 0.5'/second at any time prior to recovery, the top check valve will open and water will enter the HydraSleeve prematurely.

2. Secure the tether at the top of the well by placing the well cap on the top of the well casing and over the tether.

Note: Alternatively, you can tie the tether to a hook on the bottom of the well cap (you will need to leave a few inches of slack in the line to avoid pulling the sampler up as the cap is removed at the next sampling event).

III. Equilibrating the Well

The equilibration time is the time it takes for conditions in the water column (primarily flow dynamics and contaminant distribution) to restabilize after vertical mixing occurs (caused by installation of a sampling device in the well).

- Situation: The HydraSleeve is deployed for the first time or for only one time in a well

  The basic HydraSleeve is very thin in cross section and displaces very little water (<100 ml) during deployment so, unlike most other sampling devices, it does not disturb the water column to the point at which long equilibration times are necessary to ensure recovery of a representative sample.

  In some cases, like when useing the SpeedBags, the HydraSleeve can be recovered immediately (with no equilibration time) or within a few hours. In regulatory jurisdictions that impose specific requirements for equilibration times prior to recovery of no-purge sampling devices, these requirements should be followed.

  NOTE: If using top weights additional equilibration time is needed to allow the top weight time to compress the HydraSleeve into the bottom of the well.

- Situation: The HydraSleeve is being deployed for recovery during a future sampling event.

  In periodic (i.e., quarterly, semi-annual, or annual) sampling programs, the sampler for the current sampling event can be recovered and a new sampler (for the next sampling event) deployed immediately thereafter, so the new sampler remains in the well until the next sampling event.

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Thus, a long equilibration time is ensured and, at the next sampling event, the sampler can be recovered immediately. This means that separate mobilizations, to deploy and then to recover the sampler, are not required. HydraSleeves can be left in a well for an indefinite period of time without concern.

IV. HydraSleeve Recovery and Sample Collection

1. Hold on to the tether while removing the well cap.
2. Secure the tether at the top of the well while maintaining tension on the tether (but without pulling the tether upwards)
3. Measure the water level in the well.
4. Use one of the following 3 retrieval methods. In all 3 scenarios, when the HydraSleeve is full, the top check valve will close. You should begin to feel the weight of the HydraSleeve on the tether and it will begin to displace water. The closed check valve prevents loss of sample and entry of water from zones above the well screen as the HydraSleeve is recovered.

   a. In one smooth motion, pull the tether up 30"-60" (the length of the sampler) at a rate of about 1 foot per second (or faster). The motion will open the top check valve and allow the HydraSleeve to fill (it should fill in about 1:1 ratio or the length of the HydraSleeve if the sleeve is sized to fit the well). This is analogous to coring the water column in the well from the bottom up.

   b. There are times it is recommended that the HydraSleeve be oscillated in the screen zone to ensure it is full before leaving the screen area. Pull up 1-3 feet, let the sleeve assembly drop back down and repeat 3-5 times before pulling the sleeve to the surface. The collection zone will be the oscillation zone. ***When in doubt use this retrieval method.***

   c. SpeedBags require check valve activation and oscillation during recovery: When retrieving the SpeedBag, pull up hard 1-2 feet to open the check valve; let the assembly drop back down to the starting point; REPEAT THIS PROCESS 4 TIMES; and then quickly recover the SpeedBag through the well sceen to the surface.

5. Continue pulling the tether upward until the HydraSleeve is at the top of the well.
6. Discard the small volume of water trapped in the Hydrasleeve above the check valve by pinching it off at the top under the stiffeners (above the check valve).

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v. Sample Discharge

NOTE: Sample collection should be done immediately after the HydraSleeve has been brought to the surface to preserve sample integrity.

Be sure you have discarded the water sitting above the check valve – see step #6 above.

1. Remove the discharge tube from its sleeve.
2. Hold the HydraSleeve at the check valve
3. Puncture the HydraSleeve at least 3-4 inches below the reinforcement strips with the pointed end of the discharge tube. NOTE: For some contaminants (VOC's/sinkers) the best location for discharge is the middle to bottom of the sampler. This would be representative of the deeper portion of the well screen.
4. Discharge water from the HydraSleeve into your sample containers. Control the discharge from the HydraSleeve by either raising the bottom of the sleeve, by squeezing it like a tube of toothpaste, or both.
5. Continue filling sample containers until all are full.

Measurement of Field Indicator Parameters

Field indicator parameter measurement is generally done during well purging and sampling to confirm when parameters are stable and sampling can begin. Because no-purge sampling does not require purging, field indicator parameter measurement is not necessary for the purpose of confirming when purging is complete.

If field indicator parameter measurement is required to meet a specific non-purging regulatory requirement, it can be done by taking measurements from water within a HydraSleeve that is not used for collecting a sample to submit for laboratory analysis (i.e., a second HydraSleeve installed in conjunction with the primary sample collection HydraSleeve [see Multiple Sampler Deployment below]).

Alternate Deployment Strategies

Deployment in Wells with Limited Water Columns

For wells in which only a limited water column needs to be sampled, the HydraSleeve can be deployed with an optional top weight in addition to a bottom weight. The top weight will collapse the HydraSleeve to a very short (approximately 6" to 24") length, depending on the length and volume of the sampler. This allows the HydraSleeve to fill in a water column only 3' to 10' in height (again) depending on the sampler size. Note the SuperSleeves accomplish the same thing but provide greater sample volume at a lower per sample cost.

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Multiple Sampler Deployment

Multiple sampler deployment in a single well screen can accomplish two purposes:

1. It can collect additional sample volume to satisfy site or laboratory-specific sample volume requirements.
2. It can be used to collect samples from multiple intervals in the screen to allow identification of possible contaminant stratification.

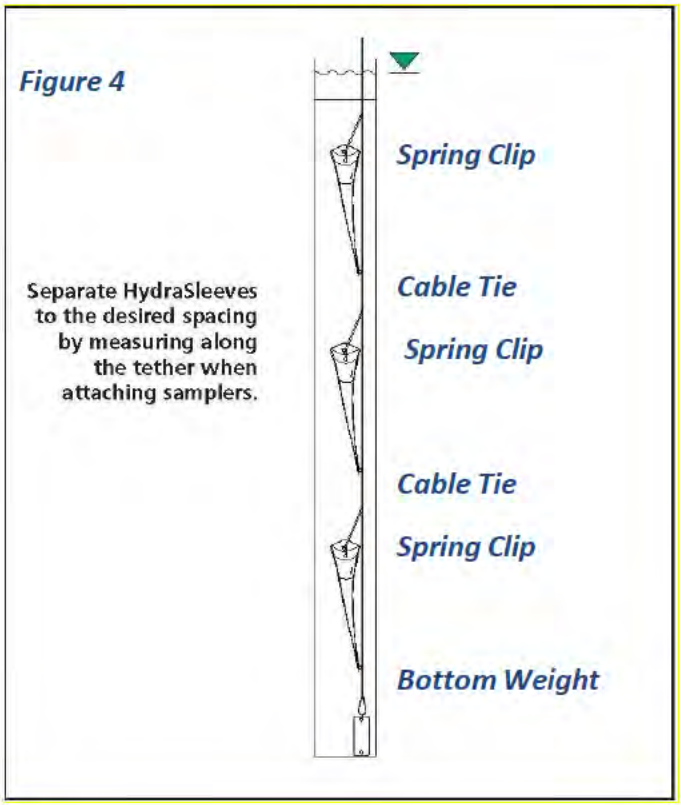

Figure 5. Multiple HydraSleeve deployment

If there is a need for only 2 samplers, they can be installed as follows. The first sampler can be attached to the tether as described above, a second attached to the bottom of the first using your desired length of tether between the two and the weight attached to the bottom of the second sampler (figure 6). This method can only be used with 2 samplers; 3 or more HydraSleeves in tandem need to be attached as described above.

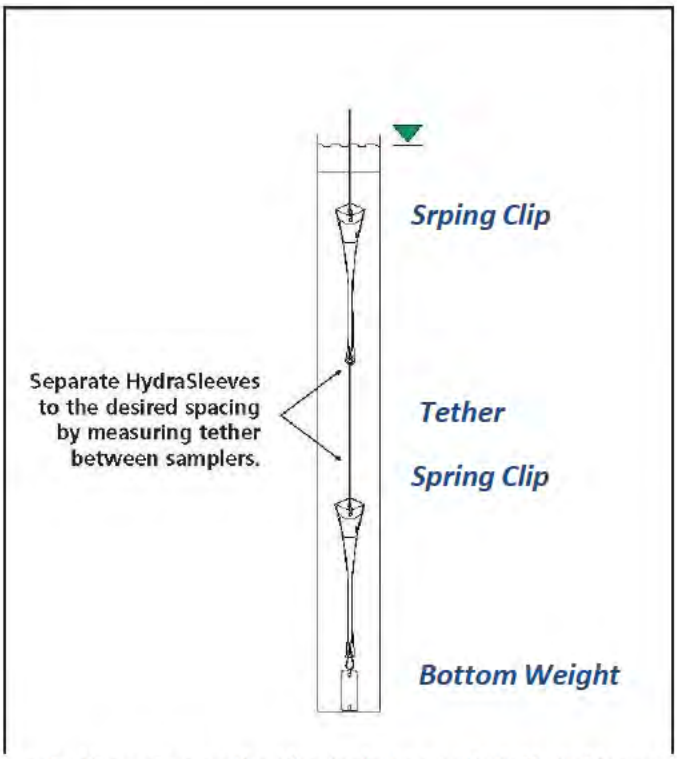

Figure 5. Alternative method for deploying multiple HydraSleeves.

In either case, when attaching multiple HydraSleeves in series, more weight will be required to hold the samplers in place in the well than would be required with a single sampler. Recovery of multiple samplers and collection of samples is done in the same manner as for single sampler deployments.

Post-Sampling Activities

The recovered HydraSleeve and the sample discharge tubing should be disposed as per the solid waste management plan for the site. To prepare for the next sampling event, a new HydraSleeve can be deployed in the well (as described previously) and left in the well until the next sampling event, at which time it can be recovered.

The weight and weight clip can be reused on this sampler after they have been thoroughly cleaned as per the site equipment decontamination plan. The tether may be dedicated to the well and reused or discarded at the discretion of sampling personnel.

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Appendix C Water Volume Length in Monitoring Wells Previously Sampled

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OMP Groundwater Monitoring Network Details

Well ID	Target Aquifer	Approximate Hydraulic Conductivity (m/day) 1	Well Screen (mbgl) 2	Well Depth (mbgl) 2	Bore Depth (mTOC) - Last Gauged 3	SWL (mTOC) - Last Gauged 3	Water Colum (m) - Last Gauged 3	SWL (mTOC) - Oct 2023 4	Hydrasleeve Deployment Depth (mTOC) - Oct 2023 4
MW009	Shepparton and Coonambigdal Fluvium - Intermediate Aquifer	20	8.6-11.6	11.6	9.30	7.463	1.837	6.934	11.0
MW012	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.2-10.2	10.2	10.54	8.342	2.198	7.724	7.3
MW016	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.8-9.8	9.8	10.78	7.541	3.239	7.072	9.0
MW018	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.3-9.3	9.3	10.54	6.965	3.575	6.432	9.4
MW020	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	5.5-8.5	8.5	7.00	6.897	0.103	7.670	*Sampled by bailer*
MW029	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.0-10.0	10.0	11.06	8.183	2.877	7.696	9.0
MW034	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.0-10.0	10.0	11.27	8.095	3.175	7.670	9.0
MW035	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.2-10.2	10.2	11.25	7.646	3.604	7.214	9.0
MW042	Shepparton and Coonambigdal Fluvium - Intermediate Aquifer	20	15.0-17.0	17.0	12.83	7.955	4.875	7.474	16.0
MW043	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	9.8-12.3	12.3	12.83	7.874	4.956	7.390	11.3
MW046_D	Shepparton and Coonambigdal Fluvium - Deep Aquifer	Undefined - likely >1.80	18.0-21.0	21.0	22.40	8.745	13.655	8.062	20.0
MW046_I	Shepparton and Coonambigdal Fluvium - Intermediate Aquifer	20	11.0-13.4	13.4	14.07	7.950	6.120	7.512	13.0
MW051	Shepparton Colluvium - Shallow Aquifer	0.05	28.2-31.2	31.2	30.50	24.285	6.215	24.283	30.0
MW052	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	Undefined - likely >1.80	6.1-11.1	11.1	9.78	8.345	1.435	7.573	10.0
MW056	Perched Water	0.05	*Unknown*	*Unknown*	3.68	2.255	1.420	*Not sampled*	*Not sampled*
MW302	Shepparton Colluvium - Shallow Aquifer	0.05	18.0-21.0	21.0	20.77	18.160	2.610	*Not sampled*	*Not sampled*
MW303	Shepparton Colluvium - Shallow Aquifer	0.05	21.0-24.0	24.0	22.86	20.760	2.100	*Not sampled*	*Not sampled*
MW304	Shepparton Colluvium - Shallow Aquifer	0.05	18.0-21.0	21.0	22.00	15.797	6.203	15.757	20.0
MW305	Shepparton Colluvium - Shallow Aquifer	0.05	18.0-21.0	21.0	21.95	20.820	1.130	*Not sampled*	*Not sampled*
MW307	Shepparton Colluvium - Shallow Aquifer	0.05	23.5-26.5	26.5	27.81	19.770	8.038	19.705	26.3
MW311	Shepparton Colluvium - Shallow Aquifer	0.05	19.0-22.0	22.0	22.94	20.340	2.600	20.451	21.9
MW312	Shepparton Colluvium - Shallow Aquifer	0.05	14.0-17.0	17.0	17.67	11.363	6.307	11.175	16.6
MW313	Shepparton Colluvium - Shallow Aquifer	0.05	31.0-34.0	34.0	34.20	30.100	4.100	*Data Lost*	33.0
MW315	Shepparton Colluvium - Shallow Aquifer	0.05	39.0-41.0	41.0	43.30	41.402	1.898	*Dry*	*Dry*
MW317	Shepparton Colluvium - Shallow Aquifer	0.05	34.0-38.0	38.0	40.00	37.885	2.115	*Dry*	*Dry*
MW318	Shepparton Colluvium - Shallow Aquifer	0.05	37.0-40.0	40.0	42.13	*Dry*	*Dry*	*Dry*	*Dry*
MW319	Shepparton Colluvium - Shallow Aquifer	0.05	38.0-41.0	41.0	43.00	35.174	7.826	35.120	41.0
MW321	Shepparton Colluvium - Shallow Aquifer	0.05	35.0-38.0	38.0	40.00	36.285	3.715	36.401	38.0
MW323	Shepparton Colluvium - Shallow Aquifer	0.05	19.0-22.0	22.0	23.00	19.455	3.545	19.396	21.8
MW329	Shepparton Colluvium - Shallow Aquifer	0.05	16.0-19.0	19.0	20.00	15.050	4.950	14.750	18.6
MW342	Shepparton Colluvium - Shallow Aquifer	0.05	13.0-17.0	17.0	17.40	13.272	4.128	13.144	16.5
MW343	Shepparton Colluvium - Shallow Aquifer	0.05	8.0-11.0	11.0	11.96	9.280	2.680	*Not sampled*	*Not sampled*
MW344	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	8.0-11.0	11.0	11.95	4.800	7.150	*Not sampled*	*Not sampled*
MW345	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	4.0-7.0	7.0	5.57	5.321	0.249	3.884	5.4
MW346	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	8.91	3.429	5.481	1.916	8.8
MW350_D	Shepparton and Coonambigdal Fluvium - Deep Aquifer	Undefined - likely >1.80	17.5-19.5	19.5	20.55	8.395	12.155	7.695	19.0
MW350_S	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.5-9.5	9.5	10.00	8.437	1.563	7.735	9.0
MW351	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	5.0-8.0	8.0	8.94	6.120	2.820	5.401	7.8
MW352	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	9.83	5.831	3.999	5.283	8.8
MW353	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	7.90	7.600	0.300	7.101	7.7
MW354	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.0-10.0	10.0	11.07	7.455	3.615	6.886	9.0
MW356	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	1.0-3.0	3.0	3.82	2.439	1.381	1.313	9.2 5
MW357	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	2.5-5.5	5.5	5.24	3.319	1.921	2.174	5.0
MW360	Shepparton Colluvium - Shallow Aquifer	0.05	10.7-12.7	12.7	12.91	8.030	4.880	7.509	11.0
MW361	Shepparton Colluvium - Shallow Aquifer	0.05	3.5-6.5	6.5	6.34	2.200	4.140	1.772	4.0
MW403	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.0-10.0	10.0	9.89	7.155	2.735	6.515	9.0
MW404	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	7.0-10.0	10.0	10.18	7.040	3.140	6.382	9.0
MW411	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	9.70	6.481	3.220	*Not sampled*	*Not sampled*
MW412	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	1.5-4.5	4.5	5.32	0.803	4.518	*Not sampled*	*Not sampled*
MW413	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	10.05	6.781	3.269	*Not sampled*	*Not sampled*
MW414	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	1.5-4.5	4.5	5.23	0.768	4.464	*Not sampled*	*Not sampled*
MW415	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	9.71	6.474	3.231	*Not sampled*	*Not sampled*
MW416	Shepparton Colluvium - Shallow Aquifer	0.05	25.5-30.0	30.0	30.00	23.515	6.485	23.497	29.0
MW447	Shepparton and Coonambigdal Fluvium - Shallow Aquifer	1.81	6.0-9.0	9.0	7.75	4.080	3.670	*Not sampled*	*Not sampled*

Notes:

1: Hydraulic conductivity values for each aquifer were calculated as part of the PFAS Mass Flux Study, and are presented here as an indication of estimated flow rate. It is noted that the hydraulic conductivity has not previously been determined for the Shepparton and Coonambigdal Fluvium - Deep Aquifer, however an indication of the flow rate has been provided based on the sandy nature of this layer.

2: Well screen and depth as per installation logs or Defence Esdat Database

3: Measurement are based on data from the April 2024 OMP, the 2022 DSI Addendum data, the 2018 Golder DSI data, and March 2025 gauging of MW447.

4: Measurement as per the October 2023 OMP (HydraSleeve deployment depth information not recorded in April 2024 OMP Factual Report)

5: Given this measurement is significantly deeper than the well installation depth, it is considered to be a reporting error.

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Appendix D OMP Groundwater Well Details

Table D.1: OMP Groundwater Well Details

Well ID	Top of Casing (TOC) (mAHD)	Well Depth (mbgl)	Well Screen (mbgl)	Aquifer Unit
South Bandiana				
MW051	187.950	31.2	28.2-31.2	Shepparton Colluvium - Shallow
MW056[1]	183.590	3.7	*Unknown*	Perched Water
MW304	176.131	21.0	18.0-21.0	Shepparton Colluvium - Shallow
MW305	177.794	22.0	19.0-22.0	Shepparton Colluvium - Shallow
MW307	181.086	26.5	23.5-26.5	Shepparton Colluvium - Shallow
MW311	182.452	22.0	19.0-22.0	Shepparton Colluvium - Shallow
MW312	175.841	17.0	14.0-17.0	Shepparton Colluvium - Shallow
MW315	204.875	41.0	39.0-41.0	Shepparton Colluvium - Shallow
MW317	204.364	38.0	34.0-38.0	Shepparton Colluvium - Shallow
MW318	205.965	40.0	37.0-40.0	Shepparton Colluvium - Shallow
MW319	199.524	41.0	38.0-41.0	Shepparton Colluvium - Shallow
MW321	200.815	38.0	35.0-38.0	Shepparton Colluvium - Shallow
MW323	184.472	22.0	19.0-22.0	Shepparton Colluvium - Shallow
MW328	189.747	42.0	39.0-42.0	Shepparton Colluvium - Shallow
MW329	181.435	19.0	16.0-19.0	Shepparton Colluvium - Shallow
MW416	187.720	30.0	25.5-30.0	Shepparton Colluvium - Shallow
North Bandiana				
MW342	180.605	17.0	13.0-17.0	Shepparton Colluvium - Shallow
MW343	175.705	12.0	9.0-12.0	Shepparton Colluvium - Shallow
MW344	171.282	12.0	9.0-12.0	Shepparton and Coonambidgal Fluvium - Shallow
MW345	168.316	7.0	4.0-7.0	Shepparton and Coonambidgal Fluvium - Shallow
MW346	166.944	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
East Bandiana				
MW009	166.280	11.6	8.6-11.6	Shepparton and Coonambidgal Fluvium - Intermediate
MW012	167.360	10.2	7.2-10.2	Shepparton and Coonambidgal Fluvium - Shallow
MW016	166.160	9.8	6.8-9.8	Shepparton and Coonambidgal Fluvium - Shallow
MW018	165.430	9.3	6.3-9.3	Shepparton and Coonambidgal Fluvium - Shallow
MW020	165.410	8.5	5.5-8.5	Shepparton and Coonambidgal Fluvium - Shallow
MW029	168.110	10.0	7.0-10.0	Shepparton and Coonambidgal Fluvium - Shallow
MW034	166.630	10.0	7.0-10.0	Shepparton and Coonambidgal Fluvium - Shallow
MW035	166.220	10.2	7.2-10.2	Shepparton and Coonambidgal Fluvium - Shallow
MW042	166.620	17.0	15.0-17.0	Shepparton and Coonambidgal Fluvium - Intermediate
MW043	166.550	12.3	9.8-12.3	Shepparton and Coonambidgal Fluvium - Shallow
MW046_D	166.490	21.0	18.0-21.0	Shepparton and Coonambidgal Fluvium - Deep
MW046_I	166.480	13.4	11.0-13.4	Shepparton and Coonambidgal Fluvium - Intermediate

MW052	168.490	11.1	6.1-11.1	Shepparton and Coonambidgal Fluvium - Shallow
MW350_D	168.229	19.5	17.5-19.5	Shepparton and Coonambidgal Fluvium - Deep
MW350_S	168.233	9.5	6.5-9.5	Shepparton and Coonambidgal Fluvium - Shallow
MW351	164.790	8.0	5.0-8.0	Shepparton and Coonambidgal Fluvium - Shallow
MW352	164.493	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
MW353	166.625	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
MW354	166.625	10.0	7.0-10.0	Shepparton and Coonambidgal Fluvium - Shallow
MW403	166.926	10.0	7.0-10.0	Shepparton and Coonambidgal Fluvium - Shallow
MW404	166.617	10.0	7.0-10.0	Shepparton and Coonambidgal Fluvium - Shallow
Off-base				
MW302	173.881	20.8	17.8-20.8	Shepparton Colluvium - Shallow
MW303	176.823	23.4	20.4-23.4	Shepparton Colluvium - Shallow
MW313	193.128	34.0	31.0-34.0	Shepparton Colluvium - Shallow
MW356	156.882	3.0	1.0-3.0	Shepparton and Coonambidgal Fluvium - Shallow
MW357	156.243	5.5	2.5-5.5	Shepparton and Coonambidgal Fluvium - Shallow
MW360	164.890	12.7	10.7-12.7	Shepparton Colluvium - Shallow
MW361	153.716	6.5	3.5-6.5	Shepparton Colluvium - Shallow
MW411	164.81	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
MW412	158.705	4.5	1.5-4.5	Shepparton and Coonambidgal Fluvium - Shallow
MW413	165.375	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
MW414	157.72	4.5	1.5-4.5	Shepparton and Coonambidgal Fluvium - Shallow
MW415	165.19	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow
MW447	164.537	9.0	6.0-9.0	Shepparton and Coonambidgal Fluvium - Shallow

Notes:

1. A groundwater log and well installation information from the Defence Esdat database for MW056 is not available. Well depth obtained from OMP field records.
2. mAHD = Metres Australian Height Datum.

Appendix E OMP Sampling Event Report – May 2025

Bandiana Military Area – PFAS OMP Sampling Event Report – May 2025

Department of Defence

Report

JBS&G | 61395 | 168,748

20 August 2025

JBS&G

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

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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Appendix B **Analytical Results Tables**

Appendix C **Physical Parameter Results Tables**

Appendix D **Data Quality Assessment**

Appendix E **Equipment Calibration Records**

Appendix F **Laboratory Certificates and Chain of Custody**

Appendix G **Water Quality Parameter Descriptions**

Abbreviations

Term	Definition
AFFF	Aqueous film forming foam
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended in 2013)
AS/NZS	Australian/New Zealand Standards
CSM	Conceptual Site Model
CSR	Contaminated Sites Record
DCMM	Defence Contamination Management Manual
Defence	Department of Defence
DO	Dissolved Oxygen
DQI	Data Quality Indicator
EC	Electrical Conductivity
EPA	Environment Protection Authority Victoria
HHERA	Human Health an Ecological Risk Assessment
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
NATA	National Association of Testing Authorities
NEMP	Heads of EPAs Australia and New Zealand (HEPA), PFAS National Environmental Management Plan – Version 2; January 2020
NHMRC	National Health and Medical Research Council
NSW	New South Wales
OMP	Ongoing Monitoring Plan
OMR	Ongoing Monitoring Report
ORP	Oxidation reduction potential
PFAS	Per- and poly-fluoroalkyl substances
PFBS	Perfluorobutanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
pH	Potential of hydrogen
PMAP	PFAS Area Management Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
SAQP	Sampling, Analysis and Quality Plan
SER	Sampling Event Report
SWL	Standing Water Level
USEPA	United States Environment Protection Authority
WA DER	Western Australia Department of Water and Environmental Regulation

Measurements

Term	Definition
°C	Degrees Celsius
cm	Centimetres
m	Metres
m AHD	Metres Australian Height Datum
mbgl	Metres below ground level
mBTOC	Metres below top of case
mg/L	Milligrams per litre
mm	Millimetres
mV	Millivolts
µg/L	Micrograms per Liter
µS/cm	Microsiemens Per Centimetre

1. Introduction

1.1 Background

JBS&G Australia (JBS&G) was engaged by the Department of Defence (Defence) to conduct ongoing monitoring on and around the Bandiana Military Area, Victoria (the base) as part of the per- and poly-fluoroalkyl substances (PFAS) Management Area Plan (PMAP) Delivery Services. These works are part of a National Defence program to understand the nature, extent and potential risks of PFAS contamination resulting from the historical use of aqueous film forming foam (AFFF) on and adjacent identified Defence properties across Australia.

Ongoing monitoring, conducted as part of the Ongoing Monitoring Plan (OMP), is an important aspect of managing PFAS contamination, to understand changes in the nature and extent of contamination. The findings are used to inform whether risks to receptors have changed, and whether a change in management approach may be required. This investigation was completed under the 2025 OMP (Defence 2025).

The base, that is the subject of this report, is located adjacent the New South Wales (NSW) – Victorian State border southeast of Wodonga, Victoria. The location of the base and wider Management Area is shown in **Appendix A, Figure 1.**

This report documents the observations, information and data collected during the May 2025 sampling event in the Management Area in accordance with the OMP and the Sampling and Analysis Quality Plan (SAQP) (JBS&G 2025).

1.2 Objectives

The objective of the OMP program was to monitor PFAS concentrations and their extent in surface water and groundwater in the Management Area. The findings of the OMP program will support risk management decisions by Defence and the Victorian Government to protect human health and the environment.

The objectives of the monitoring specified in the OMP are to:

- Evaluate changes in risk from PFAS in surface water and groundwater associated with base sources of PFAS;
- Monitor the migration of PFAS in surface water and groundwater from the base;
- Evaluate the nature and extent of PFAS impact in surface water and groundwater;
- Provide confirmation of the current understanding of risks from PFAS within surface water and groundwater; and
- Where relevant, provide supporting data for assessment of PFAS management actions.

2. Scope of Work

2.1 Summary of work undertaken

All works completed as part of this sampling event report (SER) were completed in accordance with the OMP SAQP (JBS&G 2025). Any deviations from the proposed scope have been listed in **Section 3**. The scope which was completed is as follows:

- Organise fieldworks and obtain permission to access all monitoring locations;
- Gauging of groundwater monitoring locations;
- Collection of groundwater samples and field parameters;
- Collection of surface water samples and field parameters;
- Analysis of samples by accredited laboratories (as per **Section 2.3**);
- Data management of the OMP field and laboratory data in Defence ESdat database; and
- Preparation of this SER.

2.2 Sampling locations

2.2.1 Groundwater

A total of 10 groundwater samples were collected across the Management Area as part of the OMP. Sampling locations and respective catchments are listed in the following **Table 2.1** and are shown in **Appendix A, Figure 2**. As outlined in the OMP SAQP (JBS&G, 2025), this OMP monitoring event only sampled the bi-annual groundwater monitoring locations consisting of off-base locations.

Table 2.1: OMP Groundwater Locations and Catchments

Catchment	Total No.	OMP Groundwater Locations
Off-base Locations		
Jack in the Box Creek	2	MW360, MW361
Kiewa River	8	MW356, MW357, MW411, MW412, MW414, MW415, MW447, OTH019

Multiple geological units are present across the base and the Management Area. In general, groundwater wells within the Jack in the Box Creek catchment, on the western side of the Management Area, are within the Shepparton Colluvium, while wells within the Kiewa River catchment, on the eastern side of the Management Area, are within the Shepparton Fluvium and Coonambidgal Fluvium. **Table 2.2** divides the OMP wells into their respective aquifers.

It is noted that OTH019 is groundwater sampled from a private bore off-base. The well however is not accessed during OMP sampling events (rather extracted groundwater is sampled from a tap which is understood to be connected to an above ground storage tank) and the construction details of the well are unknown. As such, this sample location has not been assigned an aquifer and has not been shown in **Table 2.2**.

Table 2.2: OMP Groundwater Monitoring Locations and Aquifers

Geological Unit	Aquifer Interval	Aquifer Depth	Total No.	OMP Wells
Shepparton Colluvium	Shallow 'S'	Variable, based on position in Management Area. Identified between approximately 5.0 and 42 metre below ground level (mbgl)	2	MW360, MW361
Shepparton Fluvium and Coonambidgal Fluvium	Shallow 'S'	5.0-10.0 mbgl	7	MW356, MW357, MW411, MW412, MW414, MW415, MW447

2.2.2 Surface water

A total of 38 surface water locations were sampled across the Management Area as part of the OMP. Sampling locations and respective catchments are listed in the following **Table 2.3** and are shown in **Appendix A, Figure 3A/B.**

Table 2.3: OMP Surface Water Locations and Catchments

Catchment	Total No.	OMP Surface Water Locations
On-base Locations		
Jack in the Box Creek Catchment	9	SW316, SW323, SW324, SW326, SW332, SW336, SW333, SW338, SW448
Kiewa River Catchment	9	SW346, SW349, SW355, SW370, SW374, SW375, SW382, SW387, SW388
Off-base Locations		
Jack in the Box Creek Catchment	6	SW424, SW427, SW430, SW431, SW432, SW434
Kiewa River Catchment	14	SW390, SW393, SW395, SW397, SW398, SW400, SW401, SW404, SW409, SW412, SW416, SW462, SW470, SW487

2.3 Sample Analysis

All water samples were submitted to the following National Association of Testing Authorities (NATA) accredited laboratories for analysis in accordance with **Table 2.4:**

- Eurofins Melbourne (NATA accreditation number 1261); and
- Envirolab Melbourne (NATA accreditation number 2901).

Table 2.4: Sample analytical schedule

No. primary samples	Analysis	Method	Limit of Reporting (LOR)
45	Extended PFAS analytical suite	LC/MS-MS	0.001 – 0.1 µg/L
3[1]	Extended PFAS analytical suite – Trace Level	LC/MS-MS	0.001 – 0.01 µg/L

Note:

1. Locations that trace analysis occurred include OTH019, SW416 and SW390.

All methods are in general accordance with the Defence Guidance Document E, Standard PFAS Analytical Suite (Revision 4, 1 October 2021).

Trace level analysis was adopted for three groundwater and surface water locations following consultation and agreement with Defence. The three locations are where a groundwater bore is a 'point of use' or surface water concentrations up and down gradient of the base in the Kiewa River, which could influence the North East Water drinking water extraction point on Wodonga Creek. The lower analysis was adopted for this sampling event in response to National Health and Medical Research Council (NHMRC) releasing draft health-

based drinking water guideline values which propose lower PFAS criteria than is currently adopted. This was applicable at the time of writing the SAQP (JBS&G 2025) noting these guidelines have now been finalised (see **Section 5** for further details) and adopted as part of this SER.

3. Deviations from the SAQP/OMP

Deviations are not uncommon for reasons of weather conditions, access and safety concerns that inhibit the ability to collect some samples at particular locations. The following **Table 3.1** provides a summary of these concerns during the sampling event, which were beyond JBS&G's control, and a summary of the impact on the program.

Table 3.1: Deviations from OMP SAQP Summary

Identified Deviation	Impact on OMP Program
The following surface water locations could not be sampled as they were dry: SW302, SW307, SW310, SW311, SW313, SW321, SW322, SW340, SW379, SW380, SW396, SW403, SW405, SW463 and SW471.	It is noted in the OMP SAQP (JBS&G 2025) that the on-base drains and surface water channels are ephemeral and only have flow during or immediately following rainfall. The locations which were not able to be sampled are located primary in the western portion of South Bandiana, around Source Area 13 on East Bandiana and several oxbows in the Kiewa River floodplain. While additional data from these locations would assist identify trends, the PFAS conditions are well understood in these areas based on previous investigations, particularly the Mass Flux Study (JBS&G 2024). This deviation is not considered to impact the objective of the OMP.
One monitoring well, MW413, was damaged and could not be sampled.	Adjacent locations MW414, MW415 and MW411 which target the same aquifer were all able to be sampled during the event. This deviation is not considered to impact the objective of the OMP.

Overall, the deviations from the OMP SAQP (JBS&G 2025) are not considered to affect the data obtained as part of the program. The data set generated as part of this sampling event has assisted in monitoring changes in PFAS concentrations at the base and across the Management Area.

4. Sampling Methodology

4.1 Groundwater Sampling Methodology

Groundwater sampling was undertaken as per the details in **Table 4.1.** Groundwater gauging and sampling was completed between 12 and 14 May 2025.

Table 4.1: Groundwater Sampling Methodology

Activity	Details
Well gauging	Prior to sampling, groundwater levels were gauged with an interface probe and measured against a specific mark at the top of the well casing, to assess standing water levels (SWLs). As part of gauging, the well water column was measured, which determined the sampling method: > 1.0 m was sampled via HydraSleeve™, while < 1.0 m was sampled via bailer. It is noted that all wells were sampled by HydraSleeve™.
HydraSleeve™ deployment	New HydraSleeves™ were deployed to approximately 10 cm above the base of wells or accumulated sediment layer and left for a minimum of 24 hours. The HydraSleeves™ were double weighted to ensure correct positioning.
HydraSleeve™ sample retrieval	The groundwater sample was collected by pulling the HydraSleeve™ up through the water column and to the surface at a rate of approximately 30 cm per second. The recovered water sample was decanted into the appropriate laboratory supplied sample bottles.
Field parameters	Groundwater field parameters were obtained ex situ, using water remaining in the HydraSleeves™ following sampling. Field measurements recorded comprised the following: temperature, electrical conductivity (EC), dissolved oxygen (DO), oxidation-reduction potential (ORP) and pH.

4.2 Surface Water Sampling Methodology

Surface water sampling was undertaken as per the details in **Table 4.2.** Surface water sampling was completed across two separate mobilisations, first between 13-15 May 2025 and second between 27-29 May 2025.

Table 4.2: Surface Water Sampling Methodology

Activity	Details
Surface water sampling	Surface water samples were collected directly into the laboratory supplied sample container. At each sample location a new sample container was lowered into the water at least 10 cm below the surface (where possible), with the opening facing down to avoid collection of surface films. The cap was applied immediately once the sample container was full. Where surface water was difficult to access, the sample container was attached to the telescopic pole, which was lowered into the water body. The telescopic pole was attached so that the telescopic pole was not in direct contact with the opening of the sample container. During sampling, features such as discolouration, staining, odours and other indications of contamination were noted. Field observations such as flow, turbidity, presence of suspended solids and odours, sheen, oily film, floating debris or frothing were recorded on field sampling sheets. The condition of the water body from which the sample was obtained included a record of the water body type, qualitative flow speed (e.g. stagnant, gentle flow, high flow) and channel width, was also recorded.
Field parameters	Surface water field parameters were obtained at the time of sampling. Field measurements recorded comprised the following: temperature, EC, DO, ORP and pH.

4.3 Common Sampling Methodology

During both surface water and groundwater sampling, decontamination and a Quality Assurance/Quality Control (QA/QC) program was implemented. The methodology for both of these activities is presented in **Table 4.1.**

Table 4.3: Common Sampling Methodology

Activity	Details
Decontamination	All reusable monitoring equipment (e.g. interface probe) was cleaned using PFAS-free detergent and PFAS-free deionised water supplied by the analytical laboratory.
Quality Assurance/Quality Control (QA/QC)	The QA/QC program was conducted as per the SAQP (JBS&G 2025). The program included sampling as follows: • Field duplicate (inter-laboratory) samples at 1 per 10 primary samples; • Field triplicate (intra-laboratory) samples at 1 per 10 primary samples; • Rinsate blank samples as one per day, collected from reusable equipment (e.g. interface probe); • Field blank samples collected at a rate of one per day (groundwater and surface water); and • Trip blank samples submitted at a rate of one per laboratory batch (groundwater and surface water).

5. Screening Criteria

As per the SAQP (JBS&G 2025), the analytical data was screened against relevant Tier 1 Guidance Values as outlined in the ASC NEPM (NEPC 2013) and PFAS NEMP (HEPA 2025) to identify if the base risk profile has changed compared to the current risk profile.

The adopted Tier 1 screening criteria for the relevant environmental values are provided in the following **Table 5.1**. It should be noted that surface water interacts with groundwater in off-base areas. As such, from a screening perspective, the applicable groundwater criteria were also applied to surface water for the purposes of this assessment.

At the time of writing the SAQP (JBS&G 2025), the NHMRC had released draft health-based drinking water guideline values for public consultation. As such, Defence were considering how the draft guidelines, if adopted, may affect its PFAS Investigation and Management Program, and communities surrounding the Defence Estate. The initial step to this was the adoption of a lower laboratory limit of reporting at select locations to understand any future implications (see **Section 2.3**). At the time of the writing of this SER, the NHMRC had finalised the health-based drinking water guidance values, which have been incorporated into the Tier 1 screening criteria (see **Table 5.1** below).

Table 5.1: Tier 1 Screening Criteria for Water

Adopted Tier 1 Screening Criteria	Relevant Environmental Value	PFOS/PFHxS	PFOS	PFHxS	PFOA	PFBS
Freshwater: High conservation/ecological value systems (99% species protection)	Water Dependent Ecosystems and Species	0.00023 µg/L	-	-	19 µg/L	-
Freshwater: Slightly to moderately disturbed systems (95% species protection)		0.13 µg/L	-	-	220 µg/L	-
Drinking water	Traditional Owner Cultural Values, Agriculture and Irrigation (Irrigation and stock watering)	-	0.008 µg/L	0.03 µg/L	0.2 µg/L	1.0 µg/L
Recreational water	Water-based Recreation (Primary Contact Recreation, Secondary Contact, Aesthetic Enjoyment)	2 µg/L	-	-	10 µg/L	-

Note:

- PFOS – perfluorooctanesulfonic acid, PFHxS – perfluorohexanesulfonic acid, PFOA – perfluorooctanoic acid, and PFBS – perfluorobutane sulfonic acid.

HEPA 2025 has adopted trigger values or species protection levels for toxicants, which provide guidance for assessment of aquatic ecosystems. Percent species protection levels range from 80% (highly disturbed systems) to 99% (largely unmodified systems). The water bodies on and surrounding the base range in ecosystem disturbance and modification, and as such different protection levels apply. The following is a general guide and justification for adopted species protection based on water feature:

- **On-base constructed stormwater channels, swales or pipework:** No species protection, as protection of environmental values in artificial stormwater drains is not a requirement;
- **On-base stormwater pond, dam or depression**: 95% species protection adopted as vegetation is generally present in and around the moderately to highly modified feature which supports a freshwater ecosystem; and

- **On and off-base water bodies (i.e. rivers, creeks, lakes and wetlands)**: 99% species protection adopted.

In accordance with the SAQP (JBS&G 2025) and for the purposes of this assessment, all results have been compared to 99% species protection as all waters samples have the potential to migrate into on and off-base creeks, lakes, wetlands and retention basins, and the NEMP recommends the adoption of this criteria owing to bioaccumulation and biomagnification in wildlife. The screening criteria for 95% species protection have been provided for reference regarding on-base stormwater ponds, dams or depressions.

In the absence of a published guideline value for irrigation and stock watering, the drinking water values have been considered as an initial screening value, as is consistent with the Human Health an Ecological Risk Assessment (HHERA) (Golder 2020).

No criteria have been adopted for the environmental values Potable Mineral Water Supply, Industrial and Commercial and Geothermal Properties, as these uses are considered unlikely to be realised within the Management Area. No criteria have been adopted for the environmental value Buildings and Structures as no PFAS criteria have been developed for this scenario and not known to affect the integrity of structures.

6. Summary of Data Reliability Assessment

The field and lab QA/QC program including Data Quality Indicators (DQIs) are presented within the SAQP (JBS&G 2025). The data reliability assessment, provided in **Appendix D,** concluded that the field data and analytical results are representative of conditions in the Management Area and the dataset is adequately reliable for the objective of this SER.

The project target for data reliability was 95% compliance with the DQIs. Based on available field and laboratory QA/QC data, 99% compliance was achieved.

All data collected during this event has been reviewed and uploaded to the Defence ESdat database in accordance with Annex L of the Defence Contamination Management Manual (DCMM) (Defence 2021).

7. Field Parameters and Observations

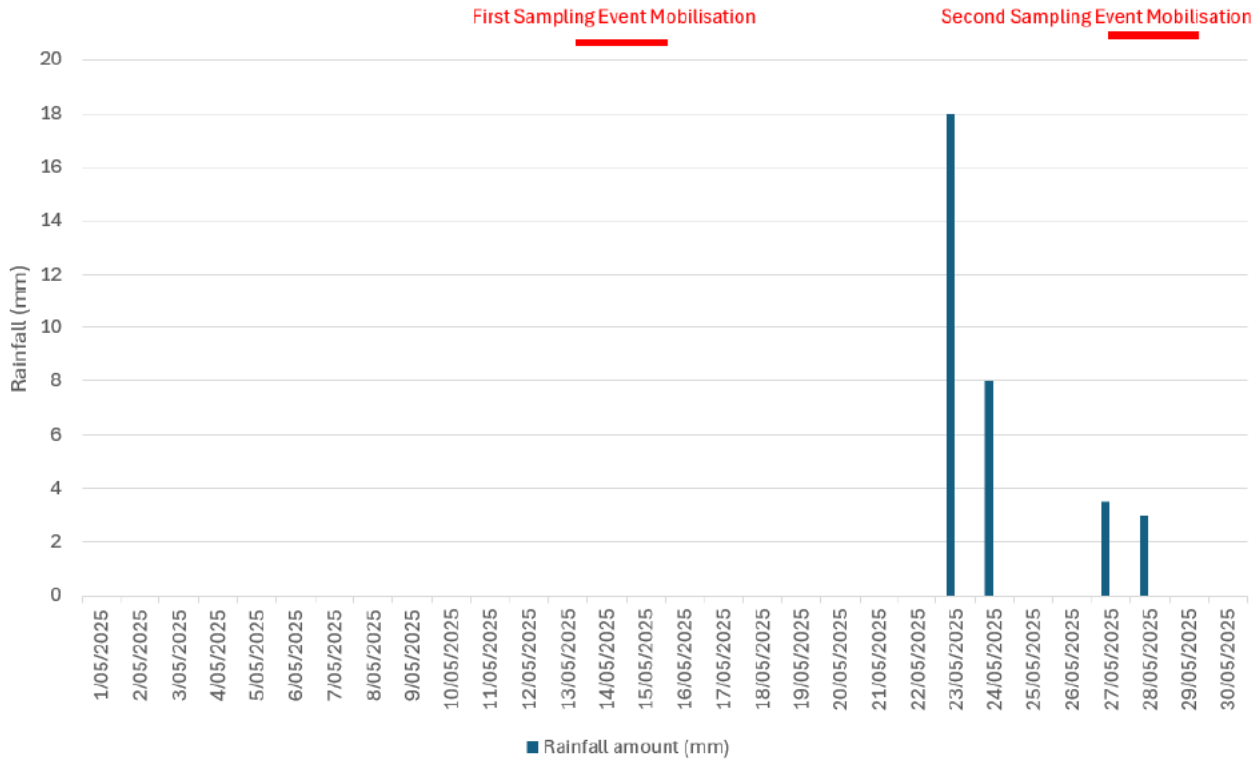
The following sections detail the rainfall, groundwater and surface water monitoring data collected during the sampling event.

7.1 Weather Conditions

The 2025 OMP (Defence 2025) recommends that OMP surface water sampling is completed after a reasonable rain event (i.e. 35 mm of rain over a 4-day period) if possible, as many of the water bodies targeted by the OMP are ephemeral.

During the May 2025 sampling event (13 to 29 May 2025) a total of 32.5 mm of rain was recorded at the nearest weather station in Wodonga (weather station 082056). The monthly rainfall for May 2025 (32.5 mm) was below the historical mean of 64.1 mm (based on 1898 to 2025 data) (Bureau of Meteorology (BOM) 2025).

A summary of rainfall from the start of May through to the end of the sampling event monitoring period (29 May 2025) has been illustrated in **Graph 1** below.



Graph 1: May 2025 Rainfall at Wodonga (Weather Station 082056)

During the sampling event, 21 surface water samples were collected between 13 and 15 May which occurred during dry conditions. These locations however targeted the larger and more permanent water bodies including rivers, creeks, lakes and oxbows which are less susceptible to rainfall. Following the significant rain events between 23-24 May, 17 additional surface water locations had sufficient water present and were able to be sample.

Based on the rainfall identified during the sampling period, this sampling event fell just short of the 'reasonable rain event' definition (i.e. 35 mm of rain over a 4-day period) as identified in the OMP (Defence 2025), however it is noted that this type of event was not recorded in either April or June. 15 surface water samples were unable to be sampled during this monitoring event.

7.2 Groundwater

7.2.1 Access and Condition of Groundwater Monitoring Wells

The groundwater monitoring well network was accessible during the sampling event. No issues with groundwater monitoring well integrity were identified with the exception of MW413, the monument for which had been knocked over compromising the integrity of the well. MW413 will be repaired prior to the next OMP monitoring event.

7.2.2 Groundwater Field Parameters

Groundwater field parameters are presented in **Table C2, Appendix C**. The field parameters were recorded ex-situ with remaining groundwater from the HydraSleeve™ following sampling. A summary of the field parameters has been presented in **Table 7.1.** A guide to the parameter descriptions has been provided in **Appendix G.**

Table 7.1: Groundwater Field Parameters Summary

Unit	Parameter	Minimum	Maximum	Comment
Shepparton Colluvium (2 wells)	DO (mg/L)	1.22	2.46	Hypoxic to poor aerobic
	EC (µs/cm)	978.00	1,284.00	Freshwater
	ORP (mV)	-47.50	-2.20	Reducing
	Temperature (°C)	19.50	21.30	-
	pH (-)	5.61	7.18	Slightly acidic to neutral
Shepparton and Coonambidgal Fluvium – Shallow Aquifer (7 wells)	DO (mg/L)	0.89	3.84	Hypoxic to poor aerobic
	EC (µs/cm)	55.71	419.5	Freshwater
	ORP (mV)	-61.80	394.9	Reducing to oxidising
	Temperature (°C)	16.60	19.70	-
	pH (-)	5.61	6.43	Acidic
Shepparton and Coonambidgal Fluvium# (OTH019)	DO (mg/L)	3.47		Poor aerobic
	EC (µs/cm)	307.80		Freshwater
	ORP (mV)	137.1		Moderately oxidising
	Temperature (°C)	19.20		-
	pH (-)	5.96		Acidic

Note:

- #: Construction details of OTH019 groundwater well are unknown, and as such has not been assigned an aquifer depth.

7.2.3 Groundwater Field Observations

No odours were observed during groundwater sampling.

The following visual observations were made during groundwater sampling:

- Groundwater samples displayed varied levels of turbidity during sampling. MW447, MW360, MW414 and OTH019 all were observed to be clear, while MW361, MW356, MW357, MW411, MW412, MW415 and MW417 were observed to be cloudy during sampling;
- The colour of groundwater samples ranged from clear to light brown and orange;
- No foaming was observed at any groundwater sampling during a 'shake test';
- No sheen or other visual indications of contamination were observed in any of the groundwater samples; and

- Minor sediment within the HydraSleeves™ were identified in 6 monitoring wells, including MW356, MW357, MW361, MW411, MW412 and MW415.

It is noted that groundwater pH was slightly more acidic during the May 2025 sampling event compared to previous OMP sampling events, with the difference usually recorded at less than 0.5 units. Equipment calibration was completed satisfactorily during sampling round and is not considered contributory. It is noted that the pH sensor has an accuracy of +/- 0.2 units, which may be a factor in the difference, with natural variance potentially contributing the balance.

7.3 Surface Water

7.3.1 Surface Water Monitoring Access

All surface water monitoring locations which contained water were accessible during the sampling event.

7.3.2 Surface Water Field Parameters

Surface water field parameters are presented in **Table C3, Appendix C.** The field parameters were recorded in situ at the time of sampling. A summary of the field parameters has been presented in **Table 7.2.** A guide to the parameter descriptions has been provided in **Appendix G.**

Table 7.2: Surface Water Field Parameters Summary

Water Body	Parameter	Minimum	Maximum	Comment
Jack in the Box Creek (6 locations)	DO (mg/L)	0.58	8.52	Hypoxic to excellent aerobic
	EC (µs/cm)	60.6	187.4	Freshwater
	ORP (mV)	-150.6	50.4	Reducing to moderately oxidising
	Temperature (°C)	11.3	18.0	–
	pH (-)	5.90	6.73	Slightly acidic to neutral
Kiewa River (4 locations)	DO (mg/L)	8.26	9.31	Excellent aerobic
	EC (µs/cm)	29.4	40.8	Freshwater
	ORP (mV)	20.6	132.9	Moderately oxidising
	Temperature (°C)	11.3	13.6	–
	pH (-)	6.59	7.39	Neutral
Middle Creek (SW393)	DO (mg/L)	8.72		Excellent aerobic
	EC (µs/cm)	255.7		Freshwater
	ORP (mV)	89.2		Moderately oxidising
	Temperature (°C)	10.4		–
	pH (-)	6.53		Slightly acidic
Kiewa River Floodplain Oxbow (7 locations)	DO (mg/L)	2.89	8.58	Poor to excellent aerobic
	EC (µs/cm)	47.3	456.6	Freshwater
	ORP (mV)	24.7	136.7	Moderately oxidising
	Temperature (°C)	9.6	18.1	–
	pH (-)	6.34	7.77	Slightly acidic to neutral
Ornamental Pond	DO (mg/L)	3.22	5.30	Poor to good aerobic
	EC (µs/cm)	79.0	115.4	Freshwater
	ORP (mV)	154.4	175.8	Moderately oxidising
	Temperature (°C)	13.2	14.5	–

Water Body	Parameter	Minimum	Maximum	Comment
(SW346, SW349, SW355)	pH (-)	6.71	6.92	Neutral
Unnamed Creek (SW409, SW462)	DO (mg/L)	4.12	7.90	Poor to good aerobic
	EC (µs/cm)	114.4	121.7	Freshwater
	ORP (mV)	14.9	174.5	Moderately oxidising
	Temperature (°C)	11.2	13.5	–
	pH (-)	6.27	6.61	Slightly acidic to neutral
Dam (4 locations)	DO (mg/L)	5.38	10.16	Good to excellent aerobic
	EC (µs/cm)	27.2	97.9	Freshwater
	ORP (mV)	50.0	175.8	Moderately oxidising
	Temperature (°C)	10.6	17.8	-
	pH (-)	6.31	8.77	Slightly acidic to slightly alkaline
Drain (11 locations)	DO (mg/L)	3.09	9.27	Poor aerobic to excellent aerobic
	EC (µs/cm)	31.4	325.2	Freshwater
	ORP (mV)	41.5	141.1	Moderately oxidising
	Temperature (°C)	10.3	18.2	-
	pH (-)	6.06	7.11	Acidic to neutral

7.3.3 Surface Water Field Observations

Flow conditions in the surface water body were recorded as follows:

- Stagnant (24 locations);
- Gentle flow (11 locations); and
- Moderate flow (3 locations).

The sampling of flowing water is the preference during the OMP as it is considered generally more representative of PFAS concentrations within a water body. It is acknowledged however that many waterbodies such as dams, ponds and oxbows do not exhibit flow and inherently have 'stagnant' flow conditions. The sampling of stagnant conditions from these water bodies is consistent with water flow observations from previous sampling events, and consists of 13 of the 24 locations identified above. The 'stagnant' flow which was identified in the other water bodies was a likely result of dry conditions across the base and Management Area, and consist of the following locations: SW316, SW324, SW370, SW374, SW387, SW388, SW393, SW409, SW430, SW431 and SW448.

Table 7.3 Summary of Olfactory and Visual Observations

Olfactory/Visual	Description	Surface sampling location	Surface water body
Olfactory	Organic odour	SW400, SW401	Oxbow
	Musty odour	SW487	On-base drainage channel
		SW430	Jack in the Box Creek
		SW387, SW397	Oxbow
	Eucalyptus odour	SW393	Middle Creek
		SW434	Jack in the Box Creek
		SW409	Unnamed Creek

Olfactory/Visual	Description	Surface sampling location	Surface water body
Visual	Organics present	SW316	On-base drainage channel
	Foaming	SW336, SW338, SW382	Dam
		SW427	Jack in the Box Creek
		SW332, SW448	On-base drainage channel
		SW346, SW349, SW355	Ornamental Pond
		SW395, SW412	Oxbow

Other visual observations during surface water sampling included:

- Three quarters of surface water samples had no or low turbidity. The remaining samples reported moderate turbidity with one surface water sample recording a very high turbidity (SW395);
- The colour of surface water samples ranged from clear (11 samples) to light brown (13 samples), brown (5), yellow (slightly yellow to milky yellow in 7 samples), light grey (1 sample, SW430) or white (1 sample, SW427);
- In two samples, SW387 and SW395, suspended solids were observed;
- No foaming was observed at any surface water sampling during a 'shake test'; and
- Foaming was observed at several water bodies during sampling, however, based on the analytical results, is not considered likely to be the result of the presence of AFFF or PFAS. Locations include SW332, SW336, SW338, SW346, SW349, SW355, SW382, SW412, SW427 and SW448.

It is noted that surface water pH was slightly more acidic during the May 2025 sampling event compared to previous OMP sampling events, with the difference usually recorded at less than 0.5 units. Equipment calibration was completed satisfactorily during sampling round and is not considered contributory. It is noted that the pH sensor has an accuracy of +/- 0.2 units, which may be a factor in the difference, with natural variance potentially contributing the balance.

8. Results

8.1 Groundwater elevations and inferred flow direction

Groundwater gauging data has been presented in **Table C1**, **Appendix C.** Groundwater contours for the shallow Shepparton and Coonambidgal Fluvium, including groundwater elevations, are provided as **Appendix A, Figure 4**. Groundwater contours for the shallow Shepparton Colluvium aquifer have not been calculated, owing to the limited number of wells (i.e. <3) being sampled in the aquifer.

SWLs are measured in the field as metres below top of casing (mBTOC) and are later converted into a relative level to determine groundwater flow directions.

Groundwater elevations in the shallow Shepparton and Coonambidgal Fluvium ranged between 152.734 and 160.081 metres Australian Height Datum (mAHD). The groundwater flow direction was inferred to be to the east towards the Kiewa River, consistent with previous rounds of groundwater monitoring.

While contours for the shallow Shepparton Colluvium aquifer could not be calculated, based on the SWLs of the two wells, groundwater flow appeared consistent with previous rounds, towards the north west.

8.2 Analytical results

8.2.1 Groundwater analytical results

Groundwater analytical results for the May 2025 sampling event have been presented in **Table B1**, **Appendix B**, with PFOS results plotted in **Appendix A, Figure 5**. The groundwater analytical results have been compared against the adopted screening criteria, in summary:

- Concentrations of PFOS in 5 out of 10 samples (50%) exceeded the Freshwater (95% species protection) screening criterion of 0.13 µg/L. Nine samples (90%) exceeded the Freshwater (99% species protection) and Drinking water screening criterion of 0.00023 µg/L and 0.008 µg/L respectively, noting that these screening criteria for PFOS are below the LOR used for this investigation and as such it is unknown whether the non-detect concentration exceed this criteria. Two samples (MW412 and MW415) (20%) exceeded the Recreational Water criterion of 2 µg/L;
- Concentrations of PFHxS in 8 out of 10 samples (90%) exceeded the Drinking Water screening criterion of 0.03 µg/L. One sample (MW415) (10%) exceeded the Recreational Water criterion of 2 µg/L;
- Concentrations of PFOA in 1 (MW415) out of 10 samples (10%) exceeded the Drinking Water screening criterion of 0.2 µg/L;
- No criterion exceedances were identified for PFBS; and
- Concentrations of Sum of PFOS+PFHxS in 3 (MW412, MW414 and MW415) out of 10 samples (30%) exceeded the Recreational Water criterion of 2 µg/L.

No notable deviations between groundwater analytical results reported for the May 2025 sampling event and available historical data were identified. One minor increase in PFAS concentrations from the previous OMP sampling round in November/December 2024 was identified at OTH019. The increase from 0.313 µg/L of Sum of PFOS+PFHxS to 0.36 µg/L is only considered minor (i.e. not orders of magnitude changes). A full review and discussion of the above identified increases in the context of the overall dataset and Conceptual Site Model (CSM) will be provided in the Ongoing Monitoring Report (OMR) for the 2025 period.

8.2.2 Surface Water Analytical Results

Surface water analytical results for the May 2025 sampling event have been presented in **Table B2**, **Appendix B**, with PFOS results plotted in **Appendix A, Figure 6A/B.** The surface water analytical results have been compared against the adopted screening criteria, in summary:

- Concentrations of PFOS in 15 out of 38 samples (39%) exceeded the Freshwater (95% species protection) screening criterion of 0.13 µg/L. 32 samples (84%) exceeded the Freshwater (99% species protection) and Drinking water screening criterion of 0.00023 µg/L and 0.008 µg/L respectively, noting that the screening criteria for PFOS is below the LOR used for most samples during this investigation and as such it is unknown whether the non-detect concentration exceed this criteria. 17 samples (44%) exceeded the Drinking Water criterion of 0.008 µg/L. 3 samples (SW336, SW397 and SW487) (8%) exceeded the Recreational Water criterion of 2 µg/L;
- Concentrations of PFHxS in 18 out of 38 samples (37%) exceeded the Drinking Water criterion of 0.03 µg/L. 3 samples (8%) exceeded the Recreational Water Criterion of 2 µg/L;
- Concentrations of PFOA in 3 out of 38 samples (8%) exceeded the Drinking Water criterion of 0.2 µg/L;
- No criterion exceedances were identified for PFBS; and
- Concentrations of Sum of PFHxS and PFOS in 4 out of 38 samples (10%) exceeded the Recreational Water criterion of 2 µg/L.

The following **Table 8.1** presents a summary of notable deviations between surface water analytical results reported for the May 2025 sampling event and available historical data.

Table 8.1: Summary of Deviation from Historical Surface Water Data

Sample Location	May 2025 Sum of PFOS+PFHxS	Historical Sum of PFOS+PFHxS Range	Comment
SW336	21.9 µg/L	5.93 – 16.8 µg/L	Located within Source Area 6. The water level within the Fire Training Area dam was observed to be lower than in previous sampling rounds which may have concentrated PFAS within the available water, resulting in higher concentrations. The low water level is likely the result of low rainfall during the previous months, coming off the back of dry summer months. This dam is in a closed system and the water will not be released to the stormwater system.
SW333	3.0 µg/L	0.13 – 1.77 µg/L	Located in the Closed Training Area. It is noted that road-regrading and drainage cleaning works occurred in the Closed Training Area prior to sampling which may have disturbed PFAS affected sediments within this area, resulting in a higher concentration. It is acknowledged that the water that was sampled at SW333 was not turbid (which would be indicative of sediment disturbance), however it is understood the road works used sediment controls, and SW333 is located approximately 100 m from the works area along a vegetated swale which may have assisted in removing sediment. Down-gradient locations were noted as being within historical ranges.
SW326	0.08 µg/L	0.43 – 10.1 µg/L	Located in the Closed Training Area. It is noted that road-regrading and drainage cleaning works occurred in the Closed Training Area prior to sampling which may have removed PFAS affected sediments within this area, resulting in a lower concentration. Down-gradient locations were noted as being within historical ranges.

Increases in PFAS concentrations from the previous OMP sampling round in November/December 2024 have been identified at several other surface water sampling locations including the following:

- On-base: SW336, SW338, SW346, SW374, SW382, SW388, SW448 and SW316;
- Off-base: SW395, SW409, SW412, SW470 and SW487.

The increases identified in the dot points above (i.e. excluding those listed in **Table 8.1**), are only considered minor (i.e. not orders of magnitude changes) and are within historic ranges. A full review and discussion of the above identified increases in the context of the overall dataset and CSM will be provided in the OMR for the 2025 period.

9. Conclusions

The May 2025 sampling event was completed in general accordance with the SAQP (JBS&G 2025) and the OMP (Defence 2025). The observations, information and data collected as part of the sampling event have been documented in this SER and key findings have been summarised in the table below.

A full review and discussion of the results obtained as part of this SER in the context of the overall dataset and CSM will be provided in the OMR for the 2025 period.

Table 9.1: Summary of May 2025 Sampling Event

Aspect	Detail	Recommended Action
SAQP	This OMP round was completed in general accordance with the SAQP (JBS&G 2025) with the exception of the deviations beyond JBS&G's control (discussed in **Section 3**), including: • One monitoring well (MW413) was damaged and could not be sampled; and • 15 surface water monitoring locations could not be sampled as they were found dry during both mobilisations.	All reasonable effort will be made to complete the next sampling event in general accordance with the prepared SAQP. MW413 will be repaired and redeveloped prior to the next sampling event.
Screening criteria	The screening criteria identified in **Section 5** were adopted in consideration of current guidance.	The screening criteria in the SAQP for the next OMP sampling event will require review in light of recent guideline updates.
Groundwater gauging	The groundwater flow directions inferred from groundwater gauging data were consistent with previous monitoring rounds.	Groundwater locations will be gauged again during the next scheduled sampling event to continue monitoring of the groundwater flow direction as per OMP.
Groundwater sampling program	A total of 10 primary groundwater samples were collected. Concentrations of PFOS, PFHxS, PFOA, PFBS and sum of PFOS+PFHxS were generally consistent with previous monitoring rounds.	Groundwater locations will be sampled again during the next scheduled sampling event to continue monitoring of the groundwater PFAS concentrations as per OMP.
Surface water sampling program	A total of 38 primary surface water samples were collected. Concentrations of PFOS, PFHxS, PFOA, PFBS and sum of PFOS+PFHxS were generally consistent with previous monitoring rounds, with the exception of SW336, SW333 and SW326, which had results different to the historic range. These results were considered likely to be attributable to reduced water levels in the water body or drainage works which disturbance PFAS affected soil/sediment in the area nearby the surface water locations.	Surface water locations will be sampled again during the next scheduled sampling event to continue monitoring of the surface water PFAS concentrations as per OMP.
Next scheduled event	The next OMP event is scheduled for October 2025.	Nil

10. References

10.1 Previous Investigation Reports

Bandiana Military Area, PFAS Management Area Plan. Document Number 1777738-153-R-RevA. Department of Defence. November 2020. (Defence 2020);

Bandiana Military Area, PFAS Ongoing Monitoring Plan. Department of Defence. March 2025 (Defence 2025);

Human Health and Ecological Risk Assessment, Bandiana Military Area. Document Number 1777738-150-R-RevB. Golder Associates Pty Ltd. November 2020 (Golder 2020);

PFAS Mass Flux Study – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/153,765 – Rev 0. JBS&G Australia Pty Ltd. 1 November 2024 (JBS&G 2024); and

Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP). Document number 61395/163,009 – Rev1. JBS&G Australia Pty Ltd. 02 April 2025. (JBS&G 2025).

10.2 Standards and Guidelines

Water Quality Guidelines. Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ). 2000. (ANZECC and ARMCANZ 2000);

Australian and New Zealand Guidelines for Fresh and Marine Water Quality. 2018. (ANZG 2018);

AS 4482.1-2005, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soils, Part 1 - Non-volatile and Semi-volatile Compounds (withdrawn as pending revision, referred to for 'state of knowledge'). (AS 2005);

Australian/New Zealand Standard AS/NZS 5667.6:1998 Water Quality – Sampling, Part 6: Guidance on Sampling Rivers and Streams. (AS/NZS 1998);

Daily Rainfall – Wodonga. Retrieved from http://www.bom.gov.au/jsp/ncc/cdio/weatherData/av?p_nccObsCode=136&p_display_type=dailyDataFile&p_startYear=&p_c=&p_stn_num=082056 on 19 June 2025. (Bureau of Meteorology 2025);

Ongoing Monitoring Program Reporting Guidance, dated 29 February 2024. (Defence 2024);

Pollution Prevention Management Manual – Annex 1L: Pollution Prevention Guidance – Routine Water Quality Monitoring. (Defence 2019);

Defence Contamination Management Manual (DCMM), Annex L – Data Management, August 2019, Amended June 2021. (Defence 2021);

Groundwater Sampling Guidelines, Publication 669.1, February 2022. (EPA 2022);

Sampling and Analysis of Waters, Wastewaters, Soils and Wastes, Publication 701, June 2009. (EPA 2009);

PFAS National Environmental Management Plan (NEMP) Version 3.0, March 2025. (HEPA 2025);

National Environmental Protection (Assessment of Site Contamination) Measure (1999, as amended 2013) (ASC NEPM). (NEPC 2013);

Guidance on Per and Polyfluoroalkyl Substances (PFAS) in Recreational Water, August 2019. (NHMRC 2019);

Drinking Water Guidelines, June 2025. (NHMRC 2025);

Sampling Design Part 1 – Application, Contaminated Land Guidelines. August 2022. (NSW EPA 2022a);

Sampling Design Part 2 – Interpretation, Contaminated Land Guidelines. August 2022. (NSW EPA 2022b);

Guidance for the Data Quality Objectives Process (EPA QA/G-4). (USEPA 2006);

Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8). (USEPA 2002); and

Interim Guideline on the Assessment and Management of Perfluoroalkyl and Polyfluoroalkyl Substances, WA DER. (WA DER, 2017).

11. Limitations

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

Appendix A Figures

Figures included are as follows:

- Figure 1: Site Location Plan;
- Figure 2: OMP Groundwater Sample Locations;
- Figure 3A/B: OMP Surface Water Sample Locations;
- Figure 4: May 2025 OMP Groundwater Contours;
- Figure 5: Groundwater PFOS Results Summary (May 2025); and
- Figure 6A/B: Surface Water PFOS Results Summary (May 2025).

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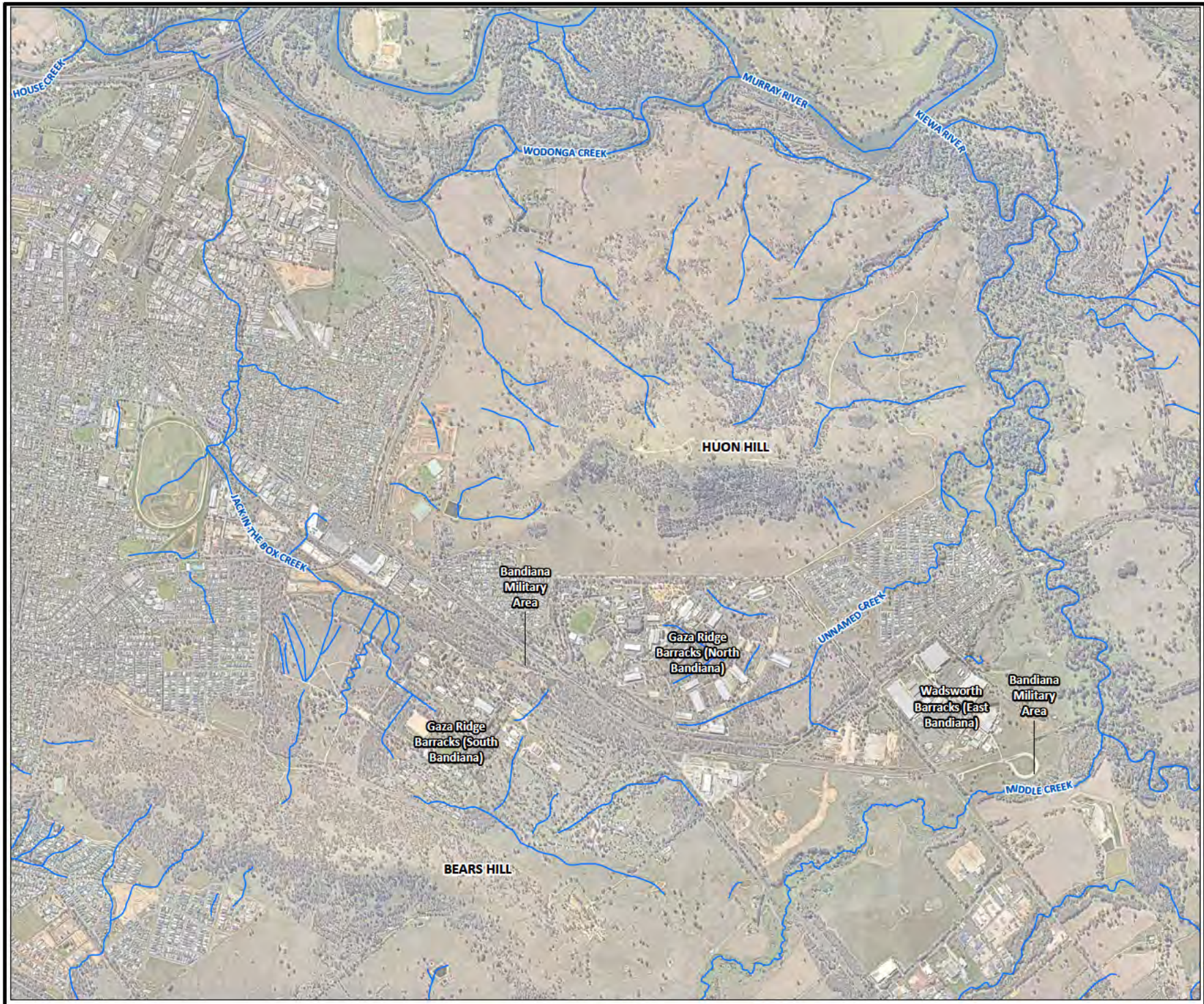


Legend

- Management Area
- Bandiana Military Area
- Watercourse

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 20-Aug-2025

[redacted]

Scale 1:32,000

0 650 1,300
metres

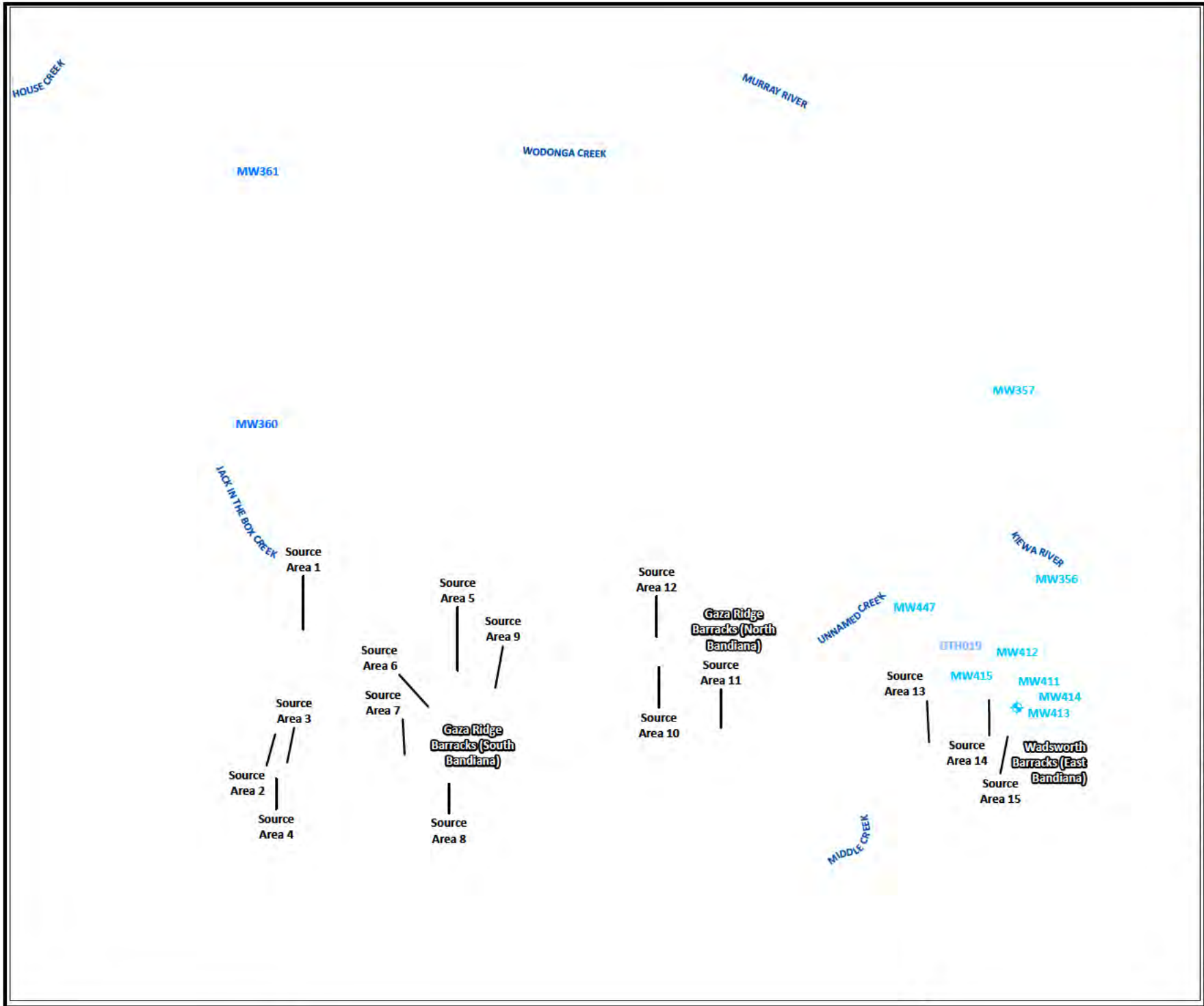
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SITE LOCATION PLAN

FIGURE 1

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

Groundwater Monitoring Well

- Shepparton and Coonambidgal Fluvium - Shallow Aquifer
- Shepparton Colluvium - Shallow Aquifer
- Point of Use (Tap)

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 20-Aug-2025

[redacted]

Scale 1:32,000

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metres

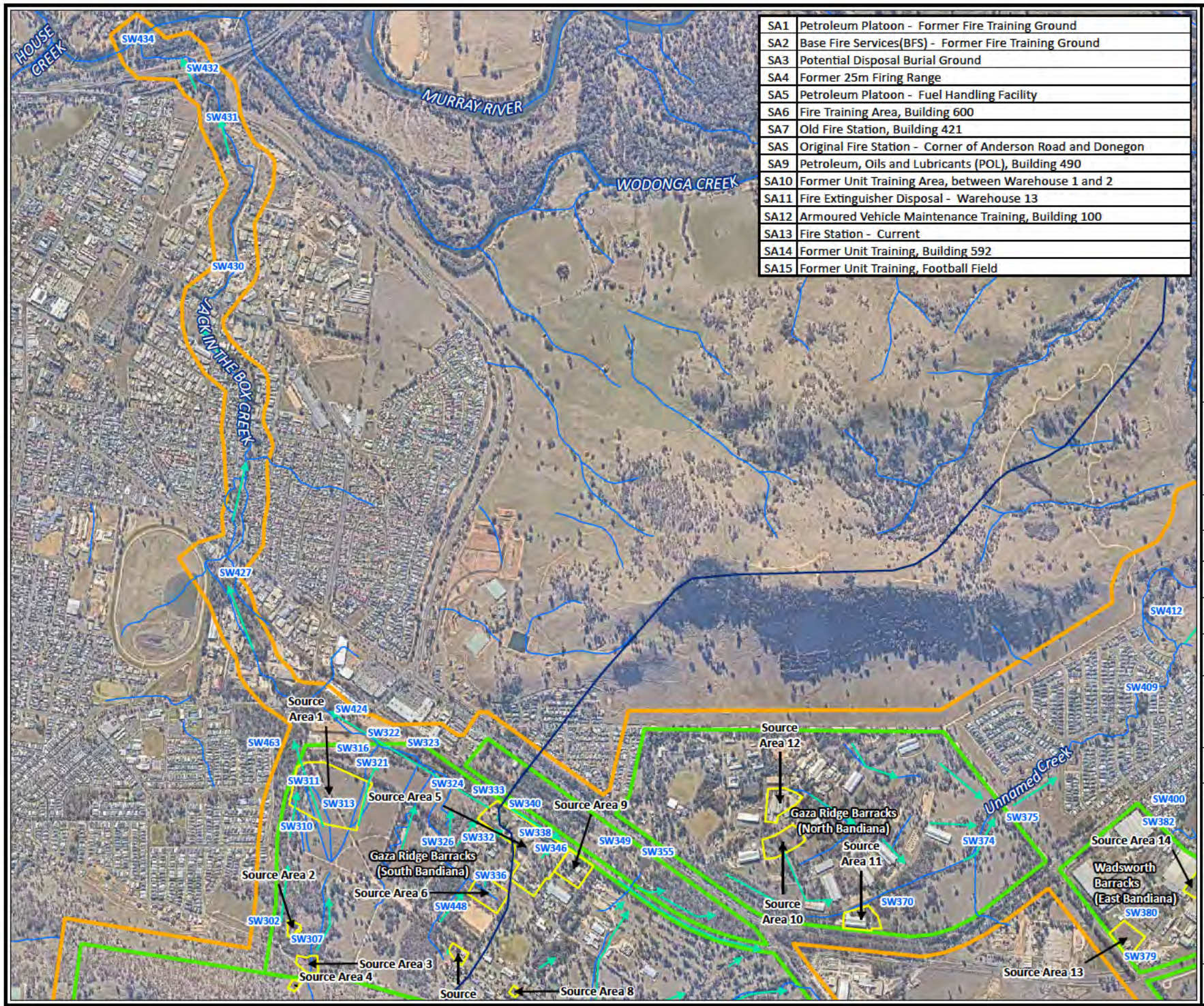
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP GROUNDWATER SAMPLE LOCATIONS

FIGURE 2

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground
SA2	Base Fire Services(BFS) - Former Fire Training Ground
SA3	Potential Disposal Burial Ground
SA4	Former 25m Firing Range
SA5	Petroleum Platoon - Fuel Handling Facility
SA6	Fire Training Area, Building 600
SA7	Old Fire Station, Building 421
SAS	Original Fire Station - Corner of Anderson Road and Donegon
SA9	Petroleum, Oils and Lubricants (POL), Building 490
SA10	Former Unit Training Area, between Warehouse 1 and 2
SA11	Fire Extinguisher Disposal - Warehouse 13
SA12	Armoured Vehicle Maintenance Training, Building 100
SA13	Fire Station - Current
SA14	Former Unit Training, Building 592
SA15	Former Unit Training, Football Field

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Stormwater Divide
- Watercourse
- Drainage Flow Direction
- Surface Water Location

JBS&G

Job No: 61395

Client: Department of Defence

Version: Final | Date: 20-Aug-2025

[redacted]

Scale 1:25,000

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metres

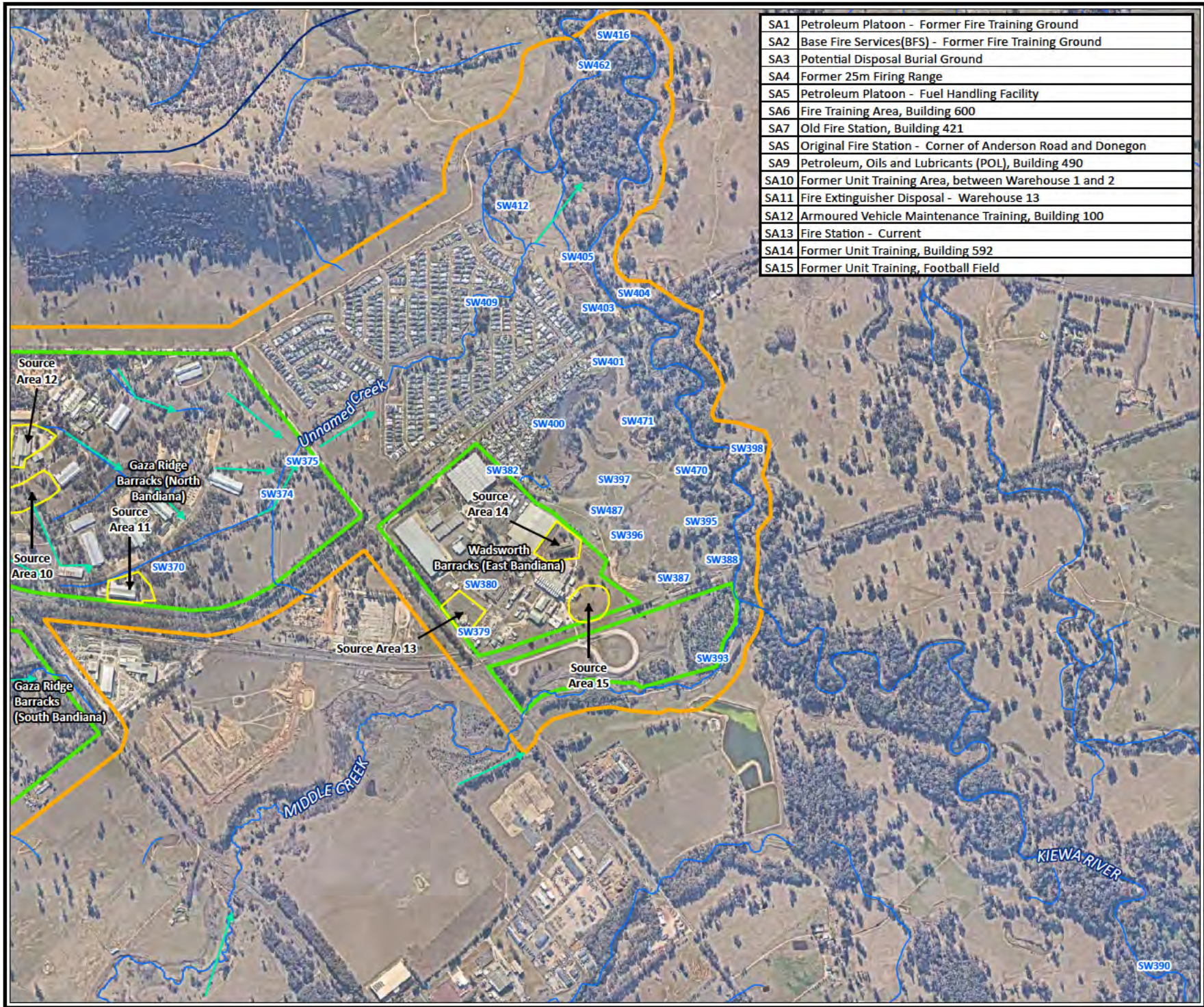
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 3A

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground
SA2	Base Fire Services(BFS) - Former Fire Training Ground
SA3	Potential Disposal Burial Ground
SA4	Former 25m Firing Range
SA5	Petroleum Platoon - Fuel Handling Facility
SA6	Fire Training Area, Building 600
SA7	Old Fire Station, Building 421
SA5	Original Fire Station - Corner of Anderson Road and Donegon
SA9	Petroleum, Oils and Lubricants (POL), Building 490
SA10	Former Unit Training Area, between Warehouse 1 and 2
SA11	Fire Extinguisher Disposal - Warehouse 13
SA12	Armoured Vehicle Maintenance Training, Building 100
SA13	Fire Station - Current
SA14	Former Unit Training, Building 592
SA15	Former Unit Training, Football Field

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Stormwater Divide
- Watercourse
- Drainage Flow Direction
- Surface Water Location

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[redacted]

Scale 1:20,000

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metres

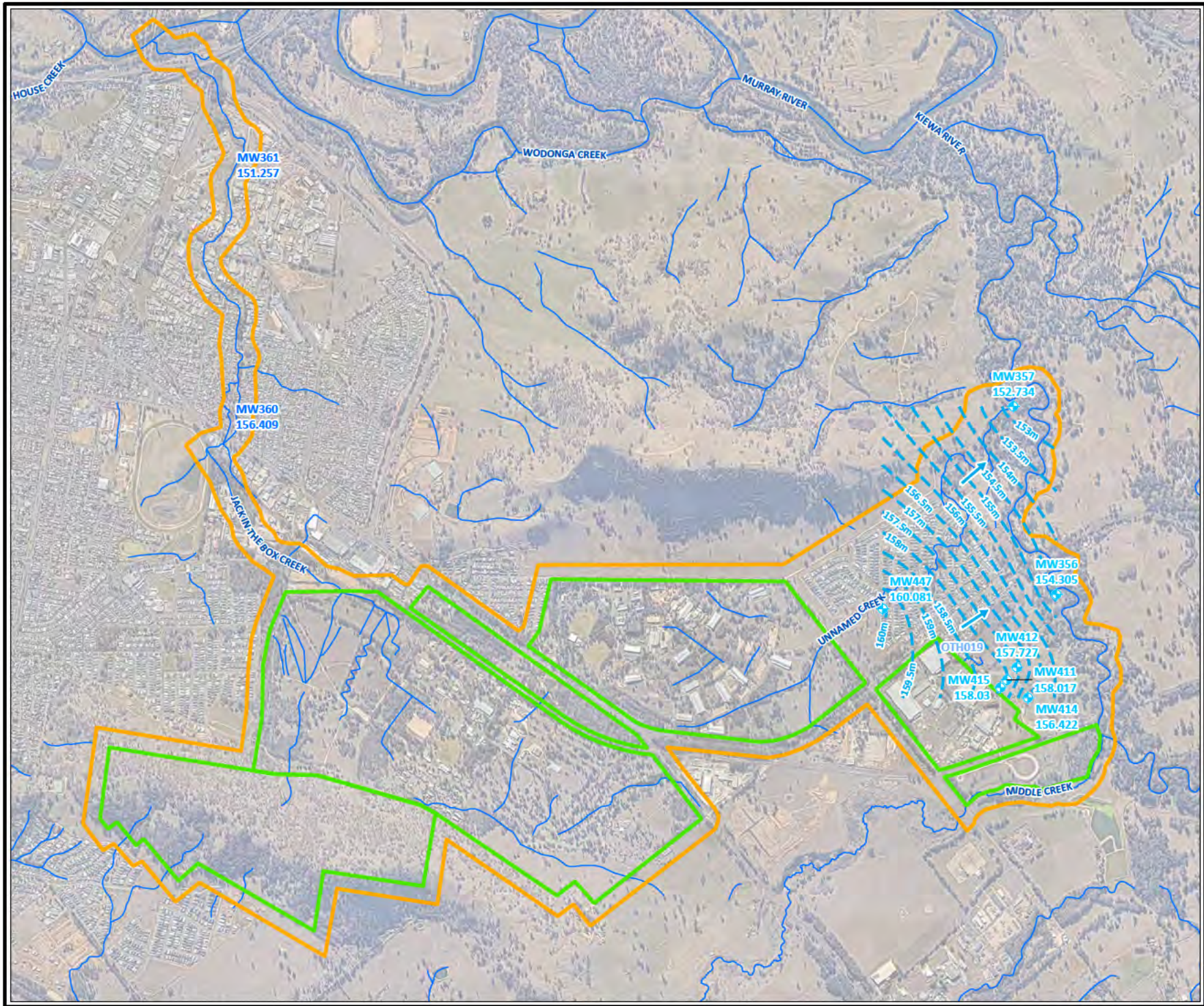
Coord. Sys. GDA 1994 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 3B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Inferred Shepparton and Coonambidgal Fluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton and Coonambidgal Fluvium - Shallow Aquifer Contour

Groundwater Monitoring Well

- Shepparton and Coonambidgal Fluvium - Shallow Aquifer
- Shepparton Colluvium - Shallow Aquifer
- Unknown
- 152.734 151.257 Standing Water Level (mAHD)

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Client: Department of Defence

Version: Final	Date: 20-Aug-2025

[redacted]

Scale 1:32,000

0 650 1,300
metres

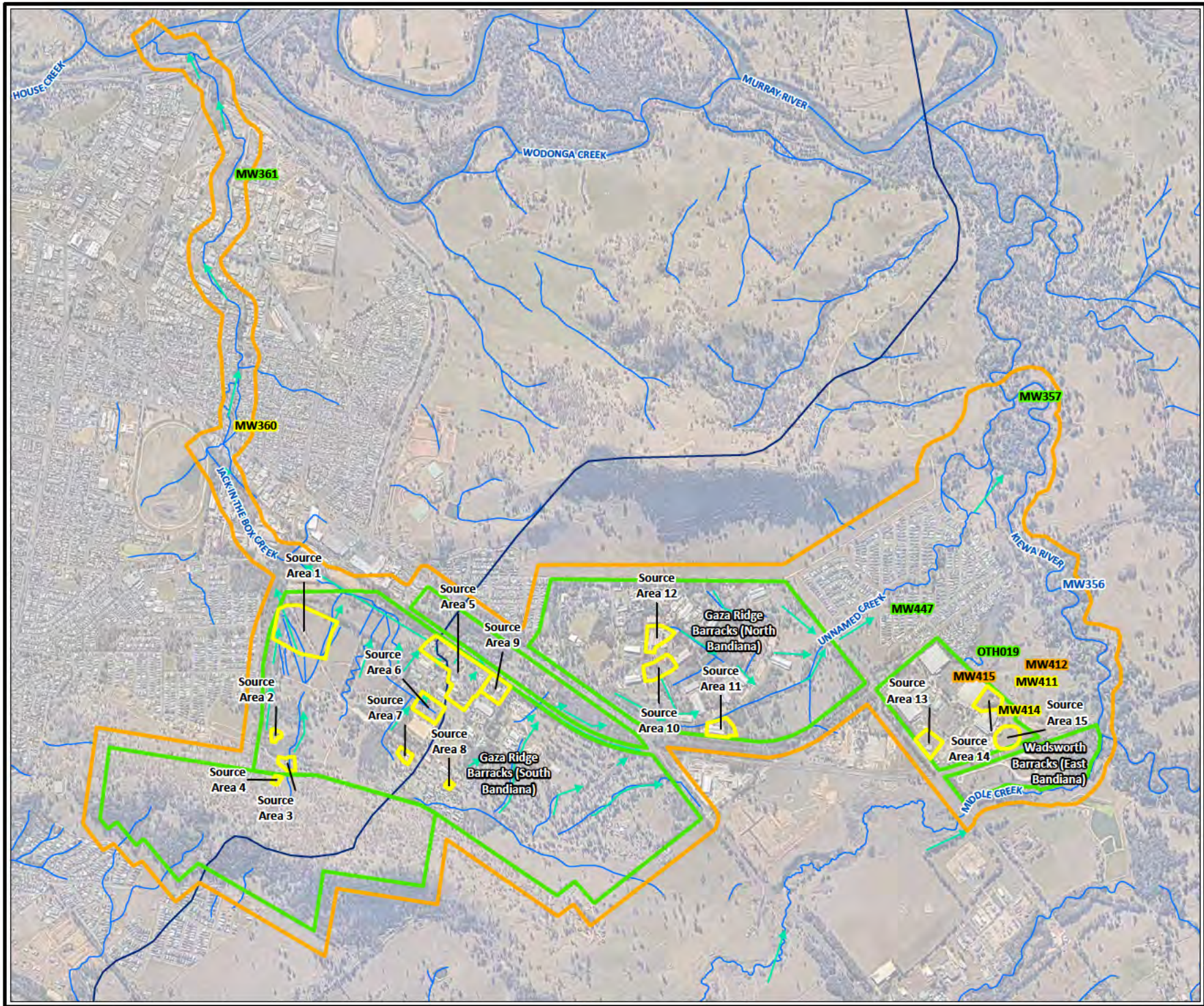
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

MAY 2025 OMP
GROUNDWATER CONTOURS

FIGURE 4

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

PFOS Concentrations

- Below LOR
- LOR to <0.008 µg/L
- 0.008 to <0.13 µg/L
- 0.13 to <2 µg/L
- 2 to 80 µg/L
- > 80 µg/L

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Job No: 61395

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Version: Final | Date: 20-Aug-2025

[redacted]

Scale 1:32,000

0 650 1,300
metres

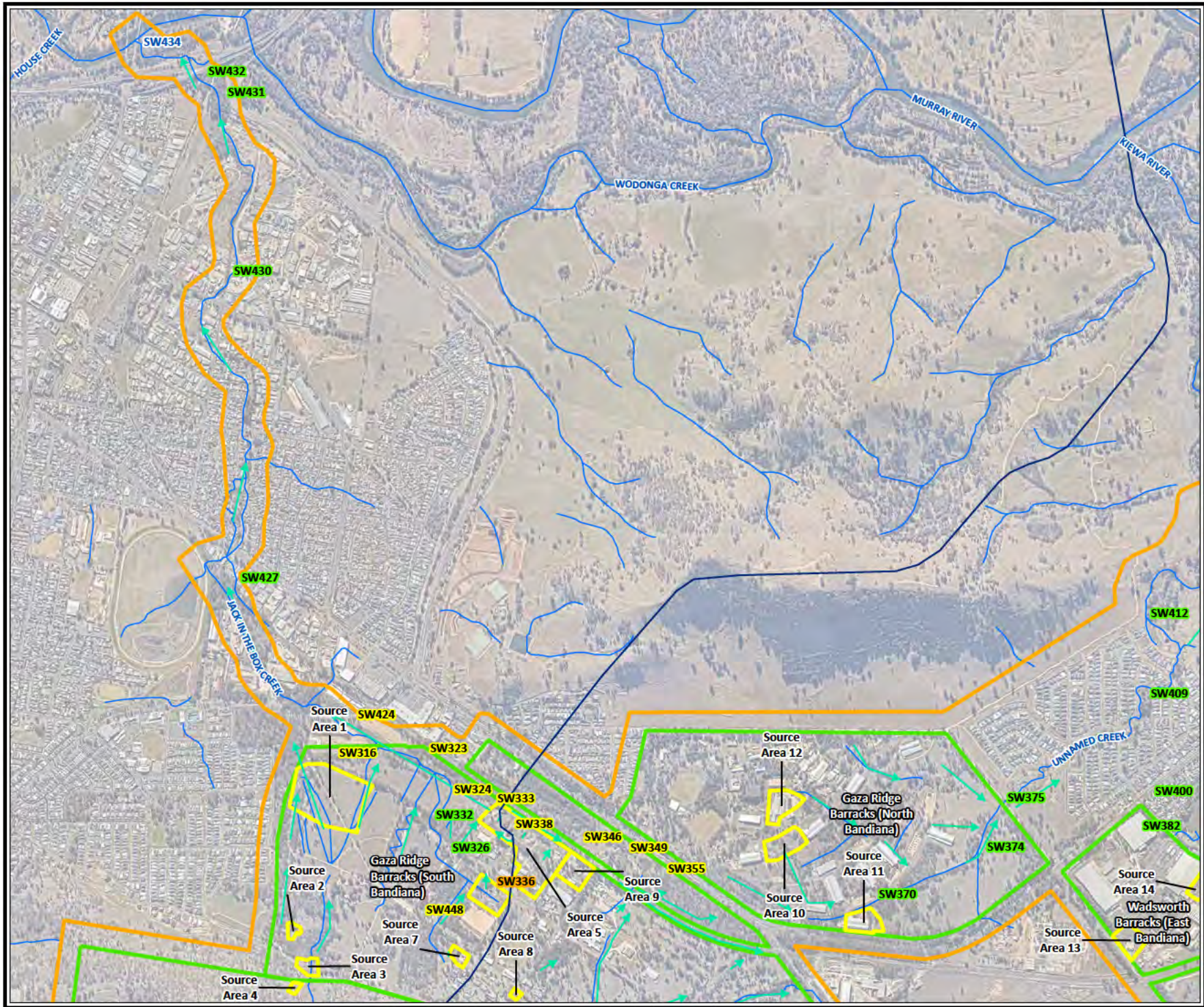
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER PFOS RESULTS SUMMARY (MAY 2025)

FIGURE 5

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

PFOS Concentrations

- Below LOR
- LOR to <0.008 µg/L
- 0.008 to <0.13 µg/L
- 0.13 to <2 µg/L
- 2 to 80 µg/L
- > 80 µg/L

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Job No: 61395

Client: Department of Defence

Version: Final | Date: 20-Aug-2025

[redacted]

Scale 1:25,000

0 500 1,000
metres

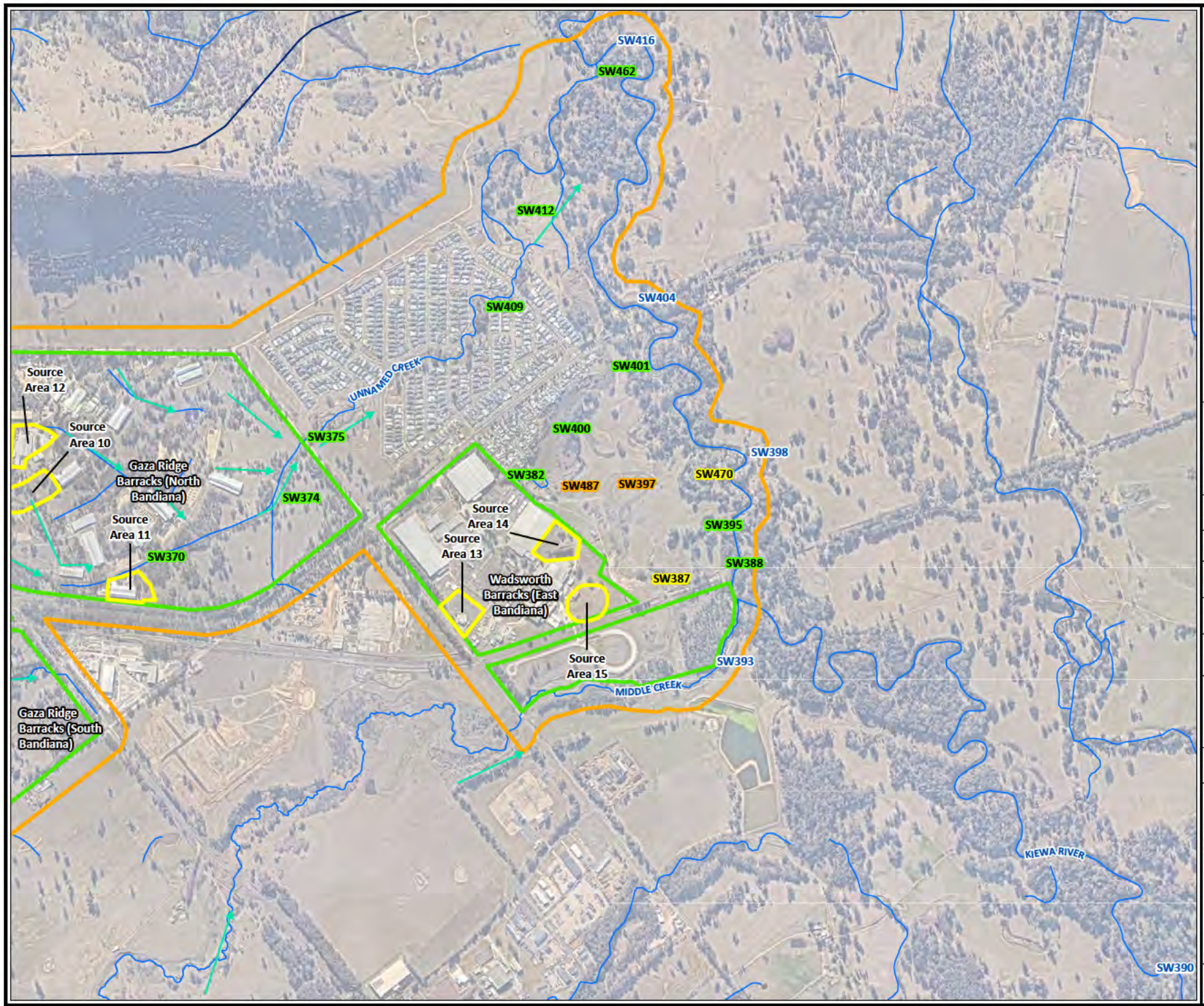
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFOS RESULTS SUMMARY (MAY 2025)

FIGURE 6A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

PFOS Concentrations

- Below LOR
- LOR to <0.008 µg/L
- 0.008 to <0.13 µg/L
- 0.13 to <2 µg/L
- 2 to 80 µg/L
- > 80 µg/L

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Job No: 61395

Client: Department of Defence

Version: Final | Date: 20-Aug-2025

Scale 1:20,000

0 400 800
metres

Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFOS RESULTS SUMMARY (MAY 2025)

FIGURE 6B

Appendix B Analytical Results Tables

Tables provided are as follows:

- Table B1: May 2025 OMP – Sampling Event Analytical Results – Groundwater; and
- Table B2: May 2025 OMP – Sampling Event Analytical Results – Surface Water.

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Bandiana Military Area
May 2025 OMP
Table B1: Sampling Event Analytical Results - Groundwater

				PFAS			PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids						
				Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Sum of PFAS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)
				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				0.001	0.005	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001
NHMRC Drinking Water Guidelines 2025							1		0.03		0.008							0.2		
PFAS NEMP 2025 Freshwater 95%											0.13							220		
PFAS NEMP 2025 Freshwater 99%											0.00023							19		
PFAS NEMP 2025 Recreational Water				2					2		2							10		
Field ID	**Location Code**	**Date**	**Lab Report Number**																	
0445_MW356_250514	**MW356**	**14 May 2025**	**1221064**	<0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW357_250514	**MW357**	**14 May 2025**	**1221064**	**0.05**	**0.05**	<0.1	<0.01	<0.01	**0.03**	<0.01	**0.02**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW360_250514	**MW360**	**14 May 2025**	**1221064**	**0.3**	**0.36**	**0.38**	<0.01	<0.01	**0.11**	**0.02**	**0.19**	<0.01	<0.01	<0.05	**0.02**	**0.02**	**0.01**	**0.01**	<0.01	<0.01
0445_MW361_250514	**MW361**	**14 May 2025**	**1221064**	**0.28**	**0.46**	**0.49**	**0.02**	**0.02**	**0.18**	**0.01**	**0.10**	<0.01	<0.01	<0.05	**0.06**	**0.06**	**0.02**	**0.02**	<0.01	<0.01
0445_MW411_250514	**MW411**	**14 May 2025**	**1221064**	**1.48**	**1.73**	**1.87**	**0.08**	**0.08**	**0.48**	**0.03**	**1.0**	<0.01	<0.01	<0.05	**0.02**	**0.09**	**0.02**	**0.04**	<0.01	<0.01
0445_MW412_250514	**MW412**	**14 May 2025**	**1221064**	**5.7**	**6.21**	**6.51**	**0.13**	**0.16**	**1.4**	**0.09**	**4.3**	<0.01	<0.01	<0.05	**0.04**	**0.19**	**0.04**	**0.11**	<0.01	<0.01
0445_MW414_250514	**MW414**	**14 May 2025**	**1221064**	**2.61**	**2.86**	**3.02**	**0.07**	**0.09**	**0.91**	**0.05**	**1.7**	<0.01	<0.01	<0.05	**0.02**	**0.11**	**0.01**	**0.04**	<0.01	<0.01
0445_MW415_250514	**MW415**	**14 May 2025**	**1221064**	**11.6**	**15.4**	**17.25**	**0.94**	**1.1**	**6.2**	**0.36**	**5.4**	<0.01	<0.01	**0.25**	**0.39**	**1.4**	**0.23**	**0.49**	<0.01	<0.01
0445_MW447_250514	**MW447**	**14 May 2025**	**1221064**	**0.08**	**0.08**	<0.1	<0.01	<0.01	**0.05**	<0.01	**0.03**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_OTH019_250512	**OTH019**	**12 May 2025**	**1221064**	**0.36**	**0.403**	**0.442**	**0.014**	**0.024**	**0.24**	**0.010**	**0.12**	<0.001	<0.001	**0.007**	**0.001**	**0.012**	**0.002**	**0.007**	<0.001	<0.001

Environmental Standards
NHMRC, June 2025, Drinking Water Guidelines
HEPA, January 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, January 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, January 2025, PFAS NEMP 2025 Recreational Water

Bandiana Military Area
May 2025 OMP
Table B1: Sampling Event Analytical Results - Groundwater

								PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides						
				Perfluoroundecanoic acid (PFUnDA)	Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)
				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				0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005
NHMRC Drinking Water Guidelines 2025																		
PFAS NEMP 2025 Freshwater 95%																		
PFAS NEMP 2025 Freshwater 99%																		
PFAS NEMP 2025 Recreational Water																		
Field ID	**Location Code**	**Date**	**Lab Report Number**															
0445_MW356_250514	**MW356**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW357_250514	**MW357**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW360_250514	**MW360**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW361_250514	**MW361**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW411_250514	**MW411**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW412_250514	**MW412**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW414_250514	**MW414**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW415_250514	**MW415**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	**0.10**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_MW447_250514	**MW447**	**14 May 2025**	**1221064**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_OTH019_250512	**OTH019**	**12 May 2025**	**1221064**	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

Environmental Standards
NHMRC, June 2025, Drinking Water Guidelines
HEPA, January 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, January 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, January 2025, PFAS NEMP 2025 Recreational Water

Bandiana Military Area

May 2025 OMP

Table B2: Sampling Event Analytical Results - Surface Water

				PFAS			PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids										
				Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Sum of PFAS	Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
				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
LOR				0.001	0.005	0.005	0.001	0.001	0.001	0.001	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
NHMRC Drinking Water Guidelines 2025							1		0.03		0.008							0.2						
PFAS NEMP 2025 Freshwater 95%											0.13							220						
PFAS NEMP 2025 Freshwater 99%											0.00023							19						
PFAS NEMP 2025 Recreational Water				2					2		2							10						
Field ID	**Location Code**	**Date**	**Lab Report Number**																					
0445_SW316_250527	SW316	27 May 2025	1226670	0.47	0.47	0.47	<0.01	<0.01	0.04	<0.01	0.43	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW323_250527	SW323	27 May 2025	1226670	0.89	1.09	1.13	0.03	0.02	0.16	<0.01	0.73	<0.01	<0.01	<0.05	0.05	0.07	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW324_250527	SW324	27 May 2025	1226670	0.87	1.07	1.1	0.02	0.01	0.19	<0.01	0.68	<0.01	<0.01	<0.05	0.06	0.06	0.02	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW326_250527	SW326	27 May 2025	1226670	0.08	0.08	<0.1	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW332_250527	SW332	27 May 2025	1226670	0.06	0.1	0.11	0.01	<0.01	0.03	<0.01	0.03	<0.01	<0.01	<0.05	0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW333_250527	SW333	27 May 2025	1226670	3	4.31	4.83	0.36	0.29	1.3	0.08	1.7	<0.01	<0.01	0.05	0.10	0.66	0.06	0.08	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW336_250515	SW336	15 May 2025	1221064	21.9	37.1	40.28	0.65	1.1	6.9	0.44	15	0.12	0.05	0.93	1.9	5.1	1.6	3.5	0.83	0.38	0.06	<0.01	<0.01	<0.01
0445_SW338_250515	SW338	15 May 2025	1221064	1.21	1.44	1.49	0.03	0.03	0.21	0.01	1.0	<0.01	<0.01	<0.05	0.04	0.10	0.02	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW346_250515	SW346	15 May 2025	1221064	1.46	1.88	1.99	0.05	0.04	0.26	0.02	1.2	<0.01	<0.01	0.07	0.11	0.10	0.03	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW349_250515	SW349	15 May 2025	1221064	1.36	1.77	1.89	0.05	0.04	0.26	0.02	1.1	<0.01	<0.01	0.06	0.10	0.10	0.04	0.06	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW355_250515	SW355	15 May 2025	1221064	0.23	0.27	0.27	<0.01	<0.01	0.05	<0.01	0.18	<0.01	<0.01	<0.05	0.02	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW370_250528	SW370	28 May 2025	1226670	0.09	0.14	0.14	<0.01	<0.01	0.02	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW374_250528	SW374	28 May 2025	1226670	0.08	0.08	<0.1	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW375_250528	SW375	28 May 2025	1226670	0.08	0.08	<0.1	<0.01	<0.01	0.02	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW382_250515	SW382	15 May 2025	1221064	0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW387_250513	SW387	13 May 2025	1221064	0.49	0.56	0.61	0.03	0.03	0.25	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.03	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW388_250529	SW388	29 May 2025	1226670	0.05	0.41	0.41	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW390_250513	SW390	13 May 2025	1221064	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<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
0445_SW393_250513	SW393	13 May 2025	1221064	<0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW395_250513	SW395	13 May 2025	1221064	0.16	0.19	0.19	<0.01	<0.01	0.05	<0.01	0.11	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW397_250513	SW397	13 May 2025	1221064	10.7	13.57	15.03	0.70	0.80	4.7	0.38	6.0	<0.01	<0.01	0.19	0.28	1.1	0.19	0.41	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW398_250513	SW398	13 May 2025	1221064	<0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW400_250528	SW400	28 May 2025	1226670	0.1	0.11	0.11	<0.01	<0.01	0.04	<0.01	0.06	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW401_250528	SW401	28 May 2025	1226670	0.25	0.28	0.3	0.02	0.02	0.12	<0.01	0.13	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW404_250513	SW404	13 May 2025	1221064	<0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW409_250513	SW409	13 May 2025	1221064	0.08	0.09	<0.1	<0.01	<0.01	0.01	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW412_250513	SW412	13 May 2025	1221064	0.06	0.07	<0.1	<0.01	<0.01	0.02	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW416_250514	SW416	14 May 2025	1221064	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<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
0445_SW424_250527	SW424	27 May 2025	1226670	1.11	1.32	1.38	0.03	0.03	0.32	0.02	0.79	<0.01	<0.01	<0.05	0.05	0.08	0.02	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW427_250527	SW427	27 May 2025	1226670	0.07	0.07	<0.1	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW430_250514	SW430	14 May 2025	1221064	0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW431_250514	SW431	14 May 2025	1221064	0.05	0.05	<0.1	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW432_250514	SW432	14 May 2025	1221064	0.07	0.07	<0.1	<0.01	<0.01	0.01	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW434_250514	SW434	15 May 2025	1221064	<0.01	<0.05	<0.1	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW448_250527	SW448	27 May 2025	1226670	1.86	2.69	2.95	0.14	0.06	0.66	0.03	1.2	<0.01	<0.01	0.14	0.16	0.28	0.04	0.07	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW462_250528	SW462	28 May 2025	1226670	0.03	<0.05	<0.1	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW470_250528	SW470	28 May 2025	1226670	0.5	0.57	0.6	0.03	0.02	0.18	<0.01	0.32	<0.01	<0.01	<0.05	0.03	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW487_250513	SW487	13 May 2025	1221064	13	15.66	17.11	0.64	0.78	4.7	0.42	8.3	<0.01	<0.01	0.18	0.26	1.0	0.18	0.40	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Environmental Standards

NHMRC, June 2025, Drinking Water Guidelines

HEPA, January 2025, PFAS NEMP 2025 Freshwater 95%

HEPA, January 2025, PFAS NEMP 2025 Freshwater 99%

HEPA, January 2025, PFAS NEMP 2025 Recreational Water

Bandiana Military Area

May 2025 OMP

Table B2: Sampling Event Analytical Results - Surface Water

				PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides						
				4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)
				µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR				0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005
NHMRC Drinking Water Guidelines 2025														
PFAS NEMP 2025 Freshwater 95%														
PFAS NEMP 2025 Freshwater 99%														
PFAS NEMP 2025 Recreational Water														
Field ID	**Location Code**	**Date**	**Lab Report Number**											
0445_SW316_250527	SW316	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW323_250527	SW323	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW324_250527	SW324	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW326_250527	SW326	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW332_250527	SW332	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW333_250527	SW333	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW336_250515	SW336	15 May 2025	1221064	<0.01	**0.58**	**0.94**	**0.03**	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW338_250515	SW338	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW346_250515	SW346	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW349_250515	SW349	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW355_250515	SW355	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW370_250528	SW370	28 May 2025	1226670	<0.01	**0.05**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW374_250528	SW374	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW375_250528	SW375	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW382_250515	SW382	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW387_250513	SW387	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW388_250529	SW388	29 May 2025	1226670	<0.01	**0.35**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW390_250513	SW390	13 May 2025	1221064	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
0445_SW393_250513	SW393	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW395_250513	SW395	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW397_250513	SW397	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW398_250513	SW398	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW400_250528	SW400	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW401_250528	SW401	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW404_250513	SW404	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW409_250513	SW409	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW412_250513	SW412	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW416_250514	SW416	14 May 2025	1221064	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
0445_SW424_250527	SW424	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW427_250527	SW427	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW430_250514	SW430	14 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW431_250514	SW431	14 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW432_250514	SW432	14 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW434_250514	SW434	15 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW448_250527	SW448	27 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW462_250528	SW462	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW470_250528	SW470	28 May 2025	1226670	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05
0445_SW487_250513	SW487	13 May 2025	1221064	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

Environmental Standards

NHMRC, June 2025, Drinking Water Guidelines

HEPA, January 2025, PFAS NEMP 2025 Freshwater 95%

HEPA, January 2025, PFAS NEMP 2025 Freshwater 99%

HEPA, January 2025, PFAS NEMP 2025 Recreational Water

Appendix C Physical Parameter Results Tables

Tables provided are as follows:

- TC1 – Groundwater Gauging Data;
- TC2 – Groundwater Field Parameters; and
- TC3 – Surface Water Field Parameters.

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Table C1: Groundwater Gauging Data

Property ID	Well ID	Gauging Date	Aquifer	Approx. Height of Stick Up (mbgl)	Screen depth (mbgl)	Approx. Well Depth (mbgl)	Measured Well Depth (mbtoc)	Depth to Water (mbtoc)	Water Column Depth (m)	TOC Elevation (mAHD)	Ground- water Elevation (mAHD)	Condition of Well
0445	MW356	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.700	1.0-3.0	3.700	3.650	2.577	1.073	156.882	154.305	Good
0445	MW357	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.770	2.5-5.5	6.270	6.275	3.509	2.766	156.243	152.734	Good
0445	MW360	12/05/2025	Shepparton Colluvium - Shallow Aquifer	-0.105	10.7-12.7	12.595	13.114	8.481	4.633	164.890	156.409	Good
0445	MW361	12/05/2025	Shepparton Colluvium - Shallow Aquifer	-0.170	3.5-6.5	6.330	6.321	2.459	3.862	153.716	151.257	Good
0445	MW411	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.810	6-9	9.810	9.698	6.793	2.905	164.810	158.017	Good
0445	MW412	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.830	1.5-4.5	5.330	5.290	0.978	4.312	158.705	157.727	Good
0445	MW414	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.900	1.5-4.5	5.400	5.161	1.298	3.863	157.720	156.422	Good
0445	MW415	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.830	6-9	9.830	9.382	7.160	2.222	165.190	158.030	Good
0445	MW447	12/05/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	-0.170	6-9	8.830	8.670	4.289	4.381	164.370	160.081	Good

Table C2: Groundwater Field Parameters

Property ID	Well ID	Hydrasleeve Deployment Date	Sample Collection Date	Aquifer	Sample Method / Comments	HydraSleeve Deployment Depth (mbtoc)	DO (mg/L)	EC (µS/cm)	pH	ORP (mV)	Temp (°C)	Turbidity	Water Colour	Odour	Sheen	Other Observations
0445	MW356	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	3.55	3.84	55.70	6.15	4.40	16.60	Cloudy	Brown/orange	No odour	No sheen	No foaming, fine sediment
0445	MW357	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	6.175	1.11	172.80	5.85	-61.80	17.60	Slightly cloudy	Light brown	No odour	No sheen	No foaming, fine sediment
0446	MW360	12-05-2025	14-05-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	13.014	2.46	978.00	7.18	-2.20	21.30	Clear	Very light brown	No odour	No sheen	No foaming
0445	MW361	12-05-2025	14-05-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	6.221	1.22	1284.00	5.61	-47.50	19.50	Cloudy	Light brown	No odour	No sheen	No foaming, fine sediment
0445	MW411	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.598	2.37	349.90	5.66	394.90	17.20	Cloudy	Light brown	No odour	No sheen	No foaming, fine particles
0445	MW412	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	5.190	2.16	419.50	5.70	48.90	17.90	Cloudy	Light brown	No odour	No sheen	No foaming, fine particles
0445	MW414	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	5.061	1.13	319.40	5.83	23.90	16.90	Clear	Clear	No odour	No sheen	No foaming
0445	MW415	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.282	1.89	393.00	5.61	143.60	17.80	Cloudy	Light brown	No odour	No sheen	No foaming, fine particles
0445	MW447	12-05-2025	14-05-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	8.510	0.89	3001 .00	6.43	-19.00	19.70	Clear	Clear	No odour	No sheen	No foaming
0445	OTH019	-	14-05-2025	Shepparton and Coonambidgal Fluvium	Point Source Tap	-	3.47	307.80	5.96	137.10	19.20	Clear	Clear	No odour	No sheen	No foaming

Notes
DO - Dissolved Oxygen
EC - Electrical Conductivity
ORP - Corrected Oxidation Reduction Potential
µS/cm - Microsiemens per centimetre mV - millivolts
°C - degrees Celsius

Table C3: Surface Water Field Parameters

Location ID	Sample Date	Water Body	Flow	Sample Depth (m)	DO (mg/L)	EC (µS/cm)	pH	ORP (mV)	Temp (°C)	Colour / Turbidity	Odour	Sheen	Shake Test	Water Body Observations
SW316	27/05/2025	Drain	Stagnant	0.20	5.25	76.2	6.66	141.1	10.30	Brown, moderate turbidity	No odour	No sheen	No foaming	No foaming, organics present
SW323	27/05/2025	Dam	Stagnant	0.05	6.07	27.2	6.31	50.0	10.60	Brown, moderate turbidity	No odour	No sheen	No foaming	No foaming
SW324	27/05/2025	Drain	Stagnant	0.20	4.04	58.1	6.06	52.6	11.10	Yellow/brown, low turbidity	No odour	No sheen	No foaming	No foaming
SW326	27/05/2025	Drain	Gentle	0.05	4.95	31.4	6.28	47.5	13.0	Brown, low turbidity	No odour	No sheen	No foaming	No foaming
SW336	15/05/2025	Dam	Stagnant	0.20	6.80	97.9	7.02	151.2	17.8	Light brown, no turbidity	No odour	No sheen	Minor foaming	Foaming present
SW333	27/05/2025	Drain	Gentle	0.02	9.05	50.7	6.58	52.9	11.20	Clear	No odour	No sheen	Minor foaming	No foaming
SW338	15/05/2025	Dam	Stagnant	0.20	10.16	97.9	7.02	151.2	17.8	Clear	No odour	No sheen	No foaming	Foaming present
SW382	15/05/2025	Dam	Stagnant	0.20	5.38	39.1	6.92	175.8	13.2	Light brown, no turbidity	No odour	No sheen	No foaming	Foaming present
SW332	27/05/2025	Drain	Gentle	0.02	9.27	35.9	6.50	51.4	11.2	Slightly yellow, no turbidity	No odour	No sheen	No foaming	Foaming present
SW448	27/05/2025	Drain	Stagnant	0.05	7.09	45.1	6.44	41.5	12.3	Yellow, no turbidity	No odour	No sheen	No foaming	Slight foaming present
SW427	27/05/2025	Jack in the Box Creek	Gentle	0.05	7.15	76.6	6.73	45.6	11.8	White, moderate turbidity	No odour	No sheen	No foaming	Slight foaming present
SW370	28/05/2025	Drain	Stagnant	0.05	3.09	63.5	7.11	61.7	11.0	Clear	No odour	No odour	No foaming	No foaming
SW374	28/05/2025	Drain	Stagnant	0.02	5.11	50.0	6.97	46.3	10.6	Clear	No odour	No sheen	No foaming	No foaming
SW375	28/05/2025	Creek	Gentle	0.07	4.42	42.0	6.55	46.7	11.5	Low turbidity	No odour	No sheen	No foaming	No foaming
SW346	15/05/2025	Ornamental Pond	Stagnant	0.20	4.77	102.6	6.92	154.4	14.5	Light brown, no turbidity	No odour	No sheen	No foaming	Slight foaming present
SW387	13/05/2025	Drain	Stagnant	0.10	6.88	325.2	6.07	99.9	18.2	Brown, moderate turbidity	Musty odour	No sheen	No foaming	No foaming, some suspected solids
SW388	29/05/2025	Drain	Stagnant	0.02	5.44	127.8	6.22	61.2	10.9	Clear	No odour	No sheen	No foaming	No foaming
SW390	13/05/2025	Kiewa River	Moderate	0.20	9.21	35.3	6.99	87.0	12.6	Light brown, no turbidity	No odour	No sheen	No foaming	No foaming
SW393	13/05/2025	Middle Creek	Stagnant	0.20	8.72	255.7	6.53	89.2	10.4	Light brown, no turbidity	Eucalyptus odour	No sheen	No foaming	No foaming
SW349	15/05/2025	Ornamental Pond	Stagnant	0.20	5.30	115.4	6.92	175.8	13.2	Light brown, no turbidity	No odour	No sheen	No foaming	Foaming present
SW397	13/05/2025	Oxbow	Stagnant	0.20	3.82	456.6	6.95	82.3	16.2	Light brown	Slight musty odour	No sheen	Minor foaming	No foaming
SW398	13/05/2025	Kiewa River	Moderate	0.03	9.31	35.2	7.39	42.1	13.6	Clear	No odour	No sheen	No foaming	No foaming
SW400	28/05/2025	Oxbow	Gentle	0.05	8.51	126.4	7.77	27.7	17.6	Yellow/white, low to moderate turbidity	Organic odour	No sheen	No foaming	No foaming
SW401	28/05/2025	Oxbow	Stagnant	0.05	8.58	256.9	7.05	34.7	18.1	Clear	Organic ordour	No sheed	No foaming	No foaming
SW404	13/05/2025	Kiewa River	Moderate	0.20	8.44	29.4	6.67	132.9	11.3	Clear	No odour	No sheen	No foaming	No foaming
SW409	13/05/2025	Unnamed Creek	Stagnant	0.10	7.90	121.7	6.27	174.5	11.2	Light brown, no turbidity	Eucalyptus odour	No sheen	No foaming	No foaming
SW355	15/05/2025	Ornamental Pond	Stagnant	0.20	3.22	79.0	6.71	162.1	14.3	Light brown, no turbidity	No odour	No sheen	No foaming	Foaming present
SW416	14/05/2025	Kiewa River	Gentle	0.20	8.26	40.8	6.59	20.6	13.3	Clear	No odour	No sheen	No foaming	No foaming
SW424	27/05/2025	Jack in the Box Creek	Gentle	0.01	8.52	69.4	6.28	50.4	11.3	White/yellow, moderate turbidity	No odour	No sheen	No foaming	No foaming
SW395	13/05/2025	Oxbow	Stagnant	0.20	8.45	47.3	6.64	80.2	14.8	Brown, very high turbidity	Earthy odour	No sheen	No foaming	Lots of suspended particles, no foaming
SW430	14/05/2025	Jack in the Box Creek	Stagnant	0.20	4.16	187.4	5.90	-150.6	18.0	Light grey, no turbidity	Musty odour	No sheen	No foaming	No foaming
SW431	14/05/2025	Jack in the Box Creek	Stagnant	0.10	0.58	124.1	6.06	32.1	13.5	Light brown, cloudy	No odour	No sheen	No foaming	No foaming
SW432	14/05/2025	Jack in the Box Creek	Gentle	0.05	5.75	116.1	6.39	11.3	13.9	Clear	No odour	No sheen	No foaming	No foaming
SW434	15/05/2025	Jack in the Box Creek	Gentle	0.20	6.14	60.6	6.61	9.5	16.6	Clear	Eucalyptus odour	No sheen	No foaming	No foaming
SW412	13/05/2025	Oxbow	Stagnant	0.20	3.46	118.3	6.34	136.7	9.6	Light brown, no turbidity	No odour	No sheen	No foaming	Very slight foaming
SW462	28/05/2025	Unnamed Creek	Gentle	0.05	4.12	114.4	6.61	14.9	13.5	Slightly yellow , clear	No odour	No sheen	No foaming	No foaming
SW470	28/05/2025	Oxbow	Stagnant	0.05	7.59	140.7	7.14	24.7	12.9	Slightly yellow, very low turbidity	No odour	No sheen	No foaming	No foaming
SW487	13/05/2025	Oxbow	Stagnant	0.20	2.89	429.3	6.68	115.4	15.8	Light brown, cloudy	Slight musty odour	No sheen	Minor foaming	No foaming

Notes
DO - Dissolved Oxygen
EC - Electrical Conductivity
ORP - Corrected Oxidation Reduction Potential
µS/cm - microsiemens per centimetre mV - millivolts
°C - degrees Celsius

Appendix D Data Quality Assessment

Data Validation	
Project Number:	61395
Client:	Department of Defence
Site:	Bandiana Military Area
Matrix Type:	Groundwater and surface water
Laboratory:	Eurofins, Envirolab Services

Table D.1: Data Quality Assessment Summary

Precision		
Intra laboratory Duplicates (blind)	Relative Percent Differences (RPDs) less than 30.	***Groundwater*** A total of 1 groundwater blind duplicates was collected and analysed. Blind duplicates were collected and analysed at a rate of 1/10 primary samples. None of the 29 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. ***Surface water*** A total of 5 surface water blind duplicates were collected and analysed. Blind duplicates were collected and analysed at a rate of 1/10 primary samples. A total of 1 out of 145 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. This was PFOS in sample 0445_QC101_250527 which had an RPD of 40%. Analyte concentrations between the primary and corresponding blind duplicate samples were within an order of magnitude (i.e. 0.73 µg/L verses 1.1 µg/L), and the RPD exceedances are likely associated with the low concentrations reported. As such, the exceedances are not considered to impact the validity of the data. RPD Results are presented in **Table D1** in this appendix.
Inter laboratory duplicates (split)	RPDs less than 30.	***Groundwater*** A total of 1 groundwater split duplicates were collected and analysed. Split duplicates were collected and analysed at a rate of 1/10 primary samples. None of the 29 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. ***Surface water*** A total of 5 surface water split duplicates were collected and analysed. Split duplicates were collected and analysed at a rate of 1/10 primary samples. A total of 2 out of 140 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. This was PFOS for samples 0445_QC202_250513 at 53% and PFHxS for sample 0445_QC201_250527 at 44%%. Analyte concentrations between the primary and corresponding blind duplicate samples (0.24 µg/L verse 0.14 µg/L, and 0.16 µg/L and 0.25

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		µg/L respectively) were within an order of magnitude, and the RPD exceedances are generally associated with the low concentrations reported. As such, the exceedances are not considered to impact the validity of the data. RPD Results are presented in **Table D1** in this appendix.
Laboratory duplicates	RPDs less than 30.	No RPD exceedances were reported out of 424 results (excluded 'analytes' which are a summation of other analytes and surrogate data from the secondary lab). A total of 8 laboratory duplicates were analysed by the laboratory. A total of 1 out of 464 replicate analytes (excluded 'analytes' which are a summation of other analytes and surrogate data from the secondary lab exceeded the RPD of 30). This was PFOS for sample 0445_SW388_250529 (40%). Analyte concentrations between the primary and corresponding lab duplicate were 0.03 and 0.02 µg/L.
Accuracy		
Laboratory control samples	Recoveries between 70-130%.	11 out of 240 lab control samples were outside of the target recovery range with the majority of those above 130%, which ranged from 131% to 267%. All recovery ranges outside of the target range were related to PFAS which do not have assessment criteria as part of this assessment. Overall, lab control samples outside of the target range do not impact the validity of the data.
Laboratory matrix spikes	Recoveries between 70-130%.	13 out of 206 lab matrix spikes were outside of the target recovery range with the majority of those above 130%, which ranged from 131% to 142%. All recovery ranges outside of the target range were related to PFAS which do not have assessment criteria as part of this assessment. Overall, lab matrix spike samples outside of the target range do not impact the validity of the data.
Equipment calibration	-	All field equipment was calibrated by the equipment supplier. Calibration certificates have been provided as **Appendix E.**
Representativeness		
Sampling appropriate for media and analytes	-	Samples were collected using appropriate methods, in accordance with the methodology detailed within the SAQP (JBS&G 2025) and as detailed in this SER.
Samples extracted and analysed within holding times.	All samples within holding time	The review of holding times from the relevant laboratory reports showed that all samples were extracted and analysed within recommended holding times (28 days for PFAS in water samples when refrigerated).
Field trip blanks	Less than lab LOR.	A total of 2 trip blanks were submitted and analysed for PFAS. Results are presented in **Table D2** in this appendix. All analytes reported concentrations below the LOR.
Field rinsate blanks	Less than lab LOR.	Rinsate blank samples were collected at a frequency of one per day of sampling where appropriate (4 in total). Rinsate blank samples were collected from the decontaminated interface probe.

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		Results are presented in **Table D2** in this appendix. PFAS concentrations were reported below the LOR in all samples tested.
Field blanks	Less than lab LOR.	A total of 7 field blank samples were collected (one per day of sampling) and submitted for analysis for PFAS. Results are presented in **Table D2** in this appendix. All analytes reported concentrations below the LOR.
Laboratory blanks	Less than the lab LOR.	All 568 lab blanks (excluded 'analytes' which are a summation of other analytes and surrogate data from the secondary lab) reported concentrations below the LOR.
Equipment decontamination	-	Non-dedicated sampling equipment was decontaminated between sample locations, in accordance with the SAQP (JBS&G 2025) and as detailed in this SER.
Comparability		
Standard operating procedures for samples collection and handling		Sampling was completed in accordance with methodologies outlined in the SAQP (JBS&G 2025).
Standard analytical methods used for all analysis.		Samples were analysed using NATA accredited methods.
Consistent field conditions, sampling staff and laboratory analysis		Sampling was completed by appropriately trained and qualified personnel.
Limit of reporting appropriate and consistent		The LOR was generally sufficiently low to enable assessment against adopted screening criteria. LORs were higher than the Freshwater (99% species protection) and Drinking water screening criterion of 0.00023 µg/L and 0.008 µg/L respectively, however this is consistent with previous investigations and in accordance with the SAQP (JBS&G 2025). Furthermore, given that PFOS results were higher than the LOR of 0.01 µg/L for 85% of collected samples, the LOR did not significantly impact the program objectives and findings.
Completeness		
Program	All critical locations sampled	The scope of works was undertaken in general accordance with the SAQP (JBS&G 2025) and as prescribed by the OMP with the exception of the 15 dry surface water locations which were found dry at the time of sampling during both mobilisations. This deviation is not considered to have a material impact on the program objectives and findings (see **Section 3** for further context).

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Table D.2: Summary of field and laboratory QA/QC samples compared to DQI

QA/QC sample type	Total no. of results	No. of results meeting data quality indicator	Percentage meeting data quality indicator
Field blinds (intra-lab)	174	173	99%
Field splits (inter-lab)	169	167	99%
Field rinsates	128	128	100%
Field trip blanks	64	64	100%
Field blanks	224	224	100%
Lab duplicates	464	463	99%
Lab blanks	266	266	100%
Lab matrix spikes	206	193	93%
Lab control samples	240	229	95%
Overall	**1895**	**1868**	**99%**

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Bandiana Military Area
May 2025 OMP
Table 3: RPD Summary Table

		Project ID	VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a	
		Location Code	SW387	SW387		SW387	SW387		SW409	SW409		SW409	SW409	
		Field ID	0445_SW387_250513	0445_QC102_250513		0445_SW387_250513	0445_QC202_250513		0445_SW409_250513	0445_QC101_250513		0445_SW409_250513	0445_QC201_250513	
		Date	13 May 2025	13 May 2025		13 May 2025	13 May 2025		13 May 2025	13 May 2025		13 May 2025	13 May 2025	
		Lab Report Number	1221064	1221064		1221064	MGE0347		1221064	1221064		1221064	MGE0347	
		Sample Type	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD
	Unit	LOR												
PFAS - Perfluoroalkyl Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.03**	**0.03**	0	**0.03**	**0.046**	42	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.03**	**0.03**	0	**0.03**	**0.043**	36	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.25**	**0.25**	0	**0.25**	**0.29**	15	**0.01**	**0.01**	0	**0.01**	**0.016**	46
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.019**	5	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.24**	**0.20**	18	**0.24**	**0.14**	53	**0.07**	**0.08**	13	**0.07**	**0.054**	26
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	<0.01	0	<0.01	-	-
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.20	0	<0.05	<0.05	0	<0.05	<0.20	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.03**	**0.04**	29	**0.03**	**0.035**	15	**0.01**	**0.01**	0	**0.01**	<0.010	0
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	**0.011**	10	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.01**	**0.01**	0	**0.01**	**0.013**	26	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.050	0	<0.01	<0.01	0	<0.01	<0.050	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids														
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Sulfonamides														
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	<0.05	0	<0.05	<0.10	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.50	0	<0.05	<0.05	0	<0.05	<0.50	0
PFAS														
Sum of PFHxS and PFOS	µg/L	0.01	**0.49**	**0.45**		**0.49**	**0.43**		**0.08**	**0.09**		**0.08**	**0.070**	
Sum of PFAS (WA DER List)	µg/L	0.05	**0.56**	**0.53**		**0.56**	**0.54**		**0.09**	**0.1**		**0.09**	**0.070**	
Sum of PFAS	µg/L	0.1	**0.61**	**0.58**		**0.61**	**0.60**		<0.1	**0.1**		<0.1	<0.010	

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

Bandiana Military Area
May 2025 OMP
Table 3: RPD Summary Table

		Project ID	VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a	
		Location Code	MW360	MW360		MW360	MW360		SW338	SW338		SW338	SW338	
		Field ID	0445_MW360_250514	0445_QC101_250514		0445_MW360_250514	0445_QC201_250514		0445_SW338_250515	0445_QC101_250515		0445_SW338_250515	0445_QC201_250515	
		Date	14 May 2025	14 May 2025		14 May 2025	14 May 2025		15 May 2025	15 May 2025		15 May 2025	15 May 2025	
		Lab Report Number	1221064	1221064		1221064	MGE0347		1221064	1221064		1221064	MGE0347	
		Sample Type	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD
	Unit	LOR												
PFAS - Perfluoroalkyl Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	**0.022**	75	**0.03**	**0.03**	0	**0.03**	**0.046**	42
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	**0.011**	10	**0.03**	**0.03**	0	**0.03**	**0.034**	13
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.11**	**0.11**	0	**0.11**	**0.12**	9	**0.21**	**0.21**	0	**0.21**	**0.24**	13
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.017**	16	**0.01**	**0.01**	0	**0.01**	**0.015**	40
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.19**	**0.19**	0	**0.19**	**0.14**	30	**1.0**	**1.1**	10	**1.0**	**0.75**	29
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01	-	-	<0.01	<0.01	0	<0.01	-	-
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.20	0	<0.05	<0.05	0	<0.05	<0.20	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.02**	<0.01	67	**0.02**	**0.014**	35	**0.04**	**0.02**	67	**0.04**	**0.039**	3
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.014**	35	**0.10**	**0.10**	0	**0.10**	**0.12**	18
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.01**	<0.01	0	**0.01**	**0.013**	26	**0.02**	**0.02**	0	**0.02**	**0.034**	52
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.01**	**0.01**	0	**0.01**	<0.010	0	**0.04**	**0.04**	0	**0.04**	**0.042**	5
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.050	0	<0.01	<0.01	0	<0.01	<0.050	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids														
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Sulfonamides														
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.10	0	<0.05	<0.05	0	<0.05	<0.10	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.50	0	<0.05	<0.05	0	<0.05	<0.50	0
PFAS														
Sum of PFHxS and PFOS	µg/L	0.01	**0.3**	**0.3**		**0.3**	**0.26**		**1.21**	**1.31**		**1.21**	**0.99**	
Sum of PFAS (WA DER List)	µg/L	0.05	**0.36**	**0.33**		**0.36**	**0.32**		**1.44**	**1.52**		**1.44**	**1.3**	
Sum of PFAS	µg/L	0.1	**0.38**	**0.35**		**0.38**	**0.35**		**1.49**	**1.57**		**1.49**	**1.3**	

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

Bandiana Military Area
May 2025 OMP
Table 3: RPD Summary Table

		Project ID	VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a		VIC_0445_PFASOMP_24a	VIC_0445_PFASOMP_24a	
		Location Code	SW323	SW323		SW323	SW323		SW470	SW470		SW470	SW470	
		Field ID	0445_SW323_250527	0445_QC101_250527		0445_SW323_250527	0445_QC201_250527		0445_SW470_250528	0445_QC101_250528		0445_SW470_250528	0445_QC201_250528	
		Date	27 May 2025	27 May 2025		27 May 2025	27 May 2025		28 May 2025	28 May 2025		28 May 2025	28 May 2025	
		Lab Report Number	1226670	1226670		1226670	MGF0019		1226670	1226670		1226670	MGF0019	
		Sample Type	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD	Normal	Intra-Lab	RPD	Normal	Inter-Lab	RPD
	Unit	LOR												
PFAS - Perfluoroalkyl Sulfonic Acids														
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.03**	**0.02**	40	**0.03**	**0.040**	29	**0.03**	**0.03**	0	**0.03**	**0.039**	26
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.024**	18	**0.02**	**0.02**	0	**0.02**	**0.027**	30
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.16**	**0.21**	27	**0.16**	**0.25**	44	**0.18**	**0.17**	6	**0.18**	**0.23**	24
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	*<0.01*	**0.01**	0	*<0.01*	**0.012**	18	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.73**	**1.1**	40	**0.73**	**0.88**	19	**0.32**	**0.28**	13	**0.32**	**0.33**	3
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	-	-	*<0.01*	*<0.01*	0	*<0.01*	-	-
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids														
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.05**	**0.06**	18	**0.05**	**0.082**	48	**0.03**	*<0.01*	100	**0.03**	*<0.010*	100
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.07**	**0.06**	15	**0.07**	**0.049**	35	**0.01**	**0.02**	67	**0.01**	**0.012**	18
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.039**	64	*<0.01*	*<0.01*	0	*<0.01*	**0.010**	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.03**	**0.03**	0	**0.03**	**0.031**	3	*<0.01*	**0.01**	0	*<0.01*	*<0.010*	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	**0.010**	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.050*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.050*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids														
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides														
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.10*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.10*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.50*	0	*<0.05*	*<0.05*	0	*<0.05*	*<0.50*	0
PFAS														
Sum of PFHxS and PFOS	µg/L	0.01	**0.89**	**1.31**		**0.89**	**1.1**		**0.5**	**0.45**		**0.5**	**0.56**	
Sum of PFAS (WA DER List)	µg/L	0.05	**1.09**	**1.5**		**1.09**	**1.4**		**0.57**	**0.51**		**0.57**	**0.62**	
Sum of PFAS	µg/L	0.1	**1.13**	**1.55**		**1.13**	**1.4**		**0.6**	**0.54**		**0.6**	**0.65**	

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

Bandiana Military Area
May 2025 OMP
Table D2: Field Blanks Summary Table

					PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids											PFAS - (n:2) Fluorotelomer				PFAS - Perfluoroalkyl Sulfonamides							PFAS		
					Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Sum of PFAS
					µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
LOR					0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.1
Project ID	**Field ID**	**Date**	**Lab Report Number**	**Sample Type**																																
VIC_0445_PFASOMP_24a	0445_QC301_250512	12 May 2025	1221064	Rinsate	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC301_250513	13 May 2025	1221064	Rinsate	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC301_250514	14 May 2025	1221064	Rinsate	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC301_250515	15 May 2025	1221064	Rinsate	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250512	12 May 2025	1221064	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250513	13 May 2025	1221064	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250514	14 May 2025	1221064	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250515	15 May 2025	1221064	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250527	27 May 2025	1226670	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250528	28 May 2025	1226670	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC401_250529	29 May 2025	1226670	Field_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC501_250515	15 May 2025	1221064	Trip_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
VIC_0445_PFASOMP_24a	0445_QC501_250527	27 May 2025	1226670	Trip_B	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1

Appendix E Equipment Calibration Records

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Multi Parameter Water Meter 345.0 852025M

Instrument **YSI Pro Plus**
Serial No. **10G100832**

airmet
Air-Met Scientific Pty Ltd
1800 000 744

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0%		391223	0%
2. Conductivity		2760µS		401089	2760µS
3. pH7		pH 7		399304	pH 7
4. pH4		pH 4		399527	pH 4
5. Temp °C		17.8°C		MultTherm	17.8°C
6. ORP mV		238.84mV		MultTherm	238.84mV

Calibrated by: [redacted]

Calibration date: **08-May-25**

Next calibration due: **04-Nov-25**

Oil / Water Interface Meter 8.0 752025M

Instrument **Solinst Interface Meter (30m)**
Serial No. **549765**

airmet
Air-Met Scientific Pty Ltd
1800 000 744

Item	Test	Pass	Comments
Battery	Compartment	✓	
	Capacity	✓	
Probe	Cleaned/Decon.	✓	
	Operation	✓	
Connectors	Condition	✓	
		✓	
Tape Check	Cleaned	✓	
	Checked for cuts	✓	
Instrument Test	At surface level	✓	

Certificate of Calibration

This is to certify that the above instrument has been cleaned and tested.

Calibrated by: [redacted]

Calibration date: **07/05/2025**

Next calibration due: **03/11/2025**

Multi Parameter Water Meter 8.0 852025M

Instrument **YSI Pro Quatro**
Serial No. **24L120464**

airmet
Air-Met Scientific Pty Ltd
1800 000 744

Item	Test	Pass	Comments
Battery	Charge Condition	✓	
	Fuses	✓	
	Capacity	✓	
Switch/keypad	Operation	✓	
Display	Intensity	✓	
	Operation (segments)	✓	
Grill Filter	Condition	✓	
	Seal	✓	
PCB	Condition	✓	
Connectors	Condition	✓	
Sensor	1. pH	✓	
	2. mV	✓	
	3. EC	✓	
	4. D.O	✓	
	5. Temp	✓	
Alarms	Beeper		
	Settings		
Software	Version		
Data logger	Operation		
Download	Operation		
Other tests:			

Certificate of Calibration

This is to certify that the above instrument has been calibrated to the following specifications:

Sensor	Serial no	Standard Solutions	Certified	Solution Bottle Number	Instrument Reading
1. D.O		0%		391223	0%
2. Conductivity		2760µS		401089	2760µS
3. pH7		pH 7		399304	pH 7
4. pH4		pH 4		399527	pH 4
5. Temp °C		17.8°C		MultTherm	17.8°C
6. ORP mV		238.84mV		MultTherm	238.84mV

Calibrated by: [redacted]

Calibration date: **08-May-25**

Next calibration due: **04-Nov-25**

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Field YSI Check and Decontamination

PROJECT NAME:	Bandiana Defence	PROJECT NO:	61395
FIELDWORK DATES:	27/5/25	SAMPLERS:	[redacted]
TYPE OF INVESTIGATION:	SW sampling	PROJECT MANA	[redacted]

CALIBRATION SUMMARY

EQUIPMENT (Serial Number):	21010175I
CALIBRATION STANDARD:	

Date/ Time	Parameter	READING	COMMENTS
27/5/25	Temperature (°C)	10.4	within parameters.
	Conductivity (uS/cm)	1969pm	
	pH (7)	7.00	
	pH (4)	4.01	
	ORP (mV)	254	
	DO (mg/L)	—	

DECONTAMINATION SUMMARY

EQUIPMENT:

1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

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Field YSI Check and Decontamination

PROJECT NAME:	Bandiana Defence	PROJECT NO:	61395
FIELDWORK DATES:	28/5/25	SAMPLERS:	[redacted]
TYPE OF INVESTIGATION:	SW Sampling	PROJECT MA	[redacted]

CALIBRATION SUMMARY

EQUIPMENT (Serial Number):	21D101751
CALIBRATION STANDARD:	

Date/ Time	Parameter	READING	COMMENTS
28/5/25	Temperature (°C)	8.4	within parameters. calibrated.
	Conductivity (uS/cm)	1968	
	pH (7)	7.00	
	pH (4)	4.00	
	ORP (mV)	259.52.	
	DO (mg/L)	105%	

DECONTAMINATION SUMMARY

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

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Field YSI Check and Decontamination

PROJECT NAME:	Bandiana.	PROJECT NO:	61395
FIELDWORK DATES:	29/5/25	SAMPLERS:	[redacted]
TYPE OF INVESTIGATION:	SW sampling	PROJECT MANA	[redacted]

CALIBRATION SUMMARY

EQUIPMENT (Serial Number):	210101751
CALIBRATION STANDARD:	

Date/ Time	Parameter	READING	COMMENTS
29/5/25	Temperature (°C)	12.4	within parameters
	Conductivity (uS/cm)	2075	"
	pH (7)	7.00	"
	pH (4)	4.0	"
	ORP (mV)	281.6	"
	DO (mg/L)	100%	"

DECONTAMINATION SUMMARY

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

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Field Equipment Calibration and Decontamination

PROJECT NAME: Bandiana	PROJECT NO: 61395
FIELDWORK DATES: 12/5 - 16/5	SAMPLERS: [redacted]
TYPE OF INVESTIGATION: GMP	PROJECT M[redacted]

CALIBRATION SUMMARY

EQUIPMENT: YSI, IP	
CALIBRATION STANDARD:	

DATE	TIME	DO(mg/L)	Temp(°c)	pH	EC(µS/cm)	ORP(mV)	Comments	pH
12/5	14:51	~~230mV~~ ✓	21.5	7.00/7.02 ✓	2500/2999 ✓	230.9 ✓	✓	4.00/4.02 ✓
13/5	7:34		11.1	7.01	2760	253.8	✓	4.00
14/5	7.44		20.9	7.00	2760	230.9	✓	4.01
15/5	8:22		21.2	7.00	2760	231.3		4.00

DECONTAMINATION SUMMARY

EQUIPMENT: YSI, IP

1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
2	Was excess soil removed by scraping, brushing or wiping with disposable towels?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA

WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS

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Appendix F Laboratory Certificates and Chain of Custody

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Chain of Custody

JBS&G

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana GMP
DATE NEEDED BY: Standard TAT
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: [redacted]

LABORATORY BATCH NO.:
SAMPLERS: [redacted]
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

#1226670
30/5/25

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_SW316_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW323_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW324_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW326_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW332_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW333_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW448_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW427_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW424_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW370_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW374_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW375_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW462_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW470_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW400_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW401_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC101_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC201_250527	Water	27/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC501_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC101_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC201_250528	Water	28/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250528	Water	28/5/25		1x PFAS bottle		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 30/5/25 OF: JBS[redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Vinam N DATE: 30/5 529PM OF: CE	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.1°C ON ICE
NAME: [redacted] DATE: 30/5/25 OF: [redacted]	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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2 of 2

Chain of Custody

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PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A	LABORATORY BATCH NO.:
PROJECT NAME: Bandiana OMP	SAMPLERS: [redacted]
DATE NEEDED BY: Standard 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 [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Forward to Envirolab with listed samples

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_QC201_250527	Water	27/5/25		1 X PFAS Bottle		X				
0445_QC201_250528	Water	28/5/25		1 X PFAS Bottle		X				
SW388_250529	water	29/5/25		1x PFAS Bottle		x				
QC401_250529	water	29/5/25		1x PFAS Bottle		x				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: ~~16/5/25~~ 30/5/25 OF: JBS	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME: [redacted] DATE: 30/5/25 OF: [redacted]	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

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana OMP
DATE NEEDED BY: Standard TAT
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: [redacted]

LABORATORY BATCH NO.:
SAMPLERS: [redacted]
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

#1226670
30/5/25

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_SW316_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW323_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW324_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW326_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW332_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW333_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW448_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW427_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW424_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW370_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW374_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW375_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW462_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW470_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW400_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW401_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC101_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC201_250527	Water	27/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC501_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC101_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC201_250528	Water	28/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250528	Water	28/5/25		1x PFAS bottle		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 30/5/25 OF: JBS[redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: VINAM N DATE: 30/5 5:29PM OF: CE	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.1°C ON ICE
NAME: [redacted] DATE: 30/5/25 OF: [redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

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Chain of Custody

JBS&G

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana OMP
DATE NEEDED BY: Standard TAT
LABORATORY BATCH NO.:
SAMPLERS: [redacted]
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: [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Forward to Envirolab with listed samples

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level			Hold												TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_QC201_250527	Water	27/5/25		1 X PFAS Bottle		X																	
0445_QC201_250528	Water	28/5/25		1 X PFAS Bottle		X																	
SW388_250529	water	29/5/25		1x PFAS Bottle		x																	
QC401_250529	water	29/5/25		1x PFAS Bottle		x																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAM[redacted] DATE: ~~16/5/25~~ 30/5/25 OF: J[redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAM[redacted] DATE: 30/5/25 OF: [redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C

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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
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

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+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

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Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (VIC) P/L
Contact name:	[redacted]
Project name:	Bandiana OMP
Project ID:	VIC_0445_PFASOMP_24A
Turnaround time:	5 Day
Date/Time received	May 30, 2025 5:29 PM
Eurofins reference	1226670

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 : 5.1 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✓ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[redacted] **or by email:** [redacted]

Results will be delivered electronically via email to J[redacted]

Note: A copy of these results will also be delivered to the general JBS & G Australia (VIC) P/L email address.

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web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

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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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+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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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

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
External Laboratory						X	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	0445_QC201_250527	May 27, 2025		Water	M25-My0090595	X	
2	0445_QC201_250528	May 28, 2025		Water	M25-My0090596	X	
3	0445_SW316_250527	May 27, 2025		Water	M25-My0090597		X
4	0445_SW323_250527	May 27, 2025		Water	M25-My0090598		X
5	0445_SW324_250527	May 27, 2025		Water	M25-My0090599		X
6	0445_SW326_250527	May 27, 2025		Water	M25-My0090600		X
7	0445_SW332_250527	May 27, 2025		Water	M25-My0090601		X
8	0445_SW333_250527	May 27, 2025		Water	M25-My0090602		X
9	0445_SW448_	May 27, 2025		Water	M25-My0090603		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
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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Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
	250527						
10	0445_SW427_250527	May 27, 2025		Water	M25-My0090604		X
11	0445_SW424_250527	May 27, 2025		Water	M25-My0090605		X
12	0445_SW370_250528	May 28, 2025		Water	M25-My0090606		X
13	0445_SW374_250528	May 28, 2025		Water	M25-My0090607		X
14	0445_SW375_250528	May 28, 2025		Water	M25-My0090608		X
15	0445_SW462_250528	May 28, 2025		Water	M25-My0090609		X
16	0445_SW470_250528	May 28, 2025		Water	M25-My0090610		X
17	0445_SW400_250528	May 28, 2025		Water	M25-My0090611		X
18	0445_SW401_250528	May 28, 2025		Water	M25-My0090612		X
19	0445_QC101_	May 27, 2025		Water	M25-My0090613		X

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web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
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VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
19	0445_QC101_250527	May 27, 2025		Water	M25-My0090613		
20	0445_QC401_250527	May 27, 2025		Water	M25-My0090614		X
21	0445_QC501_250527	May 27, 2025		Water	M25-My0090615		X
22	0445_QC101_250528	May 28, 2025		Water	M25-My0090616		X
23	0445_QC401_250528	May 28, 2025		Water	M25-My0090617		X
24	0445_SW388_250529	May 29, 2025		Water	M25-My0090618		X
25	0445_QC401_250529	May 29, 2025		Water	M25-My0090619		X
Test Counts						2	23

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (VIC) P/L
PO Box 3166
Norwood
SA 5067

Attention: [redacted]

Report **1226670-W**
Project name Bandiana OMP
Project ID VIC_0445_PFASOMP_24A
Received Date May 30, 2025

Client Sample ID			**0445_SW316_250527**	**0445_SW323_250527**	**0445_SW324_250527**	**0445_SW326_250527**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M25-My0090597**	**M25-My0090598**	**M25-My0090599**	**M25-My0090600**
Date Sampled			**May 27, 2025**	**May 27, 2025**	**May 27, 2025**	**May 27, 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	0.05	0.06	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	0.07	0.06	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	0.02	0.02	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	[N09]0.03	[N09]0.04	< 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	%	59	75	75	78
13C5-PFPeA (surr.)	1	%	81	84	91	85
13C5-PFHxA (surr.)	1	%	77	82	89	81
13C4-PFHpA (surr.)	1	%	78	84	86	81
13C8-PFOA (surr.)	1	%	81	84	91	85
13C5-PFNA (surr.)	1	%	73	72	75	74
13C6-PFDA (surr.)	1	%	65	69	63	71
13C2-PFUnDA (surr.)	1	%	55	55	50	56
13C2-PFDoDA (surr.)	1	%	53	95	93	53
13C2-PFTeDA (surr.)	1	%	65	71	72	57
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	%	109	111	114	101
D3-N-MeFOSA (surr.)	1	%	82	80	53	62

Client Sample ID			0445_SW316_250527	0445_SW323_250527	0445_SW324_250527	0445_SW326_250527
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090597	M25-My0090598	M25-My0090599	M25-My0090600
Date Sampled			May 27, 2025	May 27, 2025	May 27, 2025	May 27, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	71	67	60	60
D7-N-MeFOSE (surr.)	1	%	95	54	61	99
D9-N-EtFOSE (surr.)	1	%	91	100	53	92
D5-N-EtFOSAA (surr.)	1	%	88	87	76	95
D3-N-MeFOSAA (surr.)	1	%	102	96	90	123
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	0.03	0.02	< 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	0.02	0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	[N09]0.02	[N09]0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.04	[N09]0.16	[N09]0.19	[N09]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	[N09]0.43	[N09]0.73	[N09]0.68	[N09]0.07
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	73	79	87	84
18O2-PFHxS (surr.)	1	%	77	86	92	87
13C8-PFOS (surr.)	1	%	77	79	78	85
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	%	142	115	125	108
13C2-6:2 FTSA (surr.)	1	%	82	88	84	80
13C2-8:2 FTSA (surr.)	1	%	116	93	106	102
13C2-10:2 FTSA (surr.)	1	%	84	65	71	81
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.47	0.89	0.87	0.08
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.43	0.76	0.72	0.07
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.47	0.92	0.91	0.08
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.47	1.09	1.07	0.08
Sum of PFASs (n=30)*	0.1	ug/L	0.47	1.13	1.1	< 0.1

Client Sample ID			0445_SW332_250527	0445_SW333_250527	0445_SW448_250527	0445_SW427_250527
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090601	M25-My0090602	M25-My0090603	M25-My0090604
Date Sampled			May 27, 2025	May 27, 2025	May 27, 2025	May 27, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	0.05	0.14	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.01	0.10	0.16	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.02	0.66	0.28	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	[N09]0.06	[N09]0.04	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	[N09]0.08	[N09]0.07	< 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	%	93	87	66	66
13C5-PFPeA (surr.)	1	%	78	77	67	80
13C5-PFHxA (surr.)	1	%	78	66	62	75
13C4-PFHpA (surr.)	1	%	73	67	63	69
13C8-PFOA (surr.)	1	%	72	67	60	70
13C5-PFNA (surr.)	1	%	97	86	74	89
13C6-PFDA (surr.)	1	%	87	73	69	78
13C2-PFUnDA (surr.)	1	%	67	53	50	60
13C2-PFDoDA (surr.)	1	%	61	44	41	43
13C2-PFTeDA (surr.)	1	%	25	21	19	21
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	%	101	85	79	86
D3-N-MeFOSA (surr.)	1	%	43	37	29	40
D5-N-EtFOSA (surr.)	1	%	45	38	34	40
D7-N-MeFOSE (surr.)	1	%	35	24	29	29
D9-N-EtFOSE (surr.)	1	%	29	23	24	26
D5-N-EtFOSAA (surr.)	1	%	86	66	63	70
D3-N-MeFOSAA (surr.)	1	%	108	73	64	87
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.01	0.36	0.14	< 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	0.15	0.17	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	[N09]0.29	[N09]0.06	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.03	[N09]1.3	[N09]0.66	[N09]0.02
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	[N09]0.08	[N09]0.03	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.03	[N09]1.7	[N09]1.2	[N09]0.05
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_SW332_250527	0445_SW333_250527	0445_SW448_250527	0445_SW427_250527
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090601	M25-My0090602	M25-My0090603	M25-My0090604
Date Sampled			May 27, 2025	May 27, 2025	May 27, 2025	May 27, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	75	69	64	73
18O2-PFHxS (surr.)	1	%	70	60	56	69
13C8-PFOS (surr.)	1	%	82	67	59	73
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	%	98	91	85	98
13C2-6:2 FTSA (surr.)	1	%	78	79	61	80
13C2-8:2 FTSA (surr.)	1	%	146	96	94	96
13C2-10:2 FTSA (surr.)	1	%	74	51	48	52
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	3	1.86	0.07
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.03	1.78	1.27	0.05
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.06	3.08	1.93	0.07
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.1	4.31	2.69	0.07
Sum of PFASs (n=30)*	0.1	ug/L	0.11	4.83	2.95	< 0.1

Client Sample ID			0445_SW424_250527	0445_SW370_250528	0445_SW374_250528	0445_SW375_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090605	M25-My0090606	M25-My0090607	M25-My0090608
Date Sampled			May 27, 2025	May 28, 2025	May 28, 2025	May 28, 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	0.05	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.08	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.03	< 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	%	92	64	110	112
13C5-PFPeA (surr.)	1	%	79	81	111	116
13C5-PFHxA (surr.)	1	%	75	75	101	106
13C4-PFHpA (surr.)	1	%	71	69	108	114
13C8-PFOA (surr.)	1	%	68	70	99	108
13C5-PFNA (surr.)	1	%	84	91	103	106
13C6-PFDA (surr.)	1	%	71	74	75	76

Client Sample ID			0445_SW424_250527	0445_SW370_250528	0445_SW374_250528	0445_SW375_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090605	M25-My0090606	M25-My0090607	M25-My0090608
Date Sampled			May 27, 2025	May 28, 2025	May 28, 2025	May 28, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	55	52	61	55
13C2-PFDoDA (surr.)	1	%	47	44	58	53
13C2-PFTeDA (surr.)	1	%	17	12	83	63
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	%	94	92	77	90
D3-N-MeFOSA (surr.)	1	%	42	38	72	34
D5-N-EtFOSA (surr.)	1	%	41	38	71	30
D7-N-MeFOSE (surr.)	1	%	38	31	50	37
D9-N-EtFOSE (surr.)	1	%	32	25	43	34
D5-N-EtFOSAA (surr.)	1	%	68	62	68	68
D3-N-MeFOSAA (surr.)	1	%	76	79	61	71
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.03	< 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	[N09]0.03	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.32	[N09]0.02	[N09]0.02	[N09]0.02
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.79	[N09]0.07	[N09]0.06	[N09]0.06
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	78	76	114	115
18O2-PFHxS (surr.)	1	%	72	72	115	133
13C8-PFOS (surr.)	1	%	70	76	101	111
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	%	98	93	119	143
13C2-6:2 FTSA (surr.)	1	%	82	75	92	99
13C2-8:2 FTSA (surr.)	1	%	96	102	117	111
13C2-10:2 FTSA (surr.)	1	%	46	45	70	53

Client Sample ID			0445_SW424_250527	0445_SW370_250528	0445_SW374_250528	0445_SW375_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090605	M25-My0090606	M25-My0090607	M25-My0090608
Date Sampled			May 27, 2025	May 28, 2025	May 28, 2025	May 28, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	1.11	0.09	0.08	0.08
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.82	0.07	0.06	0.06
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	1.14	0.09	0.08	0.08
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.32	0.14	0.08	0.08
Sum of PFASs (n=30)*	0.1	ug/L	1.38	0.14	< 0.1	< 0.1

Client Sample ID			0445_SW462_250528	0445_SW470_250528	0445_SW400_250528	0445_SW401_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090609	M25-My0090610	M25-My0090611	M25-My0090612
Date Sampled			May 28, 2025	May 28, 2025	May 28, 2025	May 28, 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	0.03	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	%	61	118	113	105
13C5-PFPeA (surr.)	1	%	77	128	114	120
13C5-PFHxA (surr.)	1	%	74	122	103	109
13C4-PFHpA (surr.)	1	%	72	130	100	110
13C8-PFOA (surr.)	1	%	74	122	100	93
13C5-PFNA (surr.)	1	%	61	118	112	108
13C6-PFDA (surr.)	1	%	53	97	77	63
13C2-PFUnDA (surr.)	1	%	65	80	57	49
13C2-PFDoDA (surr.)	1	%	82	78	60	53
13C2-PFTeDA (surr.)	1	%	65	101	116	66
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	%	82	102	90	86

Client Sample ID			0445_SW462_250528	0445_SW470_250528	0445_SW400_250528	0445_SW401_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090609	M25-My0090610	M25-My0090611	M25-My0090612
Date Sampled			May 28, 2025	May 28, 2025	May 28, 2025	May 28, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	82	46	80	64
D5-N-EtFOSA (surr.)	1	%	83	48	81	66
D7-N-MeFOSE (surr.)	1	%	66	42	60	48
D9-N-EtFOSE (surr.)	1	%	68	39	46	41
D5-N-EtFOSAA (surr.)	1	%	70	82	73	57
D3-N-MeFOSAA (surr.)	1	%	91	77	59	48
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	0.03	< 0.01	0.02
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	[N09]0.02	< 0.01	[N09]0.02
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.01	[N09]0.18	[N09]0.04	[N09]0.12
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.02	[N09]0.32	[N09]0.06	[N09]0.13
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	75	116	119	122
18O2-PFHxS (surr.)	1	%	75	133	129	121
13C8-PFOS (surr.)	1	%	70	107	96	87
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	%	103	103	126	139
13C2-6:2 FTSA (surr.)	1	%	76	146	148	85
13C2-8:2 FTSA (surr.)	1	%	71	88	110	91
13C2-10:2 FTSA (surr.)	1	%	54	78	64	62
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.03	0.5	0.1	0.25
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.02	0.32	0.06	0.13
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.03	0.5	0.1	0.25
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	0.57	0.11	0.28
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	0.6	0.11	0.3

Client Sample ID			0445_QC101_250527	0445_QC401_250527	0445_QC501_250527	0445_QC101_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090613	M25-My0090614	M25-My0090615	M25-My0090616
Date Sampled			May 27, 2025	May 27, 2025	May 27, 2025	May 28, 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	0.06	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.06	< 0.01	< 0.01	0.02
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.03	< 0.01	< 0.01	[N09]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	%	111	116	116	77
13C5-PFPeA (surr.)	1	%	114	97	98	83
13C5-PFHxA (surr.)	1	%	110	88	84	81
13C4-PFHpA (surr.)	1	%	112	90	93	77
13C8-PFOA (surr.)	1	%	99	103	108	74
13C5-PFNA (surr.)	1	%	104	117	128	99
13C6-PFDA (surr.)	1	%	68	74	73	77
13C2-PFUnDA (surr.)	1	%	52	72	70	56
13C2-PFDoDA (surr.)	1	%	47	80	79	42
13C2-PFTeDA (surr.)	1	%	53	94	95	20
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	%	88	95	104	89
D3-N-MeFOSA (surr.)	1	%	67	54	59	32
D5-N-EtFOSA (surr.)	1	%	57	51	54	41
D7-N-MeFOSE (surr.)	1	%	46	63	70	28
D9-N-EtFOSE (surr.)	1	%	34	57	56	28
D5-N-EtFOSAA (surr.)	1	%	61	79	81	73
D3-N-MeFOSAA (surr.)	1	%	58	64	69	86
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	0.03
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.02	< 0.01	< 0.01	0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.02	< 0.01	< 0.01	[N09]0.02
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.21	< 0.01	< 0.01	[N09]0.17
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.01	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]1.1	< 0.01	< 0.01	[N09]0.28
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_QC101_250527	0445_QC401_250527	0445_QC501_250527	0445_QC101_250528
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0090613	M25-My0090614	M25-My0090615	M25-My0090616
Date Sampled			May 27, 2025	May 27, 2025	May 27, 2025	May 28, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	114	100	102	79
18O2-PFHxS (surr.)	1	%	121	121	126	70
13C8-PFOS (surr.)	1	%	72	104	105	76
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	%	76	105	99	134
13C2-6:2 FTSA (surr.)	1	%	88	121	148	80
13C2-8:2 FTSA (surr.)	1	%	99	99	101	134
13C2-10:2 FTSA (surr.)	1	%	48	80	77	49
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	1.31	< 0.01	< 0.01	0.45
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	1.13	< 0.01	< 0.01	0.29
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	1.34	< 0.01	< 0.01	0.46
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.5	< 0.05	< 0.05	0.51
Sum of PFASs (n=30)*	0.1	ug/L	1.55	< 0.1	< 0.1	0.54

Client Sample ID			0445_QC401_250528	0445_SW388_250529	0445_QC401_250529
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M25-My0090617	M25-My0090618	M25-My0090619
Date Sampled			May 28, 2025	May 29, 2025	May 29, 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
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	%	116	130	116
13C5-PFPeA (surr.)	1	%	97	119	96
13C5-PFHxA (surr.)	1	%	85	111	82
13C4-PFHpA (surr.)	1	%	88	108	88
13C8-PFOA (surr.)	1	%	104	111	108
13C5-PFNA (surr.)	1	%	117	104	113
13C6-PFDA (surr.)	1	%	74	68	73

Client Sample ID			0445_QC401_250528	0445_SW388_250529	0445_QC401_250529
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M25-My0090617	M25-My0090618	M25-My0090619
Date Sampled			May 28, 2025	May 29, 2025	May 29, 2025
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
13C2-PFUnDA (surr.)	1	%	65	52	65
13C2-PFDoDA (surr.)	1	%	79	61	73
13C2-PFTeDA (surr.)	1	%	74	70	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	%	96	89	96
D3-N-MeFOSA (surr.)	1	%	26	62	74
D5-N-EtFOSA (surr.)	1	%	26	63	58
D7-N-MeFOSE (surr.)	1	%	49	45	65
D9-N-EtFOSE (surr.)	1	%	43	38	93
D5-N-EtFOSAA (surr.)	1	%	78	63	84
D3-N-MeFOSAA (surr.)	1	%	69	53	65
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	< 0.01	[N09]0.02	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	[N09]0.03	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	105	127	98
18O2-PFHxS (surr.)	1	%	122	138	114
13C8-PFOS (surr.)	1	%	107	95	101
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	0.35	< 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	%	96	105	93
13C2-6:2 FTSA (surr.)	1	%	119	84	117
13C2-8:2 FTSA (surr.)	1	%	91	102	102
13C2-10:2 FTSA (surr.)	1	%	74	60	79

Client Sample ID			0445_QC401_250528	0445_SW388_250529	0445_QC401_250529
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M25-My0090617	M25-My0090618	M25-My0090619
Date Sampled			May 28, 2025	May 29, 2025	May 29, 2025
Test/Reference	LOR	Unit			
PFASs Summations					
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.05	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	0.03	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	0.05	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	0.41	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	0.41	< 0.1

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)	Melbourne	Jun 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Jun 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Jun 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Jun 02, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

eurofins

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
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Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
External Laboratory						X	
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**		
1	0445_QC201_250527	May 27, 2025		Water	M25-My0090595	X	
2	0445_QC201_250528	May 28, 2025		Water	M25-My0090596	X	
3	0445_SW316_250527	May 27, 2025		Water	M25-My0090597		X
4	0445_SW323_250527	May 27, 2025		Water	M25-My0090598		X
5	0445_SW324_250527	May 27, 2025		Water	M25-My0090599		X
6	0445_SW326_250527	May 27, 2025		Water	M25-My0090600		X
7	0445_SW332_250527	May 27, 2025		Water	M25-My0090601		X
8	0445_SW333_250527	May 27, 2025		Water	M25-My0090602		X
9	0445_SW448_	May 27, 2025		Water	M25-My0090603		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
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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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Penrose	Mount Wellington	Rolleston	Gate Pa
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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

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
	250527						
10	0445_SW427_ 250527	May 27, 2025		Water	M25-My0090604		X
11	0445_SW424_ 250527	May 27, 2025		Water	M25-My0090605		X
12	0445_SW370_ 250528	May 28, 2025		Water	M25-My0090606		X
13	0445_SW374_ 250528	May 28, 2025		Water	M25-My0090607		X
14	0445_SW375_ 250528	May 28, 2025		Water	M25-My0090608		X
15	0445_SW462_ 250528	May 28, 2025		Water	M25-My0090609		X
16	0445_SW470_ 250528	May 28, 2025		Water	M25-My0090610		X
17	0445_SW400_ 250528	May 28, 2025		Water	M25-My0090611		X
18	0445_SW401_ 250528	May 28, 2025		Water	M25-My0090612		X
19	0445_QC101_	May 27, 2025		Water	M25-My0090613		X

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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NZBN: 9429046024954

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Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1226670
Phone: 03 9642 0599
Fax:

Received: May 30, 2025 5:29 PM
Due: Jun 6, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)
Melbourne Laboratory - NATA # 1261 Site # 1254							X
19	0445_QC101_250527	May 27, 2025		Water	M25-My0090613		
20	0445_QC401_250527	May 27, 2025		Water	M25-My0090614		X
21	0445_QC501_250527	May 27, 2025		Water	M25-My0090615		X
22	0445_QC101_250528	May 28, 2025		Water	M25-My0090616		X
23	0445_QC401_250528	May 28, 2025		Water	M25-My0090617		X
24	0445_SW388_250529	May 29, 2025		Water	M25-My0090618		X
25	0445_QC401_250529	May 29, 2025		Water	M25-My0090619		X
Test Counts						2	23

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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	98			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	95			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	106			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	117			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	119			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	69			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	106			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	110			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	105			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	82			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	81			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	93			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	99			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	86			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	101			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	104			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	126			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	83			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorohexanesulfonic acid (PFHxS)	%	90			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	101			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	79			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	94			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	132			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	97			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	101			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	105			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	104			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	99			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	104			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	99			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	118			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	81			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	102			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	109			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	96			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	100			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	99			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	109			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	95			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	118			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	87			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	94			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	104			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	89			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	142			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	122			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)	M25-My0090599	CP	%	100			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0090599	CP	%	71			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0090599	CP	%	121			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0090599	CP	%	114			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0090599	CP	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0090599	CP	%	113			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0090599	CP	%	115			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0090599	CP	%	127			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0090599	CP	%	107			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0090599	CP	%	62			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0090599	CP	%	125			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0090599	CP	%	108			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0090599	CP	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0090599	CP	%	99			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0090599	CP	%	92			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0090599	CP	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0090599	CP	%	96			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0090599	CP	%	113			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0090599	CP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0090599	CP	%	94			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0090599	CP	%	114			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0090599	CP	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0090599	CP	%	90			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0090599	CP	%	117			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0090599	CP	%	60			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-My0090599	CP	%	102			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0090599	CP	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0090599	CP	%	102			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0090599	CP	%	120			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-My0090619	CP	%	99			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0090619	CP	%	96			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0090619	CP	%	103			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0090619	CP	%	102			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0090619	CP	%	94			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0090619	CP	%	107			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0090619	CP	%	101			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0090619	CP	%	116			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0090619	CP	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0090619	CP	%	78			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0090619	CP	%	113			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0090619	CP	%	96			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0090619	CP	%	80			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0090619	CP	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0090619	CP	%	101			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0090619	CP	%	92			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0090619	CP	%	100			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0090619	CP	%	114			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0090619	CP	%	94			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0090619	CP	%	104			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0090619	CP	%	117			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0090619	CP	%	90			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0090619	CP	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0090619	CP	%	108			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0090619	CP	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0090619	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)	M25-My0090619	CP	%	82			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0090619	CP	%	114			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0090619	CP	%	100			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0090619	CP	%	114			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)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0090597	CP	ug/L	0.04	0.04	10	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0090597	CP	ug/L	0.43	0.32	29	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0090597	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0090597	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0090610	CP	ug/L	0.03	0.03	2.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0090610	CP	ug/L	0.01	0.01	11	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0090610	CP	ug/L	0.03	0.02	21	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0090610	CP	ug/L	0.01	< 0.01	23	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0090610	CP	ug/L	0.02	0.02	5.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0090610	CP	ug/L	0.18	0.17	6.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0090610	CP	ug/L	0.32	0.26	21	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0090610	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0090610	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0090618	CP	ug/L	0.01	< 0.01	30	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0090618	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0090618	CP	ug/L	0.02	0.02	13	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0090618	CP	ug/L	0.03	0.02	36	30%	Fail	Q15
Perfluorodecanesulfonic acid (PFDS)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0090618	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
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:

[redacted]

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A	LABORATORY BATCH NO.:
PROJECT NAME: Bandiana OMP	SAMPLERS: [redacted]
DATE NEEDED BY: Standard 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 [redacted]	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	PFAS Full – Trace Level		Hold												TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_OTH019_250512	Water	12/5/25	PM	1 X PFAS Bottle			X																
0445_MW415_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW411_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW412_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW414_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW361_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW360_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW447_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW356_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_MW357_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_SW409_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW404_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW412_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW393_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW390_250513	Water	13/5/25	PM	1 X PFAS Bottle			X																
0445_SW487_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW397_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW398_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW395_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW387_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
0445_SW416_250514	Water	14/5/25	PM	1 X PFAS Bottle			X																
0445_SW430_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_SW431_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_SW432_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
0445_SW434_250514	Water	15/5/25	PM	1 X PFAS Bottle		X																	

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Chain of Custody

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0445_SW382_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_SW349_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_SW355_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_SW346_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_SW338_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_SW336_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_QC101_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																				
0445_QC201_250513	Water	13/5/25	PM	1 X PFAS Bottle																						Forward to Envirolab
0445_QC102_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																				
0445_QC202_250513	Water	13/5/25	PM	1 X PFAS Bottle																						Forward to Envirolab
0445_QC101_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																				
0445_QC201_250514	Water	14/5/25	PM	1 X PFAS Bottle																						Forward to Envirolab
0445_QC101_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_QC201_250515	Water	15/5/25	PM	1 X PFAS Bottle																						Forward to Envirolab
0445_QC301_250512	Water	12/5/25	PM	1 X PFAS Bottle		X																				
0445_QC301_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																				
0445_QC301_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																				
0445_QC301_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_QC401_250512	Water	12/5/25	PM	1 X PFAS Bottle		X																				
0445_QC401_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																				
0445_QC401_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																				
0445_QC401_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_QC501_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																				
0445_QC502_250515	Water	15/5/25	PM	1 X PFAS Bottle					X																	
0445_QC503_250515	Water	15/5/25	PM	1 X PFAS Bottle					X																	

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matt Axisa DATE: 16/5/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Declan DATE: 16/5 17:20 OF: Eurofins	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 6.4
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

4 Rinse

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Chain of Custody

JBS&G

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana OMP
DATE NEEDED BY: Standard TAT
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: [redacted]

LABORATORY BATCH NO.:
SAMPLERS: [redacted]
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Forward to Envirolab with listed samples

LS EL (7)

COPY

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_QC201_250513	Water	13/5/25	PM	1 X PFAS Bottle		X				
0445_QC202_250513	Water	13/5/25	PM	1 X PFAS Bottle		X				
0445_QC201_250514	Water	14/5/25	PM	1 X PFAS Bottle		X				
0445_QC201_250515	Water	15/5/25	PM	1 X PFAS Bottle		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matt Axisa DATE: 16/5/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 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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Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd

NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
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Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Sample Receipt Advice

Company name:	JBS & G Australia (VIC) P/L
Contact name:	[redacted]
Project name:	Bandiana OMP
Project ID:	VIC_0445_PFASOMP_24A
Turnaround time:	5 Day
Date/Time received	May 16, 2025 5:20 PM
Eurofins reference	1221064

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 : 6.4 degrees Celsius.
- ✓ All samples have been received as described on the above COC.
- ✓ COC has been completed correctly.
- ✓ Attempt to chill was evident.
- ✓ Appropriately preserved sample containers have been used.
- ✓ All samples were received in good condition.
- ✓ Samples have been provided with adequate time to commence analysis in accordance with the relevant holding times.
- ✓ Appropriate sample containers have been used.
- ✓ Sample containers for volatile analysis received with zero headspace.
- ✓ Split sample sent to requested external lab.
- ✗ Some samples have been subcontracted.
- N/A Custody Seals intact (if used).

Notes

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

[redacted]

Results will be delivered electronically via email to [redacted].

Note: A copy of these results will also be delivered to the general JBS & G Australia (VIC) P/L email address.

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email: EnviroSales@eurofinsanz.com

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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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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	0445_OTH019_250512	May 12, 2025		Water	M25-My0049134			X
2	0445_MW415_250514	May 14, 2025		Water	M25-My0049135		X	
3	0445_MW411_250514	May 14, 2025		Water	M25-My0049136		X	
4	0445_MW412_250514	May 14, 2025		Water	M25-My0049137		X	
5	0445_MW414_250514	May 14, 2025		Water	M25-My0049138		X	
6	0445_MW361_250514	May 14, 2025		Water	M25-My0049139		X	
7	0445_MW360_250514	May 14, 2025		Water	M25-My0049140		X	
8	0445_MW447_250514	May 14, 2025		Water	M25-My0049141		X	
9	0445_MW356	May 14, 2025		Water	M25-My0049142		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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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
	_250514							
10	0445_MW357_250514	May 14, 2025		Water	M25-My0049143		X	
11	0445_SW409_250513	May 13, 2025		Water	M25-My0049144		X	
12	0445_SW404_250513	May 13, 2025		Water	M25-My0049145		X	
13	0445_SW412_250513	May 13, 2025		Water	M25-My0049146		X	
14	0445_SW393_250513	May 13, 2025		Water	M25-My0049147		X	
15	0445_SW390_250513	May 13, 2025		Water	M25-My0049148			X
16	0445_SW487_250513	May 13, 2025		Water	M25-My0049149		X	
17	0445_SW397_250513	May 13, 2025		Water	M25-My0049150		X	
18	0445_SW398_250513	May 13, 2025		Water	M25-My0049151		X	
19	0445_SW395_	May 13, 2025		Water	M25-My0049152		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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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
19	0445_SW395_250513	May 13, 2025		Water	M25-My0049152			
20	0445_SW387_250513	May 13, 2025		Water	M25-My0049153		X	
21	0445_SW416_250514	May 14, 2025		Water	M25-My0049154			X
22	0445_SW430_250514	May 14, 2025		Water	M25-My0049155		X	
23	0445_SW431_250514	May 14, 2025		Water	M25-My0049156		X	
24	0445_SW432_250514	May 14, 2025		Water	M25-My0049157		X	
25	0445_SW434_250514	May 15, 2025		Water	M25-My0049158		X	
26	0445_SW382_250515	May 15, 2025		Water	M25-My0049159		X	
27	0445_SW349_250515	May 15, 2025		Water	M25-My0049160		X	
28	0445_SW355_250515	May 15, 2025		Water	M25-My0049161		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
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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NATA# 2377
Site# 2370 & 2554

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Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
29	0445_SW346_250515	May 15, 2025		Water	M25-My0049162		X	
30	0445_SW338_250515	May 15, 2025		Water	M25-My0049163		X	
31	0445_SW336_250515	May 15, 2025		Water	M25-My0049164		X	
32	0445_QC101_250513	May 13, 2025		Water	M25-My0049165		X	
33	0445_QC102_250513	May 13, 2025		Water	M25-My0049166		X	
34	0445_QC101_250514	May 14, 2025		Water	M25-My0049167		X	
35	0445_QC101_250515	May 15, 2025		Water	M25-My0049168		X	
36	0445_QC301_250512	May 12, 2025		Water	M25-My0049169		X	
37	0445_QC301_250513	May 13, 2025		Water	M25-My0049170		X	
38	0445_QC301_250514	May 14, 2025		Water	M25-My0049171		X	

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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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Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
39	0445_QC301_250515	May 15, 2025		Water	M25-My0049172		X	
40	0445_QC401_250512	May 12, 2025		Water	M25-My0049173		X	
41	0445_QC401_250513	May 13, 2025		Water	M25-My0049174		X	
42	0445_QC401_250514	May 14, 2025		Water	M25-My0049175		X	
43	0445_QC401_250515	May 15, 2025		Water	M25-My0049176		X	
44	0445_QC501_250515	May 15, 2025		Water	M25-My0049177		X	
45	0445_QC502_250515	May 15, 2025		Water	M25-My0049178	X		
46	0445_QC503_250515	May 15, 2025		Water	M25-My0049179	X		
Test Counts						2	41	3

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Certificate of Analysis

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

JBS & G Australia (VIC) P/L
PO Box 3166
Norwood
SA 5067

Attention: [redacted]

Report **1221064-W**
Project name Bandiana OMP
Project ID VIC_0445_PFASOMP_24A
Received Date May 16, 2025

Client Sample ID			**0445_OTH019_250512**	**0445_MW415_250514**	**0445_MW411_250514**	**0445_MW412_250514**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M25-My0049134**	**M25-My0049135**	**M25-My0049136**	**M25-My0049137**
Date Sampled			**May 12, 2025**	**May 14, 2025**	**May 14, 2025**	**May 14, 2025**
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	0.36	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	0.367	-	-	-
Sum of PFASs (n=30)*	0.005	ug/L	0.442	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	0.127	-	-	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	0.403	-	-	-
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	< 0.005	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	< 0.005	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	< 0.005	-	-	-
13C8-FOSA (surr.)	1	%	96	-	-	-
D3-N-MeFOSA (surr.)	1	%	136	-	-	-
D5-N-EtFOSA (surr.)	1	%	136	-	-	-
D7-N-MeFOSE (surr.)	1	%	190	-	-	-
D9-N-EtFOSE (surr.)	1	%	137	-	-	-
D5-N-EtFOSAA (surr.)	1	%	72	-	-	-
D3-N-MeFOSAA (surr.)	1	%	73	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	0.007	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	0.001	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	0.012	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	[N09]0.002	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	[N09]0.007	-	-	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	< 0.001	-	-	-

Client Sample ID			0445_OTH019_250512	0445_MW415_250514	0445_MW411_250514	0445_MW412_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049134	M25-My0049135	M25-My0049136	M25-My0049137
Date Sampled			May 12, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	< 0.001	-	-	-
13C4-PFBA (surr.)	1	%	135	-	-	-
13C5-PFPeA (surr.)	1	%	130	-	-	-
13C5-PFHxA (surr.)	1	%	81	-	-	-
13C4-PFHpA (surr.)	1	%	92	-	-	-
13C8-PFOA (surr.)	1	%	74	-	-	-
13C5-PFNA (surr.)	1	%	92	-	-	-
13C6-PFDA (surr.)	1	%	76	-	-	-
13C2-PFUnDA (surr.)	1	%	83	-	-	-
13C2-PFDoDA (surr.)	1	%	105	-	-	-
13C2-PFTeDA (surr.)	1	%	93	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	[N09]0.014	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	0.005	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	[N09]0.024	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	[N09]0.24	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	[N09]0.010	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	[N09]0.12	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	< 0.001	-	-	-
13C3-PFBS (surr.)	1	%	92	-	-	-
18O2-PFHxS (surr.)	1	%	80	-	-	-
13C8-PFOS (surr.)	1	%	75	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	< 0.005	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
13C2-4:2 FTSA (surr.)	1	%	48	-	-	-
13C2-6:2 FTSA (surr.)	1	%	57	-	-	-
13C2-8:2 FTSA (surr.)	1	%	88	-	-	-
13C2-10:2 FTSA (surr.)	1	%	76	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	0.25	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	0.39	0.02	0.04
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	1.4	0.09	0.19
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	[N09]0.23	[N09]0.02	[N09]0.04
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	[N09]0.49	[N09]0.04	[N09]0.11
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
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	%	-	87	95	83

Client Sample ID			0445_OTH019_250512	0445_MW415_250514	0445_MW411_250514	0445_MW412_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049134	M25-My0049135	M25-My0049136	M25-My0049137
Date Sampled			May 12, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C5-PFPeA (surr.)	1	%	-	102	123	103
13C5-PFHxA (surr.)	1	%	-	102	119	105
13C4-PFHpA (surr.)	1	%	-	115	128	114
13C8-PFOA (surr.)	1	%	-	97	116	102
13C5-PFNA (surr.)	1	%	-	114	125	112
13C6-PFDA (surr.)	1	%	-	101	123	103
13C2-PFUnDA (surr.)	1	%	-	117	135	108
13C2-PFDoDA (surr.)	1	%	-	99	112	89
13C2-PFTeDA (surr.)	1	%	-	95	103	93
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	%	-	106	118	103
D3-N-MeFOSA (surr.)	1	%	-	75	77	69
D5-N-EtFOSA (surr.)	1	%	-	74	78	70
D7-N-MeFOSE (surr.)	1	%	-	90	83	65
D9-N-EtFOSE (surr.)	1	%	-	84	88	73
D5-N-EtFOSAA (surr.)	1	%	-	160	170	128
D3-N-MeFOSAA (surr.)	1	%	-	120	126	106
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	[N09]0.94	[N09]0.08	[N09]0.13
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	0.39	0.03	0.05
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	[N09]1.1	[N09]0.08	[N09]0.16
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	[N09]6.2	[N09]0.48	[N09]1.4
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	[N09]0.36	[N09]0.03	[N09]0.09
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	[N09]5.4	[N09]1.0	[N09]4.3
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	-	106	125	111
18O2-PFHxS (surr.)	1	%	-	96	117	101
13C8-PFOS (surr.)	1	%	-	92	106	91
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	-	0.10	< 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	%	-	69	76	69

Client Sample ID			0445_OTH019_250512	0445_MW415_250514	0445_MW411_250514	0445_MW412_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049134	M25-My0049135	M25-My0049136	M25-My0049137
Date Sampled			May 12, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-6:2 FTSA (surr.)	1	%	-	76	82	71
13C2-8:2 FTSA (surr.)	1	%	-	90	98	87
13C2-10:2 FTSA (surr.)	1	%	-	134	150	107
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	11.6	1.48	5.7
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	5.89	1.04	4.41
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	12.09	1.52	5.81
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	15.4	1.73	6.21
Sum of PFASs (n=30)*	0.1	ug/L	-	17.25	1.87	6.51

Client Sample ID			0445_MW414_250514	0445_MW361_250514	0445_MW360_250514	0445_MW447_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049138	M25-My0049139	M25-My0049140	M25-My0049141
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 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	0.02	0.06	0.02	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.11	0.06	0.02	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.01	[N09]0.02	[N09]0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.04	[N09]0.02	[N09]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	%	90	84	82	88
13C5-PFPeA (surr.)	1	%	116	110	106	100
13C5-PFHxA (surr.)	1	%	117	113	112	108
13C4-PFHpA (surr.)	1	%	124	119	120	115
13C8-PFOA (surr.)	1	%	109	101	103	101
13C5-PFNA (surr.)	1	%	119	91	115	108
13C6-PFDA (surr.)	1	%	108	51	90	94
13C2-PFUnDA (surr.)	1	%	111	30	70	92
13C2-PFDoDA (surr.)	1	%	89	15	44	68
13C2-PFTeDA (surr.)	1	%	90	13	41	67
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			0445_MW414_250514	0445_MW361_250514	0445_MW360_250514	0445_MW447_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049138	M25-My0049139	M25-My0049140	M25-My0049141
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	108	57	98	109
D3-N-MeFOSA (surr.)	1	%	62	21	63	77
D5-N-EtFOSA (surr.)	1	%	57	15	51	66
D7-N-MeFOSE (surr.)	1	%	72	17	34	61
D9-N-EtFOSE (surr.)	1	%	70	13	34	61
D5-N-EtFOSAA (surr.)	1	%	130	28	77	94
D3-N-MeFOSAA (surr.)	1	%	107	36	78	85
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.07	[N09]0.02	< 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	0.02	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.09	[N09]0.02	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.91	[N09]0.18	[N09]0.11	[N09]0.05
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.05	[N09]0.01	[N09]0.02	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]1.7	[N09]0.10	[N09]0.19	[N09]0.03
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	118	112	111	106
18O2-PFHxS (surr.)	1	%	111	104	98	101
13C8-PFOS (surr.)	1	%	95	62	84	90
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	%	85	99	92	59
13C2-6:2 FTSA (surr.)	1	%	79	86	90	66
13C2-8:2 FTSA (surr.)	1	%	80	45	69	99
13C2-10:2 FTSA (surr.)	1	%	101	23	48	123
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	2.61	0.28	0.3	0.08
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	1.74	0.12	0.2	0.03
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	2.65	0.3	0.31	0.08
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	2.86	0.46	0.36	0.08
Sum of PFASs (n=30)*	0.1	ug/L	3.02	0.49	0.38	< 0.1

Client Sample ID			0445_MW356_250514	0445_MW357_250514	0445_SW409_250513	0445_SW404_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049142	M25-My0049143	M25-My0049144	M25-My0049145
Date Sampled			May 14, 2025	May 14, 2025	May 13, 2025	May 13, 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	%	86	88	78	88
13C5-PFPeA (surr.)	1	%	99	94	89	97
13C5-PFHxA (surr.)	1	%	104	102	103	102
13C4-PFHpA (surr.)	1	%	108	110	116	105
13C8-PFOA (surr.)	1	%	96	97	99	94
13C5-PFNA (surr.)	1	%	99	96	101	98
13C6-PFDA (surr.)	1	%	82	69	68	78
13C2-PFUnDA (surr.)	1	%	71	48	37	61
13C2-PFDoDA (surr.)	1	%	43	28	19	42
13C2-PFTeDA (surr.)	1	%	34	28	18	40
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	%	88	75	84	103
D3-N-MeFOSA (surr.)	1	%	42	33	33	55
D5-N-EtFOSA (surr.)	1	%	36	27	24	51
D7-N-MeFOSE (surr.)	1	%	40	23	18	38
D9-N-EtFOSE (surr.)	1	%	35	22	15	36
D5-N-EtFOSAA (surr.)	1	%	71	43	39	55
D3-N-MeFOSAA (surr.)	1	%	72	53	53	64
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	[N09]0.03	[N09]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	[N09]0.02	[N09]0.07	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_MW356_250514	0445_MW357_250514	0445_SW409_250513	0445_SW404_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049142	M25-My0049143	M25-My0049144	M25-My0049145
Date Sampled			May 14, 2025	May 14, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	103	101	102	101
18O2-PFHxS (surr.)	1	%	97	93	91	97
13C8-PFOS (surr.)	1	%	80	76	79	79
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	%	56	70	106	57
13C2-6:2 FTSA (surr.)	1	%	60	68	115	59
13C2-8:2 FTSA (surr.)	1	%	98	78	101	85
13C2-10:2 FTSA (surr.)	1	%	68	51	32	63
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.05	0.08	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	0.02	0.07	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	0.05	0.08	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	0.05	0.09	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			0445_SW412_250513	0445_SW393_250513	0445_SW390_250513	0445_SW487_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049146	M25-My0049147	M25-My0049148	M25-My0049149
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	-	< 0.001	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of PFASs (n=30)*	0.005	ug/L	-	-	< 0.005	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	-	-	< 0.001	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	-	< 0.005	-
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
13C8-FOSA (surr.)	1	%	-	-	88	-
D3-N-MeFOSA (surr.)	1	%	-	-	136	-

Client Sample ID			0445_SW412_250513	0445_SW393_250513	0445_SW390_250513	0445_SW487_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049146	M25-My0049147	M25-My0049148	M25-My0049149
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances- Trace						
D5-N-EtFOSA (surr.)	1	%	-	-	125	-
D7-N-MeFOSE (surr.)	1	%	-	-	113	-
D9-N-EtFOSE (surr.)	1	%	-	-	149	-
D5-N-EtFOSAA (surr.)	1	%	-	-	132	-
D3-N-MeFOSAA (surr.)	1	%	-	-	126	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C4-PFBA (surr.)	1	%	-	-	20	-
13C5-PFPeA (surr.)	1	%	-	-	54	-
13C5-PFHxA (surr.)	1	%	-	-	79	-
13C4-PFHpA (surr.)	1	%	-	-	101	-
13C8-PFOA (surr.)	1	%	-	-	90	-
13C5-PFNA (surr.)	1	%	-	-	111	-
13C6-PFDA (surr.)	1	%	-	-	100	-
13C2-PFUnDA (surr.)	1	%	-	-	110	-
13C2-PFDoDA (surr.)	1	%	-	-	130	-
13C2-PFTeDA (surr.)	1	%	-	-	118	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	-	< 0.001	-
13C3-PFBS (surr.)	1	%	-	-	89	-
18O2-PFHxS (surr.)	1	%	-	-	97	-
13C8-PFOS (surr.)	1	%	-	-	86	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	-	< 0.005	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C2-4:2 FTSA (surr.)	1	%	-	-	60	-

Client Sample ID			0445_SW412_250513	0445_SW393_250513	0445_SW390_250513	0445_SW487_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049146	M25-My0049147	M25-My0049148	M25-My0049149
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
13C2-6:2 FTSA (surr.)	1	%	-	-	90	-
13C2-8:2 FTSA (surr.)	1	%	-	-	155	-
13C2-10:2 FTSA (surr.)	1	%	-	-	180	-
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	-	0.18
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	0.26
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.01	< 0.01	-	1.0
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	[N09]0.18
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	[N09]0.40
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	-	< 0.01
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	%	73	88	-	82
13C5-PFPeA (surr.)	1	%	88	96	-	95
13C5-PFHxA (surr.)	1	%	98	100	-	97
13C4-PFHpA (surr.)	1	%	107	109	-	109
13C8-PFOA (surr.)	1	%	91	94	-	87
13C5-PFNA (surr.)	1	%	94	93	-	86
13C6-PFDA (surr.)	1	%	77	63	-	56
13C2-PFUnDA (surr.)	1	%	65	42	-	40
13C2-PFDoDA (surr.)	1	%	39	26	-	24
13C2-PFTeDA (surr.)	1	%	33	27	-	24
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	%	85	92	-	84
D3-N-MeFOSA (surr.)	1	%	58	48	-	53
D5-N-EtFOSA (surr.)	1	%	51	38	-	43
D7-N-MeFOSE (surr.)	1	%	32	28	-	26
D9-N-EtFOSE (surr.)	1	%	30	22	-	23
D5-N-EtFOSAA (surr.)	1	%	55	42	-	43
D3-N-MeFOSAA (surr.)	1	%	62	46	-	52
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	-	[N09]0.64
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	-	0.25
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	[N09]0.78

Client Sample ID			0445_SW412_250513	0445_SW393_250513	0445_SW390_250513	0445_SW487_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049146	M25-My0049147	M25-My0049148	M25-My0049149
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.02	< 0.01	-	[N09]4.7
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	[N09]0.42
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.04	< 0.01	-	[N09]8.3
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	< 0.01
13C3-PFBS (surr.)	1	%	94	101	-	101
18O2-PFHxS (surr.)	1	%	89	97	-	86
13C8-PFOS (surr.)	1	%	75	72	-	62
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	%	114	70	-	83
13C2-6:2 FTSA (surr.)	1	%	119	67	-	77
13C2-8:2 FTSA (surr.)	1	%	112	71	-	67
13C2-10:2 FTSA (surr.)	1	%	75	41	-	46
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	< 0.01	-	13
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.04	< 0.01	-	8.7
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.06	< 0.01	-	13.4
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.07	< 0.05	-	15.66
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	17.11

Client Sample ID			0445_SW397_250513	0445_SW398_250513	0445_SW395_250513	0445_SW387_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049150	M25-My0049151	M25-My0049152	M25-My0049153
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.19	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.28	< 0.01	0.02	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	1.1	< 0.01	0.01	0.03
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.19	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.41	< 0.01	< 0.01	[N09]0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	80	87	80	95
13C5-PFPeA (surr.)	1	%	92	95	99	98
13C5-PFHxA (surr.)	1	%	97	100	106	107

Client Sample ID			0445_SW397_250513	0445_SW398_250513	0445_SW395_250513	0445_SW387_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049150	M25-My0049151	M25-My0049152	M25-My0049153
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFHpA (surr.)	1	%	109	103	115	115
13C8-PFOA (surr.)	1	%	88	90	98	99
13C5-PFNA (surr.)	1	%	93	95	101	96
13C6-PFDA (surr.)	1	%	57	73	74	66
13C2-PFUnDA (surr.)	1	%	38	57	55	41
13C2-PFDoDA (surr.)	1	%	24	30	32	24
13C2-PFTeDA (surr.)	1	%	28	24	31	31
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	%	94	88	69	84
D3-N-MeFOSA (surr.)	1	%	58	35	47	47
D5-N-EtFOSA (surr.)	1	%	46	25	47	42
D7-N-MeFOSE (surr.)	1	%	26	25	29	25
D9-N-EtFOSE (surr.)	1	%	21	20	25	22
D5-N-EtFOSAA (surr.)	1	%	38	55	48	40
D3-N-MeFOSAA (surr.)	1	%	46	68	59	46
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.70	< 0.01	< 0.01	[N09]0.03
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.28	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.80	< 0.01	< 0.01	[N09]0.03
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]4.7	< 0.01	[N09]0.05	[N09]0.25
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.38	< 0.01	< 0.01	[N09]0.02
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]6.0	< 0.01	0.11	[N09]0.24
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	100	102	105
18O2-PFHxS (surr.)	1	%	89	89	95	94
13C8-PFOS (surr.)	1	%	72	80	76	70
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	%	90	57	135	68
13C2-6:2 FTSA (surr.)	1	%	79	58	138	70
13C2-8:2 FTSA (surr.)	1	%	68	79	111	83
13C2-10:2 FTSA (surr.)	1	%	43	44	60	45

Client Sample ID			0445_SW397_250513	0445_SW398_250513	0445_SW395_250513	0445_SW387_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049150	M25-My0049151	M25-My0049152	M25-My0049153
Date Sampled			May 13, 2025	May 13, 2025	May 13, 2025	May 13, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	10.7	< 0.01	0.16	0.49
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	6.41	< 0.01	0.11	0.25
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	11.11	< 0.01	0.16	0.5
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	13.57	< 0.05	0.19	0.56
Sum of PFASs (n=30)*	0.1	ug/L	15.03	< 0.1	0.19	0.61

Client Sample ID			0445_SW416_250514	0445_SW430_250514	0445_SW431_250514	0445_SW432_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049154	M25-My0049155	M25-My0049156	M25-My0049157
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	< 0.001	-	-	-
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.001	ug/L	< 0.001	-	-	-
Sum of PFASs (n=30)*	0.005	ug/L	< 0.005	-	-	-
Sum of US EPA PFAS (PFOS + PFOA)*	0.001	ug/L	< 0.001	-	-	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	< 0.005	-	-	-
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	< 0.005	-	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	< 0.005	-	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	< 0.005	-	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	< 0.005	-	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	< 0.005	-	-	-
13C8-FOSA (surr.)	1	%	89	-	-	-
D3-N-MeFOSA (surr.)	1	%	103	-	-	-
D5-N-EtFOSA (surr.)	1	%	89	-	-	-
D7-N-MeFOSE (surr.)	1	%	100	-	-	-
D9-N-EtFOSE (surr.)	1	%	125	-	-	-
D5-N-EtFOSAA (surr.)	1	%	100	-	-	-
D3-N-MeFOSAA (surr.)	1	%	101	-	-	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	< 0.005	-	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	< 0.001	-	-	-

Client Sample ID			0445_SW416_250514	0445_SW430_250514	0445_SW431_250514	0445_SW432_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049154	M25-My0049155	M25-My0049156	M25-My0049157
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	< 0.001	-	-	-
13C4-PFBA (surr.)	1	%	86	-	-	-
13C5-PFPeA (surr.)	1	%	34	-	-	-
13C5-PFHxA (surr.)	1	%	78	-	-	-
13C4-PFHpA (surr.)	1	%	103	-	-	-
13C8-PFOA (surr.)	1	%	88	-	-	-
13C5-PFNA (surr.)	1	%	107	-	-	-
13C6-PFDA (surr.)	1	%	96	-	-	-
13C2-PFUnDA (surr.)	1	%	104	-	-	-
13C2-PFDoDA (surr.)	1	%	128	-	-	-
13C2-PFTeDA (surr.)	1	%	117	-	-	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	< 0.001	-	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	< 0.001	-	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	< 0.001	-	-	-
13C3-PFBS (surr.)	1	%	90	-	-	-
18O2-PFHxS (surr.)	1	%	98	-	-	-
13C8-PFOS (surr.)	1	%	86	-	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	< 0.005	-	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	< 0.001	-	-	-
13C2-4:2 FTSA (surr.)	1	%	59	-	-	-
13C2-6:2 FTSA (surr.)	1	%	91	-	-	-
13C2-8:2 FTSA (surr.)	1	%	132	-	-	-
13C2-10:2 FTSA (surr.)	1	%	133	-	-	-
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
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

Client Sample ID			0445_SW416_250514	0445_SW430_250514	0445_SW431_250514	0445_SW432_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049154	M25-My0049155	M25-My0049156	M25-My0049157
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C4-PFBA (surr.)	1	%	-	93	82	83
13C5-PFPeA (surr.)	1	%	-	100	104	103
13C5-PFHxA (surr.)	1	%	-	107	106	105
13C4-PFHpA (surr.)	1	%	-	117	119	118
13C8-PFOA (surr.)	1	%	-	96	99	99
13C5-PFNA (surr.)	1	%	-	93	105	101
13C6-PFDA (surr.)	1	%	-	62	78	69
13C2-PFUnDA (surr.)	1	%	-	49	60	46
13C2-PFDoDA (surr.)	1	%	-	33	35	27
13C2-PFTeDA (surr.)	1	%	-	36	28	21
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	%	-	70	89	85
D3-N-MeFOSA (surr.)	1	%	-	55	49	47
D5-N-EtFOSA (surr.)	1	%	-	50	44	38
D7-N-MeFOSE (surr.)	1	%	-	34	31	32
D9-N-EtFOSE (surr.)	1	%	-	32	27	23
D5-N-EtFOSAA (surr.)	1	%	-	45	50	40
D3-N-MeFOSAA (surr.)	1	%	-	49	62	56
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	-	< 0.01	< 0.01	[N09]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]0.01	[N09]0.05	[N09]0.06
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	-	101	98	105
18O2-PFHxS (surr.)	1	%	-	93	94	95
13C8-PFOS (surr.)	1	%	-	62	81	79
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

Client Sample ID			0445_SW416_250514	0445_SW430_250514	0445_SW431_250514	0445_SW432_250514
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049154	M25-My0049155	M25-My0049156	M25-My0049157
Date Sampled			May 14, 2025	May 14, 2025	May 14, 2025	May 14, 2025
Test/Reference	LOR	Unit				
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
13C2-4:2 FTSA (surr.)	1	%	-	108	123	91
13C2-6:2 FTSA (surr.)	1	%	-	125	100	94
13C2-8:2 FTSA (surr.)	1	%	-	80	97	86
13C2-10:2 FTSA (surr.)	1	%	-	64	54	51
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	0.01	0.05	0.07
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	-	0.01	0.05	0.06
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	-	0.01	0.05	0.07
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	< 0.05	0.05	0.07
Sum of PFASs (n=30)*	0.1	ug/L	-	< 0.1	< 0.1	< 0.1

Client Sample ID			0445_SW434_250514	0445_SW382_250515	0445_SW349_250515	0445_SW355_250515
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049158	M25-My0049159	M25-My0049160	M25-My0049161
Date Sampled			May 15, 2025	May 15, 2025	May 15, 2025	May 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	< 0.05	0.06	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.10	0.02
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	0.01	0.10	0.02
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	[N09]0.04	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	[N09]0.06	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.02	< 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	%	87	81	73	81
13C5-PFPeA (surr.)	1	%	92	92	84	87
13C5-PFHxA (surr.)	1	%	100	102	98	102
13C4-PFHpA (surr.)	1	%	106	113	105	108
13C8-PFOA (surr.)	1	%	93	97	92	95
13C5-PFNA (surr.)	1	%	96	103	102	100
13C6-PFDA (surr.)	1	%	74	87	92	87
13C2-PFUnDA (surr.)	1	%	46	67	91	76
13C2-PFDoDA (surr.)	1	%	20	33	63	46
13C2-PFTeDA (surr.)	1	%	17	23	56	36
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05

Client Sample ID			0445_SW434_250514	0445_SW382_250515	0445_SW349_250515	0445_SW355_250515
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049158	M25-My0049159	M25-My0049160	M25-My0049161
Date Sampled			May 15, 2025	May 15, 2025	May 15, 2025	May 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	86	70	102	97
D3-N-MeFOSA (surr.)	1	%	38	40	111	75
D5-N-EtFOSA (surr.)	1	%	31	35	101	64
D7-N-MeFOSE (surr.)	1	%	24	24	59	44
D9-N-EtFOSE (surr.)	1	%	17	21	57	38
D5-N-EtFOSAA (surr.)	1	%	42	64	79	71
D3-N-MeFOSAA (surr.)	1	%	58	77	86	75
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	[N09]0.05	< 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	0.04	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	[N09]0.04	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	< 0.01	[N09]0.26	[N09]0.05
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	[N09]0.02	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	[N09]0.01	[N09]1.1	[N09]0.18
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	97	99	98	100
18O2-PFHxS (surr.)	1	%	93	91	91	94
13C8-PFOS (surr.)	1	%	79	86	89	89
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	%	59	107	108	100
13C2-6:2 FTSA (surr.)	1	%	61	102	126	105
13C2-8:2 FTSA (surr.)	1	%	80	117	136	110
13C2-10:2 FTSA (surr.)	1	%	28	61	120	77
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.01	1.36	0.23
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	0.01	1.16	0.18
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	0.01	1.42	0.23
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	1.77	0.27
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	1.89	0.27

Client Sample ID			0445_SW346_250515	0445_SW338_250515	0445_SW336_250515	0445_QC101_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049162	M25-My0049163	M25-My0049164	M25-My0049165
Date Sampled			May 15, 2025	May 15, 2025	May 15, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.07	< 0.05	0.93	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.11	0.04	1.9	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.10	0.10	5.1	0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	[N09]0.03	[N09]0.02	[N09]1.6	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.06	[N09]0.04	[N09]3.5	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.02	< 0.01	0.83	< 0.01
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.38	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.06	< 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	%	82	81	65	84
13C5-PFPeA (surr.)	1	%	91	96	87	113
13C5-PFHxA (surr.)	1	%	105	110	84	105
13C4-PFHpA (surr.)	1	%	115	120	96	116
13C8-PFOA (surr.)	1	%	98	102	72	97
13C5-PFNA (surr.)	1	%	104	102	87	101
13C6-PFDA (surr.)	1	%	84	75	67	72
13C2-PFUnDA (surr.)	1	%	60	50	63	47
13C2-PFDoDA (surr.)	1	%	32	23	37	24
13C2-PFTeDA (surr.)	1	%	24	14	27	20
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	%	97	95	78	90
D3-N-MeFOSA (surr.)	1	%	51	61	61	43
D5-N-EtFOSA (surr.)	1	%	40	44	58	39
D7-N-MeFOSE (surr.)	1	%	27	18	43	29
D9-N-EtFOSE (surr.)	1	%	24	15	34	21
D5-N-EtFOSAA (surr.)	1	%	60	45	61	46
D3-N-MeFOSAA (surr.)	1	%	69	56	62	56
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.05	[N09]0.03	[N09]0.65	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	[N09]0.12	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.03	0.01	0.17	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	[N09]0.04	[N09]0.03	[N09]1.1	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.26	[N09]0.21	[N09]6.9	[N09]0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.02	[N09]0.01	[N09]0.44	[N09]< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]1.2	[N09]1.0	[N09]15	[N09]0.08
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	[N09]0.05	< 0.01

Client Sample ID			0445_SW346_250515	0445_SW338_250515	0445_SW336_250515	0445_QC101_250513
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049162	M25-My0049163	M25-My0049164	M25-My0049165
Date Sampled			May 15, 2025	May 15, 2025	May 15, 2025	May 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	102	103	92	104
18O2-PFHxS (surr.)	1	%	96	96	94	92
13C8-PFOS (surr.)	1	%	81	79	78	75
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	0.58	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.94	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	0.03	< 0.01
13C2-4:2 FTSA (surr.)	1	%	102	120	106	110
13C2-6:2 FTSA (surr.)	1	%	108	117	110	116
13C2-8:2 FTSA (surr.)	1	%	99	95	103	107
13C2-10:2 FTSA (surr.)	1	%	56	44	71	41
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	1.46	1.21	21.9	0.09
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	1.26	1.04	18.5	0.08
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	1.52	1.25	25.4	0.09
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.88	1.44	37.1	0.1
Sum of PFASs (n=30)*	0.1	ug/L	1.99	1.49	40.28	0.1

Client Sample ID			0445_QC102_250513	0445_QC101_250514	0445_QC101_250515	0445_QC301_250512
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049166	M25-My0049167	M25-My0049168	M25-My0049169
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 12, 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	0.02	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.04	0.02	0.10	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	[N09]0.02	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	[N09]0.01	[N09]0.01	[N09]0.04	< 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	%	94	92	82	93
13C5-PFPeA (surr.)	1	%	130	142	148	153
13C5-PFHxA (surr.)	1	%	107	109	113	105
13C4-PFHpA (surr.)	1	%	113	116	121	103
13C8-PFOA (surr.)	1	%	99	100	99	91
13C5-PFNA (surr.)	1	%	103	116	105	103
13C6-PFDA (surr.)	1	%	69	82	78	90

Client Sample ID			0445_QC102_250513	0445_QC101_250514	0445_QC101_250515	0445_QC301_250512
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049166	M25-My0049167	M25-My0049168	M25-My0049169
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 12, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
13C2-PFUnDA (surr.)	1	%	45	62	60	88
13C2-PFDoDA (surr.)	1	%	25	44	33	69
13C2-PFTeDA (surr.)	1	%	25	37	23	62
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	%	98	119	117	117
D3-N-MeFOSA (surr.)	1	%	43	64	76	54
D5-N-EtFOSA (surr.)	1	%	34	52	61	50
D7-N-MeFOSE (surr.)	1	%	38	52	47	91
D9-N-EtFOSE (surr.)	1	%	21	33	28	63
D5-N-EtFOSAA (surr.)	1	%	41	59	55	81
D3-N-MeFOSAA (surr.)	1	%	55	71	65	88
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	[N09]0.03	< 0.01	[N09]0.03	< 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	[N09]0.03	< 0.01	[N09]0.03	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.25	[N09]0.11	[N09]0.21	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	[N09]0.02	[N09]0.02	[N09]0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.20	[N09]0.19	[N09]1.1	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	109	112	112	107
18O2-PFHxS (surr.)	1	%	102	99	99	95
13C8-PFOS (surr.)	1	%	79	84	81	93
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	%	68	67	124	52
13C2-6:2 FTSA (surr.)	1	%	70	70	119	52
13C2-8:2 FTSA (surr.)	1	%	82	93	103	93
13C2-10:2 FTSA (surr.)	1	%	40	65	56	106

Client Sample ID			0445_QC102_250513	0445_QC101_250514	0445_QC101_250515	0445_QC301_250512
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049166	M25-My0049167	M25-My0049168	M25-My0049169
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 12, 2025
Test/Reference	LOR	Unit				
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.45	0.3	1.31	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	0.21	0.2	1.14	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	0.46	0.31	1.35	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.53	0.33	1.52	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.58	0.35	1.57	< 0.1

Client Sample ID			0445_QC301_250513	0445_QC301_250514	0445_QC301_250515	0445_QC401_250512
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049170	M25-My0049171	M25-My0049172	M25-My0049173
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 12, 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	%	93	92	104	91
13C5-PFPeA (surr.)	1	%	163	151	130	117
13C5-PFHxA (surr.)	1	%	104	105	118	110
13C4-PFHpA (surr.)	1	%	108	107	113	108
13C8-PFOA (surr.)	1	%	91	91	96	94
13C5-PFNA (surr.)	1	%	102	102	98	99
13C6-PFDA (surr.)	1	%	88	85	88	97
13C2-PFUnDA (surr.)	1	%	87	81	83	92
13C2-PFDoDA (surr.)	1	%	68	59	63	73
13C2-PFTeDA (surr.)	1	%	57	49	29	48
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	%	120	118	110	106

Client Sample ID			0445_QC301_250513	0445_QC301_250514	0445_QC301_250515	0445_QC401_250512
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049170	M25-My0049171	M25-My0049172	M25-My0049173
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 12, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D3-N-MeFOSA (surr.)	1	%	75	58	76	86
D5-N-EtFOSA (surr.)	1	%	67	53	75	91
D7-N-MeFOSE (surr.)	1	%	100	100	31	38
D9-N-EtFOSE (surr.)	1	%	58	58	102	107
D5-N-EtFOSAA (surr.)	1	%	80	78	138	132
D3-N-MeFOSAA (surr.)	1	%	89	80	116	131
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	%	109	110	121	115
18O2-PFHxS (surr.)	1	%	97	94	100	100
13C8-PFOS (surr.)	1	%	90	89	90	97
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	%	53	52	84	72
13C2-6:2 FTSA (surr.)	1	%	55	54	52	48
13C2-8:2 FTSA (surr.)	1	%	87	94	122	97
13C2-10:2 FTSA (surr.)	1	%	96	84	104	113
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			0445_QC401_250513	0445_QC401_250514	0445_QC401_250515	0445_QC501_250515
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049174	M25-My0049175	M25-My0049176	M25-My0049177
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 15, 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	%	92	91	112	103
13C5-PFPeA (surr.)	1	%	168	164	136	128
13C5-PFHxA (surr.)	1	%	105	106	124	113
13C4-PFHpA (surr.)	1	%	106	107	117	110
13C8-PFOA (surr.)	1	%	92	89	100	96
13C5-PFNA (surr.)	1	%	102	103	106	101
13C6-PFDA (surr.)	1	%	85	83	95	98
13C2-PFUnDA (surr.)	1	%	79	83	87	85
13C2-PFDoDA (surr.)	1	%	63	62	64	59
13C2-PFTeDA (surr.)	1	%	57	54	29	24
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	%	112	113	111	106
D3-N-MeFOSA (surr.)	1	%	59	50	70	86
D5-N-EtFOSA (surr.)	1	%	50	46	67	85
D7-N-MeFOSE (surr.)	1	%	84	100	31	33
D9-N-EtFOSE (surr.)	1	%	52	53	100	108
D5-N-EtFOSAA (surr.)	1	%	74	77	124	113
D3-N-MeFOSAA (surr.)	1	%	85	82	120	118
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

Client Sample ID			0445_QC401_250513	0445_QC401_250514	0445_QC401_250515	0445_QC501_250515
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-My0049174	M25-My0049175	M25-My0049176	M25-My0049177
Date Sampled			May 13, 2025	May 14, 2025	May 15, 2025	May 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	110	112	130	124
18O2-PFHxS (surr.)	1	%	94	98	100	94
13C8-PFOS (surr.)	1	%	89	91	105	91
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	%	57	54	87	87
13C2-6:2 FTSA (surr.)	1	%	56	52	54	47
13C2-8:2 FTSA (surr.)	1	%	91	88	125	122
13C2-10:2 FTSA (surr.)	1	%	104	93	110	120
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of US EPA PFAS (PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of enHealth PFAS (PFHxS + PFOS + PFOA)*	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

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) - Trace			
PFASs Summations	Melbourne	May 16, 2025	
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl sulfonamido substances- Trace	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl carboxylic acids (PFCAs) - Trace	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl sulfonic acids (PFSAs)- Trace	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	May 19, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

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35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
External Laboratory								
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**			
1	0445_OTH019_250512	May 12, 2025		Water	M25-My0049134			X
2	0445_MW415_250514	May 14, 2025		Water	M25-My0049135		X	
3	0445_MW411_250514	May 14, 2025		Water	M25-My0049136		X	
4	0445_MW412_250514	May 14, 2025		Water	M25-My0049137		X	
5	0445_MW414_250514	May 14, 2025		Water	M25-My0049138		X	
6	0445_MW361_250514	May 14, 2025		Water	M25-My0049139		X	
7	0445_MW360_250514	May 14, 2025		Water	M25-My0049140		X	
8	0445_MW447_250514	May 14, 2025		Water	M25-My0049141		X	
9	0445_MW356	May 14, 2025		Water	M25-My0049142		X	

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

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46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
	_250514							
10	0445_MW357_250514	May 14, 2025		Water	M25-My0049143		X	
11	0445_SW409_250513	May 13, 2025		Water	M25-My0049144		X	
12	0445_SW404_250513	May 13, 2025		Water	M25-My0049145		X	
13	0445_SW412_250513	May 13, 2025		Water	M25-My0049146		X	
14	0445_SW393_250513	May 13, 2025		Water	M25-My0049147		X	
15	0445_SW390_250513	May 13, 2025		Water	M25-My0049148			X
16	0445_SW487_250513	May 13, 2025		Water	M25-My0049149		X	
17	0445_SW397_250513	May 13, 2025		Water	M25-My0049150		X	
18	0445_SW398_250513	May 13, 2025		Water	M25-My0049151		X	
19	0445_SW395_	May 13, 2025		Water	M25-My0049152		X	

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

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46-48 Banksia Road
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WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Eurofins Environment Testing NZ Ltd
NZBN: 9429046024954

Auckland	Auckland (Focus)	Christchurch	Tauranga
35 O'Rorke Road	Unit C1/4 Pacific Rise	43 Detroit Drive	1277 Cameron Road
Penrose	Mount Wellington	Rolleston	Gate Pa
Auckland 1061	Auckland 1061	Christchurch 7675	Tauranga 3112
+64 9 526 4551	+64 9 525 0568	+64 3 343 5201	+64 9 525 0568
IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
Report #: 1221064
Phone: 03 9642 0599
Fax:

Received: May 16, 2025 5:20 PM
Due: May 23, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
19	0445_SW395_250513	May 13, 2025		Water	M25-My0049152			
20	0445_SW387_250513	May 13, 2025		Water	M25-My0049153		X	
21	0445_SW416_250514	May 14, 2025		Water	M25-My0049154			X
22	0445_SW430_250514	May 14, 2025		Water	M25-My0049155		X	
23	0445_SW431_250514	May 14, 2025		Water	M25-My0049156		X	
24	0445_SW432_250514	May 14, 2025		Water	M25-My0049157		X	
25	0445_SW434_250514	May 15, 2025		Water	M25-My0049158		X	
26	0445_SW382_250515	May 15, 2025		Water	M25-My0049159		X	
27	0445_SW349_250515	May 15, 2025		Water	M25-My0049160		X	
28	0445_SW355_250515	May 15, 2025		Water	M25-My0049161		X	

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Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
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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

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP
Project ID: VIC_0445_PFASOMP_24A

Order No.:
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Received: May 16, 2025 5:20 PM
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Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
29	0445_SW346_250515	May 15, 2025		Water	M25-My0049162		X	
30	0445_SW338_250515	May 15, 2025		Water	M25-My0049163		X	
31	0445_SW336_250515	May 15, 2025		Water	M25-My0049164		X	
32	0445_QC101_250513	May 13, 2025		Water	M25-My0049165		X	
33	0445_QC102_250513	May 13, 2025		Water	M25-My0049166		X	
34	0445_QC101_250514	May 14, 2025		Water	M25-My0049167		X	
35	0445_QC101_250515	May 15, 2025		Water	M25-My0049168		X	
36	0445_QC301_250512	May 12, 2025		Water	M25-My0049169		X	
37	0445_QC301_250513	May 13, 2025		Water	M25-My0049170		X	
38	0445_QC301_250514	May 14, 2025		Water	M25-My0049171		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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IANZ# 1327	IANZ# 1308	IANZ# 1290	IANZ# 1402

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Sample Detail						HOLD*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X
39	0445_QC301_250515	May 15, 2025		Water	M25-My0049172		X	
40	0445_QC401_250512	May 12, 2025		Water	M25-My0049173		X	
41	0445_QC401_250513	May 13, 2025		Water	M25-My0049174		X	
42	0445_QC401_250514	May 14, 2025		Water	M25-My0049175		X	
43	0445_QC401_250515	May 15, 2025		Water	M25-My0049176		X	
44	0445_QC501_250515	May 15, 2025		Water	M25-My0049177		X	
45	0445_QC502_250515	May 15, 2025		Water	M25-My0049178	X		
46	0445_QC503_250515	May 15, 2025		Water	M25-My0049179	X		
Test Counts						2	41	3

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/L	< 0.005			0.005	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.005			0.005	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.005			0.005	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.005			0.005	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.005			0.005	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.005			0.005	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.005			0.005	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.001			0.001	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.001			0.001	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.001			0.001	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.001			0.001	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.001			0.001	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.001			0.001	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.001			0.001	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.001			0.001	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.001			0.001	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.001			0.001	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.001			0.001	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.001			0.001	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.001			0.001	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.001			0.001	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.005			0.005	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.001			0.001	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	102			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	94			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	81			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	116			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	93			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	86			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	%	109			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	54			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	85			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	103			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	90			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	94			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	92			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	114			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotetradecanoic acid (PFTeDA)	%	108			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	%	78			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	104			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	77			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	98			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	92			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	112			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	97			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	80			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	127			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	93			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	111			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	112			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	100			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	109			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	104			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	121			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	100			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	110			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	111			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	106			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	131			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	108			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	101			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	112			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	98			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	106			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	115			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	108			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	103			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	139			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	119			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	107			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	97			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	113			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	105			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	102			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	96			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	112			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	103			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	99			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	124			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	97			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	112			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	115			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	104			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	110			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	137			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	115			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	109			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	102			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	90			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	117			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	99			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	108			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	101			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	113			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	105			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	100			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	134			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	114			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	92			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	112			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	118			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	102			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	94			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	111			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	104			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	122			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	92			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	106			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)			%	113			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)			%	119			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)			%	111			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)			%	136			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)			%	109			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)			%	107			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)			%	104			50-150	Pass	
LCS - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)									
Perfluorobutanesulfonic acid (PFBS)			%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)			%	121			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)			%	104			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	109			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	103			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	118			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	114			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)			%	110			50-150	Pass	
LCS - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)									
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)			%	135			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	121			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	108			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	100			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)	M25-My0049141	CP	%	112			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049141	CP	%	115			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049141	CP	%	101			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049141	CP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049141	CP	%	108			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049141	CP	%	100			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049141	CP	%	103			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049141	CP	%	98			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049141	CP	%	123			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049141	CP	%	103			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049141	CP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0049141	CP	%	110			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049141	CP	%	112			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049141	CP	%	110			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049141	CP	%	130			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049141	CP	%	111			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049141	CP	%	100			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049141	CP	%	97			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0049141	CP	%	93			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049141	CP	%	113			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049141	CP	%	96			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049141	CP	%	111			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049141	CP	%	103			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049141	CP	%	123			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049141	CP	%	115			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049141	CP	%	99			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-My0049141	CP	%	133			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049141	CP	%	128			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049141	CP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049141	CP	%	95			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances- Trace				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0049148	CP	%	107			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049148	CP	%	103			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049148	CP	%	97			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049148	CP	%	123			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049148	CP	%	109			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049148	CP	%	103			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049148	CP	%	94			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1					
Perfluorobutanoic acid (PFBA)	M25-My0049148	CP	%	110			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049148	CP	%	74			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049148	CP	%	97			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049148	CP	%	88			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049148	CP	%	112			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049148	CP	%	94			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049148	CP	%	97			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049148	CP	%	115			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroundecanoic acid (PFUnDA)	M25-My0049148	CP	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049148	CP	%	113			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049148	CP	%	101			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0049148	CP	%	87			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049148	CP	%	117			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049148	CP	%	80			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049148	CP	%	104			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049148	CP	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049148	CP	%	120			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049148	CP	%	110			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049148	CP	%	100			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)	M25-My0049148	CP	%	135			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049148	CP	%	116			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049148	CP	%	103			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049148	CP	%	97			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-My0049152	CP	%	118			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049152	CP	%	126			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049152	CP	%	109			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049152	CP	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049152	CP	%	113			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049152	CP	%	103			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049152	CP	%	111			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049152	CP	%	105			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049152	CP	%	129			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049152	CP	%	87			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049152	CP	%	115			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0049152	CP	%	116			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049152	CP	%	116			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049152	CP	%	115			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049152	CP	%	137			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049152	CP	%	118			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049152	CP	%	102			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049152	CP	%	105			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0049152	CP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049152	CP	%	104			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049152	CP	%	110			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049152	CP	%	115			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049152	CP	%	106			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049152	CP	%	126			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049152	CP	%	103			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049152	CP	%	68			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-My0049152	CP	%	142			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049152	CP	%	118			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049152	CP	%	117			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049152	CP	%	99			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-My0049163	CP	%	118			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049163	CP	%	104			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049163	CP	%	108			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049163	CP	%	95			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049163	CP	%	107			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049163	CP	%	101			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049163	CP	%	111			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049163	CP	%	109			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049163	CP	%	134			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049163	CP	%	94			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049163	CP	%	131			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-My0049163	CP	%	114			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049163	CP	%	125			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049163	CP	%	116			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049163	CP	%	135			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049163	CP	%	125			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049163	CP	%	116			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049163	CP	%	102			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0049163	CP	%	95			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049163	CP	%	98			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049163	CP	%	103			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049163	CP	%	105			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049163	CP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049163	CP	%	129			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049163	CP	%	71			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-My0049163	CP	%	137			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049163	CP	%	118			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049163	CP	%	110			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049163	CP	%	115			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-My0049173	CP	%	114			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049173	CP	%	119			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049173	CP	%	109			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049173	CP	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049173	CP	%	114			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049173	CP	%	105			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049173	CP	%	103			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049173	CP	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049173	CP	%	119			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049173	CP	%	62			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049173	CP	%	118			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	M25-My0049173	CP	%	110			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049173	CP	%	110			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049173	CP	%	135			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049173	CP	%	118			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049173	CP	%	108			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049173	CP	%	99			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-My0049173	CP	%	96			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049173	CP	%	105			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049173	CP	%	107			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049173	CP	%	114			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049173	CP	%	109			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049173	CP	%	113			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049173	CP	%	121			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049173	CP	%	110			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049173	CP	%	142			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049173	CP	%	113			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049173	CP	%	109			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Perfluoroalkyl sulfonamido substances- Trace				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0049134	CP	ug/L	0.007	0.006	5.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049134	CP	ug/L	0.001	0.001	3.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049134	CP	ug/L	0.012	0.012	3.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049134	CP	ug/L	0.002	0.002	2.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049134	CP	ug/L	0.007	0.007	4.0	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0049134	CP	ug/L	0.014	0.013	3.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049134	CP	ug/L	0.005	0.004	4.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049134	CP	ug/L	0.024	0.023	3.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049134	CP	ug/L	0.24	0.23	3.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049134	CP	ug/L	0.010	0.010	3.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049134	CP	ug/L	0.12	0.12	1.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<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)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049134	CP	ug/L	< 0.005	< 0.005	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049134	CP	ug/L	< 0.001	< 0.001	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049140	CP	ug/L	0.02	0.02	9.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049140	CP	ug/L	0.02	0.02	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049140	CP	ug/L	0.01	0.01	1.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049140	CP	ug/L	0.01	0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049140	CP	ug/L	0.11	0.11	7.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049140	CP	ug/L	0.02	0.02	5.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049140	CP	ug/L	0.19	0.20	4.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049140	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049140	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049151	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049151	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0049162	CP	ug/L	0.07	0.06	5.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049162	CP	ug/L	0.11	0.11	1.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049162	CP	ug/L	0.10	0.10	2.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049162	CP	ug/L	0.03	0.03	1.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049162	CP	ug/L	0.06	0.06	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049162	CP	ug/L	0.02	0.02	5.0	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0049162	CP	ug/L	0.05	0.05	3.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049162	CP	ug/L	0.03	0.04	10	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049162	CP	ug/L	0.04	0.04	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049162	CP	ug/L	0.26	0.26	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049162	CP	ug/L	0.02	0.02	8.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049162	CP	ug/L	1.2	1.4	14	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049162	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049162	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<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)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-My0049172	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-My0049172	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	Yes
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
N09	Quantification of linear and branched isomers has been conducted as a single total response using the relative response factor for the corresponding linear/branched standard.
N11	Isotope dilution is used for calibration of each native compound for which an exact labelled analogue is available (Isotope Dilution Quantitation). The isotopically labelled analogues allow identification and recovery correction of the concentration of the associated native PFAS compounds.
N15	Where the native PFAS compound does not have labelled analogue then the quantification is made using the Extracted Internal Standard Analyte with the closest retention time to the analyte and no recovery correction has been made (Internal Standard Quantitation).

Authorised by:

[redacted]

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

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Chain of Custody

JBS&G

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A

PROJECT NAME: Bandiana OMP

DATE NEEDED BY: Standard TAT

LABORATORY BATCH NO.:

SAMPLERS: [redacted]

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: [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Forward to Envirolab with listed samples

LS EL (7)

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level			Hold												TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	0445_QC201_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
2	0445_QC202_250513	Water	13/5/25	PM	1 X PFAS Bottle		X																	
3	0445_QC201_250514	Water	14/5/25	PM	1 X PFAS Bottle		X																	
4	0445_QC201_250515	Water	15/5/25	PM	1 X PFAS Bottle		X																	

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph. (03) 9763 2500

Job No: M9E0347

Date Received: 19/05/25

Time Received: 1100

Received By: JS

Temp: Cool/Ambient 6.9°C

Cooling: Ice/Icepack

Security: Intact/Broken/None

RELINQUISHED BY: Luke S.
OF EUROFINS
DATE: 16/5 TIME: 9:40pm

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: Matt Axisa DATE: 16/5/25 OF: JBS&G	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: 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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Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
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ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Work Amendment Advice MGE0347

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Attention	[redacted]

Sample Login Details

Your Reference	VIC_0445_PFASOMP_24A
Envirolab Reference	MGE0347
Date Sample Received	19/05/2025
Date Instructions Received	19/05/2025
Date Final Results Expected	26/05/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
Number of Samples	4 Water
Turnaround Time	5 Days
Temperatures / Cooling Methods	6.9°C Ice Pack

Additional Info

Sample storage - waters are routinely disposed at approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Where no sampling date has been supplied for some or all samples, the date of sample receipt has been used as the associated sampling date. The sampling dates are used to assess compliance to recommended Technical Holding Times.

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).

Please direct any queries to:

[redacted]

[redacted]

Analysis underway, details on the following page

Work Amendment Advice MGE0347

Analysis Grid

The • indicates the testing you have requested. ***THIS IS NOT A REPORT OF THE RESULTS.***

	PFAS - Extended (LL)
MGE0347-01 Water | 13/05/2025 0445_QC201_250513	•
MGE0347-02 Water | 13/05/2025 0445_QC202_250513	•
MGE0347-03 Water | 14/05/2025 0445_QC201_250514	•
MGE0347-04 Water | 15/05/2025 0445_QC201_250515	•

Suite Details

Suite Name	Suite Analyses
PFAS - Extended (LL) |Water	PFAS EXT LL -ISTD, PFAS-Extended (LL)

Work Order Amendment History

Revision	Reason for Amendment
R-01	This is an amended work order due to correction of testing schedule.

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MGE0347

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Contact	[redacted]
Address	19/31 Queen St, MELBOURNE, VIC, 3000

Sample Details

Your Reference	VIC_0445_PFASOMP_24A
Number of Samples	4 Water
Date Samples Received	19/05/2025
Date Instructions Received	19/05/2025

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 soils and on an as received basis for other matrices.

Report Details

Date Results Requested by	26/05/2025
Date of Issue	26/05/2025

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Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	[redacted]
Laboratory Manager	[redacted]

Certificate of Analysis MGE0347

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MGE0347-01	0445_QC201_250513	Water	13/05/2025	19/05/2025
MGE0347-02	0445_QC202_250513	Water	13/05/2025	19/05/2025
MGE0347-03	0445_QC201_250514	Water	14/05/2025	19/05/2025
MGE0347-04	0445_QC201_250515	Water	15/05/2025	19/05/2025

Certificate of Analysis MGE0347

PFAS Extended List - Low Level (Water) - Analysed By Envirolab Services Sydney

Envirolab ID	Units	PQL	MGE0347-01	MGE0347-02	MGE0347-03	MGE0347-04
Your Reference			0445_QC201_250513	0445_QC202_250513	0445_QC201_250514	0445_QC201_250515
Date Sampled			13/05/2025	13/05/2025	14/05/2025	15/05/2025
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.010	0.046	0.022	0.046
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.010	0.043	0.011	0.034
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	0.016	0.29	0.12	0.24
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.010	0.019	0.017	0.015
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	0.054	0.14	0.14	0.75
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorobutanoic acid (PFBA)	µg/L	0.050	<0.20	<0.20	<0.20	<0.20
Perfluoropentanoic acid (PFPeA)	µg/L	0.010	<0.010	<0.010	0.014	0.039
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.010	0.035	0.014	0.12
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.010	0.011	0.013	0.034
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.010	0.013	<0.010	0.042
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorodecanoic acid (PFDA)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorododecanoic acid (PFDoDA)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.010	<0.010	<0.010	<0.010	<0.010
Perfluorooctane sulfonamide (FOSA)	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	<0.10	<0.10	<0.10
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	<0.50	<0.50	<0.50
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	<0.050	<0.050	<0.050
Total +ve PFHxS+PFOS	µg/L	0.010	0.070	0.43	0.26	0.99
Total +ve PFOA+PFOS	µg/L	0.010	0.054	0.15	0.14	0.79
Total +ve PFHxS + PFOS + PFOA	µg/L	0.010	0.070	0.44	0.26	1.0
Total +ve PFAS (WA DER List)	µg/L	0.050	0.070	0.54	0.32	1.3
Total +ve PFAS	µg/L	0.10	<0.010	0.60	0.35	1.3
Surrogate 13C8 PFOS	%		*75.4*	*79.6*	*74.1*	*84.1*
Surrogate 13C2 PFOA	%		*99.7*	*99.4*	*102*	*100*
Extraction Internal Standard 13C3 PFBS	%		*88.0*	*85.0*	*89.0*	*71.0*
Extraction Internal Standard 18O2 PFHxS	%		*94.0*	*98.0*	*98.0*	*98.0*
Extraction Internal Standard 13C4 PFOS	%		*69.0*	*106*	*107*	*107*
Extraction Internal Standard 13C4 PFBA	%		*18.0 [1]*	*23.0 [1]*	*36.0 [1]*	*12.0 [1]*
Extraction Internal Standard 13C3 PFPeA	%		*107*	*105*	*62.0*	*102*
Extraction Internal Standard 13C2 PFHxA	%		*63.0*	*81.0*	*82.0*	*110*
Extraction Internal Standard 13C4 PFHpA	%		*56.0*	*65.0*	*77.0*	*59.0*

Certificate of Analysis MGE0347

PFAS Extended List - Low Level (Water) - Analysed By Envirolab Services Sydney

Envirolab ID	Units	PQL	MGE0347-01	MGE0347-02	MGE0347-03	MGE0347-04
Your Reference			0445_QC201_2 50513	0445_QC202_2 50513	0445_QC201_2 50514	0445_QC201_2 50515
Date Sampled			13/05/2025	13/05/2025	14/05/2025	15/05/2025
Extraction Internal Standard 13C4 PFOA	%		*86.0*	*92.0*	*100*	*96.0*
Extraction Internal Standard 13C5 PFNA	%		*75.0*	*58.0*	*90.0*	*59.0*
Extraction Internal Standard 13C2 PFDA	%		*106*	*78.0*	*97.0*	*116*
Extraction Internal Standard 13C2 PFUnDA	%		*119*	*27.0 [1]*	*98.0*	*122*
Extraction Internal Standard 13C2 PFDoDA	%		*81.0*	*21.0 [1]*	*75.0*	*88.0*
Extraction Internal Standard 13C2 PFTeDA	%		*63.0*	*41.0 [1]*	*56.0*	*119*
Extraction Internal Standard 13C2 4:2FTS	%		*100*	*133*	*121*	*97.0*
Extraction Internal Standard 13C2 6:2FTS	%		*## [1]*	*## [1]*	*199 [1]*	*## [1]*
Extraction Internal Standard 13C2 8:2FTS	%		*## [1]*	*183 [1]*	*189 [1]*	*## [1]*
Extraction Internal Standard 13C8 FOSA	%		*71.0*	*37.0 [1]*	*84.0*	*76.0*
Extraction Internal Standard d3 N MeFOSA	%		*100*	*96.0*	*99.0*	*96.0*
Extraction Internal Standard d5 N EtFOSA	%		*101*	*96.0*	*94.0*	*89.0*
Extraction Internal Standard d7 N MeFOSE	%		*100*	*96.0*	*94.0*	*103*
Extraction Internal Standard d9 N EtFOSE	%		*101*	*100*	*101*	*95.0*
Extraction Internal Standard d3 N MeFOSAA	%		*171 [1]*	*81.0*	*137*	*134*
Extraction Internal Standard d5 N EtFOSAA	%		*## [1]*	*106*	*152 [1]*	*154 [1]*

Result Comments

Identifier	Description
[1]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Method Summary

Method ID	Methodology Summary
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

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.

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.

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.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

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.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

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 QAQC tables for details (available on request); <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; 60-140% for organics (+/-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 typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

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. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

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 or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MGE0347

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Your Reference	VIC_0445_PFASOMP_24A
Date Issued	26/05/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	No	LCS Outliers Exist - See detailed list below
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	No	QC Frequency Outliers Exist - See detailed list below

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MGE0347

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
PFAS EXT LL -ISTD | Water	1-2	13/05/2025	26/05/2025	26/05/2025	Yes
	3	14/05/2025	26/05/2025	26/05/2025	Yes
	4	15/05/2025	26/05/2025	26/05/2025	Yes
PFAS-Extended (LL) | Water	1-2	13/05/2025	26/05/2025	26/05/2025	Yes
	3	14/05/2025	26/05/2025	26/05/2025	Yes
	4	15/05/2025	26/05/2025	26/05/2025	Yes

Outliers: Laboratory Control Samples

ORG-029 | PFAS Extended List - Low Level (Water) | Batch BGE4521

Sample ID	Analyte	% Limits	% Recovery
BGE4521-BS1	Perfluorotridecanoic acid (PFTrDA)	60 - 140	267

Outliers: Surrogate / Extracted Internal Standards

ORG-029 | PFAS Extended List - Low Level (Matrix) | Batch BGE4521

Sample ID	Analyte	% Limits	% Recovery
MGE0347-01	Extraction Internal Standard 13C2 8:2FTS	50 - 150	## [1]
	Extraction Internal Standard 13C4 PFBA	50 - 150	18.0 [1]
	Extraction Internal Standard d3 N MeFOSAA	50 - 150	171 [1]
	Extraction Internal Standard d5 N EtFOSAA	50 - 150	## [1]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	## [1]
MGE0347-02	Extraction Internal Standard 13C4 PFBA	50 - 150	23.0 [1]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	## [1]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	183 [1]
	Extraction Internal Standard 13C2 PFDoDA	50 - 150	21.0 [1]
	Extraction Internal Standard 13C2 PFUnDA	50 - 150	27.0 [1]
	Extraction Internal Standard 13C2 PFTeDA	50 - 150	41.0 [1]
MGE0347-03	Extraction Internal Standard 13C2 6:2FTS	50 - 150	199 [1]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	189 [1]
	Extraction Internal Standard 13C4 PFBA	50 - 150	36.0 [1]
	Extraction Internal Standard d5 N EtFOSAA	50 - 150	152 [1]
MGE0347-04	Extraction Internal Standard d5 N EtFOSAA	50 - 150	154 [1]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	## [1]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	## [1]
	Extraction Internal Standard 13C4 PFBA	50 - 150	12.0 [1]

Outliers: QC Frequency

ORG-029 | PFAS Extended List - Low Level (Water) | Batch BGE4521

Analysis	QC Type	Expected	Reported
PFAS EXT LL -ISTD	Duplicate	1	0
	Matrix Spike	1	0
PFAS-Extended (LL)	Duplicate	1	0
	Matrix Spike	1	0

Quality Control MGE0347

ORG-029|PFAS Extended List - Low Level (Water) | Batch BGE4521

Analyte	Units	PQL	Blank	LCS %
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.010	91.6
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.010	107
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.010	107
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.010	97.5
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.010	104
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.010	<0.010	81.3
Perfluorobutanoic acid (PFBA)	µg/L	0.050	<0.050	96.8
Perfluoropentanoic acid (PFPeA)	µg/L	0.010	<0.010	97.4
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.010	102
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.010	97.0
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.010	99.4
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.010	99.7
Perfluorodecanoic acid (PFDA)	µg/L	0.010	<0.010	108
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.010	<0.010	106
Perfluorododecanoic acid (PFDoDA)	µg/L	0.010	<0.010	106
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.010	<0.010	267
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.050	<0.050	82.2
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	103
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.050	<0.050	94.9
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.010	<0.010	104
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.010	<0.010	88.3
Perfluorooctane sulfonamide (FOSA)	µg/L	0.050	<0.050	104
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	97.0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	95.4
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	105
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	117
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	102
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	95.0
Surrogate 13C8 PFOS	*%*		*80.8*	*83.8*
Surrogate 13C2 PFOA	*%*		*104*	*100*
Extraction Internal Standard 13C3 PFBS	*%*		*60.0*	*[NA]*
Extraction Internal Standard 18O2 PFHxS	*%*		*67.0*	*[NA]*
Extraction Internal Standard 13C4 PFOS	*%*		*61.0*	*[NA]*
Extraction Internal Standard 13C4 PFBA	*%*		*62.0*	*[NA]*
Extraction Internal Standard 13C3 PFPeA	*%*		*63.0*	*[NA]*
Extraction Internal Standard 13C2 PFHxA	*%*		*55.0*	*[NA]*
Extraction Internal Standard 13C4 PFHpA	*%*		*79.0*	*[NA]*
Extraction Internal Standard 13C4 PFOA	*%*		*75.0*	*[NA]*
Extraction Internal Standard 13C5 PFNA	*%*		*78.0*	*[NA]*
Extraction Internal Standard 13C2 PFDA	*%*		*69.0*	*[NA]*
Extraction Internal Standard 13C2 PFUnDA	*%*		*71.0*	*[NA]*
Extraction Internal Standard 13C2 PFDoDA	*%*		*69.0*	*[NA]*
Extraction Internal Standard 13C2 PFTeDA	*%*		*35.0 [1]*	*[NA] [1]*
Extraction Internal Standard 13C2 4:2FTS	*%*		*63.0*	*[NA]*
Extraction Internal Standard 13C2 6:2FTS	*%*		*106*	*[NA]*
Extraction Internal Standard 13C2 8:2FTS	*%*		*107*	*[NA]*
Extraction Internal Standard 13C8 FOSA	*%*		*69.0*	*[NA]*
Extraction Internal Standard d3 N MeFOSA	*%*		*101*	*[NA]*
Extraction Internal Standard d5 N EtFOSA	*%*		*96.0*	*[NA]*
Extraction Internal Standard d7 N MeFOSE	*%*		*103*	*[NA]*
Extraction Internal Standard d9 N EtFOSE	*%*		*100*	*[NA]*
Extraction Internal Standard d3 N MeFOSAA	*%*		*81.0*	*[NA]*
Extraction Internal Standard d5 N EtFOSAA	*%*		*98.0*	*[NA]*

QC Comments

Identifier	Description
[1]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

#1226670 1 of 2

Chain of Custody

JBS&G

COPY

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana OMP
DATE NEEDED BY: Standard TAT
LABORATORY BATCH NO.:
SAMPLERS [redacted]
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) tdufty@jbsg.com.au; (3) jscott@jbsg.com.au; (4)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_SW316_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW323_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW324_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW326_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW332_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW333_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW448_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW427_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW424_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW370_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW374_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW375_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW462_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW470_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW400_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW401_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC101_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC201_250527	Water	27/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC501_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC101_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC201_250528	Water	28/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250528	Water	28/5/25		1x PFAS bottle		X				

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MCE0019
Date Received: 2/06/25
Time Received: 12:40
Received By: ZJ
Temp: Cool/Ambient 9.3
Cooling: Ice/icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME: [redacted] DATE: 30/5/25 OF:	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Vinnu DATE: 30/5 5:29pm OF: CF	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.1°C ON ICE
NAME: [redacted] DATE: 30/5/25 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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#1226670 1 of 2

Chain of Custody

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COPY

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A
PROJECT NAME: Bandiana OMP
DATE NEEDED BY: Standard TAT
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) tdufty@jbsg.com.au; (3) jscott@jbsg.com.au; (4)

LABORATORY BATCH NO..
SAMPLERS [redacted]
QC LEVEL: NEPM (2013)

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_SW316_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW323_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW324_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW326_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW332_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW333_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW448_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW427_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW424_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW370_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW374_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW375_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW462_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW470_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW400_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW401_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC101_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC201_250527	Water	27/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC501_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC101_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC201_250528	Water	28/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250528	Water	28/5/25		1x PFAS bottle		X				

ENVIROLAB

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MQF0019
Date Received: 2/06/25
Time Received: 12:40
Received By: ZJ
Temp: Cool/Ambient 9.3
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME [redacted] DATE: 30/5/25 OF: JB[redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: Vikram U DATE: 3/6/25 5:29pm OF: CF	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.1°C ON ICE
NAME [redacted] DATE: 30/5/25 OF: [redacted]	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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#1226670 1 of 2

Chain of Custody

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COPY

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A	LABORATORY BATCH NO.:
PROJECT NAME: Bandiana OMP	SAMPLERS [redacted]
DATE NEEDED BY: Standard 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) tdufty@jbsg.com.au; (3) jscott@jbsg.com.au; (4)	

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
0445_SW316_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW323_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW324_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW326_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW332_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW333_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW448_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW427_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW424_250527	Water	27/5/25		1x PFAS bottle		X				
0445_SW370_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW374_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW375_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW462_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW470_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW400_250528	Water	28/5/25		1x PFAS bottle		X				
0445_SW401_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC101_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC201_250527	Water	27/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC501_250527	Water	27/5/25		1x PFAS bottle		X				
0445_QC101_250528	Water	28/5/25		1x PFAS bottle		X				
0445_QC201_250528	Water	28/5/25		1x PFAS bottle						Forward to Envirolab
0445_QC401_250528	Water	28/5/25		1x PFAS bottle		X				

Envirolab Services
25 Research Drive
Croydon South VIC 3136
Ph: (03) 9763 2500

Job No: MGF0019

Date Received: 2/06/25
Time Received: 12:40
Received By: ZJ
Temp: Cool/Ambient 9.3
Cooling: Ice/Icepack
Security: Intact/Broken/None

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME [redacted] DATE: 30/5/25 OF: J [redacted]	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: VIKRAM U DATE: 3/6/25 529PM OF: CF	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C 5.1°C ON ICE
NAME [redacted] DATE: 30/5/25 OF: [redacted]	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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2 of 2

Chain of Custody

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Copy

PROJECT NO (Esdat Ref.): VIC_0445_PFASOMP_24A	LABORATORY BATCH NO.:
PROJECT NAME: Bandiana OMP	SAMPLERS [redacted]
DATE NEEDED BY: Standard 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 [redacted]

COMMENTS / SPECIAL HANDLING / STORAGE OR DISPOSAL:

Forward to Envirolab with listed samples

	SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	pH	PFAS Full - STD Level	Hold	TYPE OF ASBESTOS ANALYSIS: IDENTIFICATION	TYPE OF ASBESTOS ANALYSIS: NEPM/WA	NOTES:
1	0445_QC201_250527	Water	27/5/25		1 X PFAS Bottle		X				
2	0445_QC201_250528	Water	28/5/25		1 X PFAS Bottle		X				
	SW388_250529	water	29/5/25		1x PFAS Bottle		X				
	QC401-250529	water	29/5/25		1x PFAS Bottle		X				

RELINQUISHED BY:	METHOD OF SHIPMENT:	RECEIVED BY:	FOR RECEIVING LAB USE ONLY:
NAME [redacted] DATE: ~~16/5/25~~ 30/5/25 OF: JBS	CONSIGNMENT NOTE NO. TRANSPORT CO.	NAME: DATE: OF:	COOLER SEAL – Yes..... No ..... Intact ..... Broken ..... COOLER TEMP ..... deg C
NAME [redacted] DATE: 30/5/25 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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Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Sample Receipt Advice MGF0019

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Attention	[redacted]

Sample Login Details

Your Reference	VIC_0445_PFASOMP_24A
Envirolab Reference	MGF0019
Date Sample Received	02/06/2025
Date Instructions Received	02/06/2025
Date Final Results Expected	10/06/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
Number of Samples	2 Water
Turnaround Time	5 Days
Temperatures / Cooling Methods	9.3°C Ice Pack

Additional Info

Sample storage - waters are routinely disposed at approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Where no sampling date has been supplied for some or all samples, the date of sample receipt has been used as the associated sampling date. The sampling dates are used to assess compliance to recommended Technical Holding Times.

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).

Please direct any queries to:

[redacted]

Analysis underway, details on the following page

Sample Receipt Advice MGF0019

Analysis Grid

The • indicates the testing you have requested. ***THIS IS NOT A REPORT OF THE RESULTS.***

	PFAS - Extended (LL)
MGF0019-01 Water | 27/05/2025 0445_QC201_250527	•
MGF0019-02 Water | 28/05/2025 0445_QC201_250528	•

Suite Details

Suite Name	Suite Analyses
PFAS - Extended (LL) | Water	PFAS EXT LL -ISTD, PFAS-Extended (LL)

Envirolab Services Pty Ltd
ABN 37 112 535 645 - 002
25 Research Drive Croydon South VIC 3136
ph +61 3 9763 2500
melbourne@envirolab.com.au
www.envirolab.com.au

Certificate of Analysis MGF0019

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Contact	[redacted]
Address	19/31 Queen St, MELBOURNE, VIC, 3000

Sample Details

Your Reference	VIC_0445_PFASOMP_24A
Number of Samples	2 Water
Date Samples Received	02/06/2025
Date Instructions Received	02/06/2025

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 soils and on an as received basis for other matrices.

Report Details

Date Final Results Expected	10/06/2025
Date of Issue	10/06/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.
Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	[redacted]
Laboratory Manager	[redacted]

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
MGF0019-01	0445_QC201_250527	Water	27/05/2025	02/06/2025
MGF0019-02	0445_QC201_250528	Water	28/05/2025	02/06/2025

Certificate of Analysis MGF0019

PFAS Extended List - Low Level (Water) - Analysed By Envirolab Services Sydney

Envirolab ID	Units	PQL	MGF0019-01	MGF0019-02
Your Reference			0445_QC201_2 50527	0445_QC201_2 50528
Date Sampled			27/05/2025	28/05/2025
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	0.040	0.039
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	0.024	0.027
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	0.25	0.23
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	0.012	<0.010
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	0.88	0.33
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.010	<0.010	<0.010
Perfluorobutanoic acid (PFBA)	µg/L	0.050	<0.050	<0.050
Perfluoropentanoic acid (PFPeA)	µg/L	0.010	0.082	<0.010
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	0.049	0.012
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	0.039	0.010
Perfluorooctanoic acid (PFOA)	µg/L	0.010	0.031	<0.010
Perfluorononanoic acid (PFNA)	µg/L	0.010	0.010	<0.010
Perfluorodecanoic acid (PFDA)	µg/L	0.010	<0.010	<0.010
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.010	<0.010	<0.010
Perfluorododecanoic acid (PFDoDA)	µg/L	0.010	<0.010	<0.010
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.010	<0.010	<0.010
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.050	<0.050	<0.050
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	<0.010
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.050	<0.050	<0.050
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.010	<0.010	<0.010
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.010	<0.010	<0.010
Perfluorooctane sulfonamide (FOSA)	µg/L	0.050	<0.050	<0.050
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	<0.10
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	<0.50
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	<0.050
Total +ve PFHxS+PFOS	µg/L	0.010	1.1	0.56
Total +ve PFOA+PFOS	µg/L	0.010	0.91	0.33
Total +ve PFHxS + PFOS + PFOA	µg/L	0.010	1.2	0.56
Total +ve PFAS (WA DER List)	µg/L	0.050	1.4	0.62
Total +ve PFAS	µg/L	0.10	1.4	0.65
Surrogate 13C8 PFOS	%		*79.4*	*76.3*
Surrogate 13C2 PFOA	%		*89.6*	*91.4*
Extraction Internal Standard 13C3 PFBS	%		*66.0*	*66.0*
Extraction Internal Standard 18O2 PFHxS	%		*100*	*98.0*
Extraction Internal Standard 13C4 PFOS	%		*96.0*	*98.0*
Extraction Internal Standard 13C4 PFBA	%		*## [1]*	*## [1]*
Extraction Internal Standard 13C3 PFPeA	%		*31.0 [1]*	*25.0 [1]*
Extraction Internal Standard 13C2 PFHxA	%		*60.0*	*50.0*
Extraction Internal Standard 13C4 PFHpA	%		*54.0*	*39.0 [1]*

Certificate of Analysis MGF0019

PFAS Extended List - Low Level (Water) - Analysed By Envirolab Services Sydney

Envirolab ID	Units	PQL	MGF0019-01	MGF0019-02
Your Reference			0445_QC201_250527	0445_QC201_250528
Date Sampled			27/05/2025	28/05/2025
Extraction Internal Standard 13C4 PFOA	%		*106*	*84.0*
Extraction Internal Standard 13C5 PFNA	%		*53.0*	*55.0*
Extraction Internal Standard 13C2 PFDA	%		*98.0*	*85.0*
Extraction Internal Standard 13C2 PFUnDA	%		*100*	*93.0*
Extraction Internal Standard 13C2 PFDoDA	%		*74.0*	*58.0*
Extraction Internal Standard 13C2 PFTeDA	%		*64.0*	*70.0*
Extraction Internal Standard 13C2 4:2FTS	%		*73.0*	*60.0*
Extraction Internal Standard 13C2 6:2FTS	%		*180 [1]*	*170 [1]*
Extraction Internal Standard 13C2 8:2FTS	%		*## [1]*	*195 [1]*
Extraction Internal Standard 13C8 FOSA	%		*84.0*	*75.0*
Extraction Internal Standard d3 N MeFOSA	%		*103*	*101*
Extraction Internal Standard d5 N EtFOSA	%		*98.0*	*92.0*
Extraction Internal Standard d7 N MeFOSE	%		*90.0*	*89.0*
Extraction Internal Standard d9 N EtFOSE	%		*91.0*	*90.0*
Extraction Internal Standard d3 N MeFOSAA	%		*135*	*113*
Extraction Internal Standard d5 N EtFOSAA	%		*148*	*148*

Result Comments

Identifier	Description
[1]	For PFAS Extracted Internal Standards denoted with ## or being outside the 50-150% acceptance range, the respective target analyte results may be unaffected, in other circumstances the PQL has been raised to accommodate the outlier(s).

Method Summary

Method ID	Methodology Summary
ORG-029	Soil/solid and sorbent samples are extracted with basified Methanol. Waters and soil/sorbent extracts are directly injected and/or concentrated/extracted using SPE. TCLP/ASLP leachates are centrifuged, the supernatant is then analysed (including amendment with solvent) - as per the option in AS4439.3. Analysis is undertaken with LC-MSMS. PFAS results include the sum of branched and linear isomers where applicable. Please note that PFAS results are corrected for Extracted Internal Standards (QSM 5.4 Table B-15 terminology), which are mass labelled analytes added prior to sample preparation to assess matrix effects and verify processing of the sample. PFAS analytes without a commercially available mass labelled analogue are corrected vs a closely eluting mass labelled PFAS compound. Surrogates are also reported, in this context they are mass labelled PFAS compounds added prior to extraction but are used as monitoring compounds only (not used for result correction). Envicarb (or similar) is used discretionally to remove interfering matrix components. Please contact the laboratory if estimates of Measurement Uncertainty are required as per WA DER.

Result Definitions

Identifier	Description
NR	Not reported
NEPM	National Environment Protection Measure
NS	Not specified
LCS	Laboratory Control Sample
RPD	Relative Percent Difference
>	Greater than
<	Less than
PQL	Practical Quantitation Limit
INS	Insufficient sample for this test
NA	Test not required
NT	Not tested
DOL	Samples rejected due to particulate overload (air filters only)
RFD	Samples rejected due to filter damage (air filters only)
RUD	Samples rejected due to uneven deposition (air filters only)
##	Indicates a laboratory acceptance criteria outlier, for further details, see Result Comments and/or QC Comments

Quality Control Definitions

Blank

This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, and is determined by processing solvents and reagents in exactly the same manner as for samples.

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.

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.

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.

Duplicate

This is the complete duplicate analysis of a sample from the process batch. The sample selected should be one where the analyte concentration is easily measurable.

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.

General Acceptance Criteria (GAC) - Analyte specific criteria applies for some analytes and is reflected in QC recovery tables.

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 QAQC tables for details (available on request); <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; 60-140% for organics (+/-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 typically insufficient in order to satisfy laboratory QA/QC protocols.

Miscellaneous Information

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. We have taken the sampling date as being the date received at the laboratory.

Two significant figures are reported for the majority of tests and with a high degree of confidence, for results <10*PQL, the second significant figure may be in doubt i.e. has a relatively high degree of uncertainty and is provided for information only.

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 or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS where sediment/solids are included by default.

Urine Analysis - The BEI values listed are taken from the 2022 edition of *TLVs and BEIs Threshold Limits by ACGIH*.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volume(s) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary MGF0019

Client Details

Client	JBS & G Australia Pty Ltd (Melbourne)
Your Reference	VIC_0445_PFASOMP_24A
Date Issued	10/06/2025

Recommended Holding Time Compliance

No recommended holding time exceedances

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	Yes	No Outliers
Surrogates / Extracted Internal Standards	No	Surrogates / Extracted ISTD Outliers Exist - See detailed list below
QC Frequency	No	QC Frequency Outliers Exist - See detailed list below

Surrogates/Extracted Internal Standards, Duplicates and/or Matrix Spikes are not always relevant/applicable to certain analyses and matrices. Therefore, said QC measures are deemed compliant in these situations by default. See Laboratory Acceptance Criteria for more information

Data Quality Assessment Summary MGF0019

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
PFAS EXT LL -ISTD | Water	1	27/05/2025	10/06/2025	10/06/2025	Yes
	2	28/05/2025	10/06/2025	10/06/2025	Yes
PFAS-Extended (LL) | Water	1	27/05/2025	10/06/2025	10/06/2025	Yes
	2	28/05/2025	10/06/2025	10/06/2025	Yes

Outliers: Surrogate / Extracted Internal Standards

ORG-029|PFAS Extended List - Low Level (Matrix)| Batch BGF1530

Sample ID	Analyte	% Limits	% Recovery
MGF0019-01	Extraction Internal Standard 13C4 PFBA	50 - 150	## [1]
	Extraction Internal Standard 13C3 PFPeA	50 - 150	31.0 [1]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	## [1]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	180 [1]
MGF0019-02	Extraction Internal Standard 13C4 PFHpA	50 - 150	39.0 [1]
	Extraction Internal Standard 13C4 PFBA	50 - 150	## [1]
	Extraction Internal Standard 13C3 PFPeA	50 - 150	25.0 [1]
	Extraction Internal Standard 13C2 8:2FTS	50 - 150	195 [1]
	Extraction Internal Standard 13C2 6:2FTS	50 - 150	170 [1]

Outliers: QC Frequency

ORG-029|PFAS Extended List - Low Level (Water)| Batch BGF1530

Analysis	QC Type	Expected	Reported
PFAS EXT LL -ISTD	Duplicate	1	0
	Matrix Spike	1	0
PFAS-Extended (LL)	Duplicate	1	0
	Matrix Spike	1	0

Quality Control MGF0019

ORG-029|PFAS Extended List - Low Level (Water) | Batch BGF1530

Analyte	Units	PQL	Blank	LCS %
Perfluorobutanesulfonic acid (PFBS)	µg/L	0.010	<0.010	96.2
Perfluoropentanesulfonic acid (PFPeS)	µg/L	0.010	<0.010	107
Perfluorohexanesulfonic acid (PFHxS)	µg/L	0.010	<0.010	107
Perfluoroheptanesulfonic acid (PFHpS)	µg/L	0.010	<0.010	101
Perfluorooctanesulfonic acid (PFOS)	µg/L	0.010	<0.010	104
Perfluorodecanesulfonic acid (PFDS)	µg/L	0.010	<0.010	89.3
Perfluorobutanoic acid (PFBA)	µg/L	0.050	<0.050	98.6
Perfluoropentanoic acid (PFPeA)	µg/L	0.010	<0.010	101
Perfluorohexanoic acid (PFHxA)	µg/L	0.010	<0.010	102
Perfluoroheptanoic acid (PFHpA)	µg/L	0.010	<0.010	106
Perfluorooctanoic acid (PFOA)	µg/L	0.010	<0.010	96.7
Perfluorononanoic acid (PFNA)	µg/L	0.010	<0.010	101
Perfluorodecanoic acid (PFDA)	µg/L	0.010	<0.010	101
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.010	<0.010	96.8
Perfluorododecanoic acid (PFDoDA)	µg/L	0.010	<0.010	96.1
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.010	<0.010	122
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.050	<0.050	79.7
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.010	<0.010	99.4
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.050	<0.050	107
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.010	<0.010	91.2
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.010	<0.010	116
Perfluorooctane sulfonamide (FOSA)	µg/L	0.050	<0.050	99.7
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.050	<0.050	78.5
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.10	<0.10	76.3
N-Methyl perfluorooctane sulfonamidoethanol	µg/L	0.050	<0.050	90.4
N-Ethyl perfluorooctane sulfonamidoethanol	µg/L	0.50	<0.50	100
N-Methyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	98.2
N-Ethyl perfluorooctane sulfonamidoacetic acid	µg/L	0.050	<0.050	102
Surrogate 13C8 PFOS	*%*		*77.8*	*85.0*
Surrogate 13C2 PFOA	*%*		*106*	*104*
Extraction Internal Standard 13C3 PFBS	*%*		*74.0*	*[NA]*
Extraction Internal Standard 18O2 PFHxS	*%*		*84.0*	*[NA]*
Extraction Internal Standard 13C4 PFOS	*%*		*78.0*	*[NA]*
Extraction Internal Standard 13C4 PFBA	*%*		*86.0*	*[NA]*
Extraction Internal Standard 13C3 PFPeA	*%*		*78.0*	*[NA]*
Extraction Internal Standard 13C2 PFHxA	*%*		*78.0*	*[NA]*
Extraction Internal Standard 13C4 PFHpA	*%*		*81.0*	*[NA]*
Extraction Internal Standard 13C4 PFOA	*%*		*87.0*	*[NA]*
Extraction Internal Standard 13C5 PFNA	*%*		*81.0*	*[NA]*
Extraction Internal Standard 13C2 PFDA	*%*		*75.0*	*[NA]*
Extraction Internal Standard 13C2 PFUnDA	*%*		*75.0*	*[NA]*
Extraction Internal Standard 13C2 PFDoDA	*%*		*80.0*	*[NA]*
Extraction Internal Standard 13C2 PFTeDA	*%*		*61.0*	*[NA]*
Extraction Internal Standard 13C2 4:2FTS	*%*		*113*	*[NA]*
Extraction Internal Standard 13C2 6:2FTS	*%*		*129*	*[NA]*
Extraction Internal Standard 13C2 8:2FTS	*%*		*120*	*[NA]*
Extraction Internal Standard 13C8 FOSA	*%*		*87.0*	*[NA]*
Extraction Internal Standard d3 N MeFOSA	*%*		*106*	*[NA]*
Extraction Internal Standard d5 N EtFOSA	*%*		*105*	*[NA]*
Extraction Internal Standard d7 N MeFOSE	*%*		*99.0*	*[NA]*
Extraction Internal Standard d9 N EtFOSE	*%*		*96.0*	*[NA]*
Extraction Internal Standard d3 N MeFOSAA	*%*		*98.0*	*[NA]*
Extraction Internal Standard d5 N EtFOSAA	*%*		*107*	*[NA]*

Appendix G Water Quality Parameter Descriptions

Descriptions of the water quality parameter ranges for EC, pH, DO and ORP have been summarised below.

Table H.1: Water Quality Parameter Descriptions

Parameter	Description	Reference or Comment
EC	Freshwater: 0–2,500 µS/cm Brackish Water: 2,500–5,000 µS/cm Saline Water: 5,000–50,000 µS/cm Seawater: 50,000 µS/cm	Based on general guidance discussed in Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Water Quality Guidelines (ANZECC and ARMCANZ 2000).
pH	Acidic: <6.5 Neutral: 6.5–8.5 Alkaline: >8.5	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.
DO	Hypoxic: <2 mg/L Poor aerobic: 2–5 mg/L Good aerobic: 5–8 mg/L Excellent aerobic: >8 mg/L	Based on Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018) and World Health Organisation Guidelines for Drinking-Water Quality (WHO 2022) water quality standards.
ORP	Reducing: <0 mV Moderately oxidising: 0–200 mV Oxidising: 200–400 mV Highly Oxidising: >400 mV	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.

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Appendix F OMP Sampling Event Report – October 2025

Bandiana Military Area – PFAS OMP Sampling Event Report – October 2025

Department of Defence

Report

JBS&G | 61395 | 172,502

4 March 2026

JBS&G

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

We pay respect to Elders past and present and in the spirit of reconciliation, we commit to working together for our shared future.

Caring for Country The Journey of JBS&G
Artist: Patrick Caruso, Eastern Arrernte

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Appendix D **Data Quality Assessment**

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Appendix F **Laboratory Certificates and Chain of Custody**

Appendix G **Water Quality Parameter Descriptions**

Abbreviations

Term	Definition
AFFF	Aqueous film forming foam
ASC NEPM	National Environment Protection (Assessment of Site Contamination) Measure 1999 (as amended in 2013)
CSM	Conceptual Site Model
DCMM	Defence Contamination Management Manual
Defence	Department of Defence
DO	Dissolved Oxygen
DQI	Data Quality Indicator
EC	Electrical Conductivity
EPA	Environment Protection Authority Victoria
HHERA	Human Health an Ecological Risk Assessment
JBS&G	JBS&G Australia Pty Ltd
LOR	Limit of Reporting
NATA	National Association of Testing Authorities
NEMP	Heads of EPAs Australia and New Zealand (HEPA), PFAS National Environmental Management Plan – Version 3; 04 March 2025
NHMRC	National Health and Medical Research Council
NSW	New South Wales
OMP	Ongoing Monitoring Plan
OMR	Ongoing Monitoring Report
ORP	Oxidation reduction potential
PFAS	Per- and poly-fluoroalkyl substances
PFBS	Perfluorobutanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFOA	Perfluorooctanoic acid
PFOS	Perfluorooctanesulfonic acid
pH	Potential of hydrogen
PMAP	PFAS Area Management Plan
QA/QC	Quality Assurance / Quality Control
RPD	Relative Percent Difference
SAQP	Sampling, Analysis and Quality Plan
SER	Sampling Event Report
USEPA	United States Environment Protection Authority
WA DER	Western Australia Department of Water and Environmental Regulation

Measurements

Term	Definition
°C	Degrees Celsius
cm	Centimetres
m	Metres
m AHD	Metres Australian Height Datum
mbgl	Metres below ground level
mBTOC	Metres below top of case
mg/L	Milligrams per litre
mm	Millimetres
mV	Millivolts
µg/L	Micrograms per Litre
µS/cm	Microsiemens Per Centimetre

1. Introduction

1.1 Background

JBS&G Australia (JBS&G) was engaged by the Department of Defence (Defence) to conduct ongoing monitoring on and around the Bandiana Military Area, Victoria (the base) as part of the per- and poly-fluoroalkyl substances (PFAS) Management Area Plan (PMAP) Delivery Services. These works are part of a National Defence program to understand the nature, extent and potential risks of PFAS contamination resulting from the historical use of aqueous film forming foam (AFFF) on and adjacent identified Defence properties across Australia.

Ongoing monitoring of surface water and groundwater is set out in an Ongoing Monitoring Plan (OMP) that is reviewed and/or updated annually. The monitoring undertaken forms an important aspect of managing PFAS contamination to understand changes in the nature and extent of contamination. The findings are used to inform whether risks to receptors have changed, and whether a change in management approach may be required. The monitoring set out in this report was completed under the 2025 OMP (Defence 2025).

The base, that is the subject of this report, is located adjacent the New South Wales (NSW) – Victoria State border southeast of Wodonga, Victoria. The base sits within a broader Management Area, originally derived based on the results of the Detailed Site Investigation (Golder 2018) and relate to pathways in surface water and groundwater for potential PFAS contamination derived from the base.

The location of the base and wider Management Area in which is shown in **Appendix A, Figure 1.**

This report documents the observations, information and data collected during the October 2025 sampling event in the Management Area in accordance with the 2025 OMP and the Sampling and Analysis Quality Plan (SAQP) (JBS&G 2025).

1.2 Objectives

The objective of the OMP program is to monitor PFAS concentrations and extent in surface water and groundwater in the Management Area. The findings of the OMP program support risk management decisions by Defence and the Victorian Government to protect human health and the environment.

The objectives of the monitoring specified in the 2025 OMP are to:

- Evaluate changes in risk from PFAS in surface water and groundwater associated with base sources of PFAS;
- Monitor the migration of PFAS in surface water and groundwater from the base;
- Evaluate the nature and extent of PFAS impact in surface water and groundwater;
- Provide confirmation of the current understanding of risks from PFAS within surface water and groundwater; and
- Where relevant, provide supporting data for assessment of PFAS management actions.

2. Scope of Work

2.1 Summary of Work Undertaken

All works completed as part of this sampling event report (SER) were completed in accordance with the OMP SAQP (JBS&G 2025). Any deviations from the proposed scope have been listed in **Section 3**. The scope which was completed is as follows:

- Organise fieldworks and obtain permission to access all monitoring locations;
- Gauging of groundwater monitoring locations;
- Collection of groundwater samples and field parameters;
- Collection of surface water samples and field parameters;
- Analysis of samples by accredited laboratories (as per **Section 2.3**);
- Data management of the OMP field and laboratory data in Defence ESdat database; and
- Preparation of this SER.

2.2 Sampling Locations

2.2.1 Groundwater

A total of 55 groundwater samples were scoped to be sampled as part of the OMP, however, only 53 groundwater samples were collected across the Management Area as part of the October sampling event. Deviations from the SAQP have been provided in **Table 3.1**. Sampling locations and respective catchments are listed in the following **Table 2.1** and are shown in **Appendix A, Figure 2**.

Table 2.1: OMP Groundwater Locations and Catchments

Catchment	Total No.	OMP Groundwater Locations
On-base Locations		
Jack in the Box Creek	14	MW315, MW317, MW304, MW305, MW307, MW311, MW312, MW051, MW416, MW323, MW329, MW319, MW321, MW406
Kiewa River	25	MW342, MW343, MW344, MW345, MW346, MW009, MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW042, MW043, MW046_I, MW046_D, MW052, MW350_S, MW350_D, MW352, MW354, MW403, MW404, MW351
Off-base Locations		
Jack in the Box Creek	5	MW302, MW303, MW313, MW360, MW361
Kiewa River	9	MW356, MW357, MW411, MW412, MW413, MW414, MW415, MW447, OTH019

Notes: MW406 was also sampled as part of this sampling event, however is not typically part of the OMP. Refer to **Section 3**.

Multiple geological units and corresponding groundwater aquifers are present across and beneath the base and the Management Area. In general, groundwater wells within the Jack in the Box Creek catchment, on the western side of the Management Area, are within the Shepparton Colluvium. Wells within the Kiewa River catchment, on the eastern side of the Management Area, are within the Shepparton Fluvium and Coonambidgal Fluvium. The following **Table 2.2** divides the OMP wells into their respective aquifers.

OTH019 is a private groundwater well off-base and is sampled from a tap which is understood to be connected to an above ground storage tank that holds water from that well. The construction details of the well are

unknown. As such, this sample location has not been assigned an aquifer and has not been shown in the following **Table 2.2**.

Table 2.2: OMP Groundwater Monitoring Locations and Aquifers

Geological Unit	Aquifer Interval	Aquifer Depth (mbgl)	Total Number	OMP Wells
Shepparton Colluvium	Shallow 'S'	Variable, based on position on-base. Identified between approximately 2.5 and 42 mbgl	21	MW051, MW302, MW303, MW304, MW305, MW307, MW311, MW312, MW313, MW315, MW317, MW319, MW321, MW323, MW329, MW342, MW343, MW360, MW361, MW406, MW416
Shepparton Fluvium and Coonambidgal Fluvium	Shallow 'S'	0.07-10.0	26	MW012, MW016, MW018, MW020, MW029, MW034, MW035, MW043, MW052, MW344, MW345, MW346, MW350_S, MW351, MW352, MW354, MW356, MW357, MW403, MW404, MW411, MW412, MW413, MW414, MW415, MW447
	Intermediate 'I'	10.0-15.0	3	MW009, MW042, MW046_I
	Deep 'D'	>15.0	2	MW046_D, MW350_D

2.2.2 Surface water

A total of 53 surface water locations were scoped to be sampled as part of the OMP, however, only 34 samples were collected across the Management Area as part of the October sampling event. Deviations from the SAQP have been provided in **Table 3.1**. Sampling locations and respective catchments are listed in the following **Table 2.3** and are shown in **Appendix A, Figure 3A/B**.

Table 2.3: OMP Surface Water Locations and Catchments

Catchment	Total No.	OMP Surface Water Locations
On-base Locations		
Jack in the Box Creek Catchment	3	SW323, SW326, SW338
Kiewa River Catchment	8	SW346, SW349, SW355, SW374, SW375, SW382, SW387, SW388
Off-base locations		
Jack in the Box Creek Catchment	5	SW427, SW430, SW431, SW432, SW434
Kiewa River Catchment	18	SW409, SW403, SW405, SW412, SW462, SW395, SW396, SW397, SW400, SW401, SW470, SW471, SW487, SW390, SW393, SW398, SW404, SW416

2.3 Sample Analysis

All water samples were submitted to the following National Association of Testing Authorities (NATA) accredited laboratories for analysis in accordance with **Table 2.4:**

- Eurofins Melbourne (NATA accreditation number 1261); and
- ALS Melbourne (NATA accreditation number 825).

Table 2.4: Sample analytical schedule

No. primary samples	Analysis	Method	Limit of Reporting (LOR)
81	Extended PFAS analytical suite	LC/MS-MS	0.001 – 0.05 µg/L
6[1]	Extended PFAS analytical suite – Trace Level	LC/MS-MS	0.001 – 0.005 µg/L

Note:

1. Locations that trace analysis occurred include MW351, MW352, MW356, OTH019, SW416 and SW390.

All methods are in general accordance with Appendix D, PFAS Construction and Maintenance Framework (Version 4, May 2025).

Trace level analysis was adopted for six groundwater and surface water locations following consultation and agreement with Defence. The six locations are where a groundwater bore is a 'point of use' or surface water concentrations up and down gradient of the base in the Kiewa River, which could influence the North East Water drinking water extraction point on Wodonga Creek. The lower analytical limit was adopted for this sampling event in response to National Health and Medical Research Council (NHMRC) releasing finalised health-based drinking water guideline values (NHMRC, 2025), which derived comparatively lower PFAS criteria to those set out in the PFAS NEMP (HEPA, 2025) (see **Section 5** for further details).

3. Deviations from the SAQP/OMP

Deviations are not uncommon for a variety of reasons including weather conditions, access and safety concerns that inhibit the ability to collect some samples at particular locations. The following **Table 3.1** provides a summary of these reasons during the sampling event, which were beyond JBS&G's control, and a summary of the effects on the program.

Table 3.1: Deviations from OMP SAQP Summary

Identified Deviation	Impact on OMP Program
The following surface water locations could not be sampled as they were dry: SW307, SW310, SW313, SW316, SW321, SW332, SW380, SW463, SW302, SW311, SW322, SW324, SW333, SW340, SW370, SW379, SW424, SW448	It is noted in the OMP SAQP (JBS&G 2025) that the on-base drains and surface water channels are ephemeral and only have flow during or immediately following rainfall. The locations which were not able to be sampled are located primary in the western portion of South Bandiana and around Source Area 13 on East Bandiana. While additional data from these locations would assist in identifying trends, the PFAS conditions are well understood in these areas based on previous investigations, particularly the Mass Flux Study (JBS&G 2024). This deviation is not considered to effect the objective of the OMP.
One surface water location, SW336 was unable to be accessed during the duration of the sampling program.	SW336 is located on base within the Former Fire Training Area settling pond (Source Area 6) of South Bandiana. The fire training area is fenced and locked. During the duration of works JBS&G were unable to access this area. Downgradient location SW323 was able to be sampled during this event. This deviation is not considered to affect the objective of the OMP
Two monitoring wells, MW318 and MW353 were dry or had insufficient water column to allow for sampling.	Adjacent locations to MW318 which target the same aquifer MW315 and MW317 were all able to be sampled during the event. Downgradient locations of MW353 which target the same aquifer MW016, MW035 and MW043 were all able to be sampled. These deviations are not considered to effect the objective of the OMP.
One monitoring well, MW315 was sampled using a bailer in a water column >1.0m.	Several unsuccessful attempts were made to deploy a HydraSleeve™ in MW315 despite there being sufficient water column. A partial blockage due to roots may have been the cause. Instead, this location was sampled using a bailer. This deviation is not considered to effect the objective of the OMP, although this methodology may have attributed to a first time detectable result, albeit low, at this location. See **Table 8.2** for further details.
One monitoring well MW056 was not sampled as a sample was mistakenly collected from an adjacent well MW406 installed in the deeper Shepparton Colluvium, rather than shallower, perched aquifer.	MW056 is the only monitoring location targeting the perched water in Source Area 9. This location has however returned samples that indicate stability in PFAS concentration in this area, indicating little historic change in risk profile. In addition, surface water samples targeting the discharge point of the perched water in Source Area 9 (SW346, SW349 and SW355) were all able to be sampling during the event. These surface water samples are therefore considered to still monitor risk associated with the perched groundwater. Considering the above, this deviation is not considered to effect the objective of the OMP.

Overall, the deviations from the OMP SAQP (JBS&G 2025) are not considered to affect the data obtained as part of the program. The data set generated as part of this sampling event has assisted in monitoring changes in PFAS concentrations at the base and across the Management Area.

4. Sampling Methodology

4.1 Groundwater Sampling Methodology

Groundwater sampling was undertaken in accordance with the methodologies outlined in **Table 4.1.** Groundwater gauging and sampling was completed between 13 and 17 October 2025. Further detail is provided in the OMP SAQP (JBS&G 2025).

Table 4.1: Groundwater Sampling Methodology

Activity	Details
Well gauging	Prior to sampling, groundwater levels were gauged with an interface probe and measured against a specific mark at the top of the well casing, to assess standing water levels. As part of gauging, the well water column was measured, which determined the sampling method: > 1.0 m was sampled via HydraSleeve™, while < 1.0 m was sampled via bailer.
HydraSleeve™ deployment	New HydraSleeves™ were deployed to approximately 10 cm above the base of wells or accumulated sediment layer and left for a minimum of 24 hours. The HydraSleeves™ were double weighted to ensure correct positioning.
HydraSleeve™ sample retrieval	The groundwater sample was collected by pulling the HydraSleeve™ up through the water column and to the surface at a rate of approximately 30 cm per second. The recovered water sample was decanted into the appropriate laboratory supplied sample bottles.
Field parameters	Groundwater field parameters were obtained ex situ, using water remaining in the HydraSleeves™ following sampling. Field measurements recorded comprised the following: temperature, electrical conductivity (EC), dissolved oxygen (DO), oxidation-reduction potential (ORP) and pH.

4.2 Surface Water Sampling Methodology

Surface water sampling was undertaken as per the details in **Table 4.2.** Surface water sampling was completed between 13 and 17 October 2025. Further detail is provided in the OMP SAQP (JBS&G 2025).

Table 4.2: Surface Water Sampling Methodology

Activity	Details
Surface water sampling	Surface water samples were collected directly into the laboratory supplied sample container. At each sample location a new sample container was lowered into the water at least 10 cm below the surface (where possible), with the opening facing down to avoid collection of surface films. The cap was applied immediately once the sample container was full. Where surface water was difficult to access, the sample container was attached to the telescopic pole, which was lowered into the water body. The telescopic pole was attached so that the telescopic pole was not in direct contact with the opening of the sample container. During sampling, features such as discolouration, staining, odours and other indications of contamination were noted. Field observations such as flow, turbidity, presence of suspended solids and odours, sheen, oily film, floating debris or frothing were recorded on field sampling sheets. The condition of the water body from which the sample was obtained included a record of the water body type, qualitative flow speed (e.g. stagnant, gentle flow, high flow) and channel width, was also recorded.
Field parameters	Surface water field parameters were obtained at the time of sampling. Field measurements recorded comprised the following: temperature, EC, DO, ORP and pH.

4.3 Common Sampling Methodology

During both surface water and groundwater sampling, decontamination and a Quality Assurance/Quality Control (QA/QC) program was implemented. The methodology for both of these activities is presented in **Table 4.3**. Further detail is provided in the OMP SAQP (JBS&G 2025).

Table 4.3: Common Sampling Methodology

Activity	Details
Decontamination	All reusable monitoring equipment (e.g. interface probe) was cleaned using PFAS-free detergent and PFAS-free deionised water supplied by the analytical laboratory.
Quality Assurance/Quality Control (QA/QC)	The QA/QC program was conducted as per the SAQP (JBS&G 2025). The program included sampling as follows: • Field duplicate (inter-laboratory) samples at 1 per 10 primary samples; • Field triplicate (intra-laboratory) samples at 1 per 10 primary samples; • Rinsate blank samples as one per day, collected from reusable equipment (e.g. interface probe); • Field blank samples collected at a rate of one per day (groundwater and surface water); and • Trip blank samples submitted at a rate of one per laboratory batch (groundwater and surface water).

5. Screening Criteria

In order evaluate results of monitoring undertaken, reference has been made to the Environment Reference Standard (Victorian Government 2021) (ERS), made under Section 93 of the Environment Protection Act 2017 (VIC). The ERS requires environmental values of groundwater and surface water to be protected, according to the natural salinity of the groundwater and geographic region in the case of surface water.

As per the SAQP (JBS&G 2025), and in accordance with the relevant environmental values the analytical data was screened against relevant Tier 1 Guidance Values as outlined in the PFAS National Environmental Management Plan (NEMP) (HEPA 2025) and NHMRC Australian Drinking Water Guidelines (NHMRC, 2025) to identify if the base risk profile has changed compared to the current risk profile.

The adopted Tier 1 screening criteria for the relevant environmental values are provided in the following **Table 5.1**. It should be noted that surface water interacts with groundwater in off-base areas. As such, from a screening perspective, the applicable groundwater criteria were also applied to surface water for the purposes of this assessment.

Table 5.1: Tier 1 Screening Criteria for Water

Adopted Tier 1 Screening Criteria	Relevant Environmental Value	PFOS/PFHxS	PFOS	PFHxS	PFOA	PFBS
Freshwater: High conservation/ecological value systems (99% species protection)	Water Dependent Ecosystems and Species	0.00023 µg/L	-	-	19 µg/L	-
Freshwater: Slightly to moderately disturbed systems (95% species protection)		0.13 µg/L	-	-	220 µg/L	-
Drinking water	Traditional Owner Cultural Values, Agriculture and Irrigation (Irrigation and stock watering)	-	0.008 µg/L	0.03 µg/L	0.2 µg/L	1.0 µg/L
Recreational water	Water-based Recreation (Primary Contact Recreation, Secondary Contact, Aesthetic Enjoyment)	2 µg/L	-	-	10 µg/L	-

Note: PFOS – perfluorooctanesulfonic acid, PFHxS – perfluorohexanesulfonic acid, PFOA – perfluorooctanoic acid, and PFBS – perfluorobutane sulfonic acid.

HEPA 2025 has adopted trigger values or species protection levels for toxicants, which provide guidance for assessment of aquatic ecosystems. Percent species protection levels range from 80% (highly disturbed systems) to 99% (largely unmodified systems). The water bodies on and surrounding the base range in ecosystem disturbance and modification, and as such different protection levels apply. The following is a general guide and justification for adopted species protection based on water feature:

- **On-base constructed stormwater channels, swales or pipework:** No species protection, as protection of environmental values in artificial stormwater drains is not a requirement under the ERS;
- **On-base stormwater pond, dam or depression**: 95% species protection adopted as vegetation is generally present in and around the moderately to highly modified feature which supports a freshwater ecosystem; and
- **On and off-base water bodies (i.e. rivers, creeks, lakes and wetlands)**: 99% species protection adopted.

In accordance with the SAQP (JBS&G 2025) and for the purposes of this assessment, all results have been compared to 99% species protection as all waters sampled have the potential to migrate into on and off-base creeks, lakes, wetlands and retention basins. The NEMP recommends the adoption of this criteria owing to bioaccumulation and biomagnification in wildlife. The screening criteria for 95% species protection have been provided for reference regarding on-base stormwater ponds, dams or depressions.

In the absence of a published guideline value for irrigation and stock watering, the drinking water values have been considered as an initial screening value, as is consistent with the Human Health an Ecological Risk Assessment (HHERA) (Golder 2020).

No criteria have been adopted for the environmental values Potable Mineral Water Supply, Industrial and Commercial and Geothermal Properties, as these uses are considered unlikely to be realised within the Management Area. No criteria have been adopted for the environmental value Buildings and Structures as no PFAS criteria have been developed for this scenario and not known to affect the integrity of structures.

It is acknowledged that in January 2026, the NHRMC released draft recreational water guidelines for public consultation. Defence is considering how the draft guidelines, if adopted, may affect its PFAS Investigation and Management Program, and communities surrounding the Defence Estate. Until the revised PFAS guideline values are finalised and published, the current guideline values remain in effect.

6. Summary of Data Reliability Assessment

The field and lab QA/QC program including Data Quality Indicators (DQIs) are presented within the SAQP (JBS&G 2025). The data reliability assessment, provided in **Appendix D,** concluded that the field data and analytical results are representative of conditions in the Management Area and the dataset is adequately reliable for the objective of this SER.

The project target for data reliability was 95% compliance with the DQIs. Based on available field and laboratory QA/QC data, 96% compliance was achieved.

All data collected during this event has been reviewed and uploaded to the Defence ESdat database in accordance with Annex L of the Defence Contamination Management Manual (DCMM) (Defence 2021).

7. Field Parameters and Observations

The following sections detail the rainfall, groundwater and surface water monitoring data collected during the sampling event.

7.1 Weather Conditions

The 2025 OMP (Defence 2025) recommends that OMP surface water sampling is completed after a reasonable rain event (i.e. 35 mm of rain over a 4-day period) if possible, as many of the water bodies targeted by the OMP are ephemeral.

During the October 2025 sampling event (13 to 17 October 2025) a total of 0.5 mm of rain was recorded at the nearest weather station in Wodonga (weather station 082056). The monthly rainfall for October 2025 (41.2mm) was below the historical mean of 67.7 mm (based on 1898 to 2025 data) (Bureau of Meteorology (BOM) 2025). No reasonable rain event (as defined above) was recorded during the month of October.

During the sampling event, a total of 53 surface water locations were proposed to be sampled. Due to dry conditions, only 34 surface water samples could be collected between 13 and 17 October. These locations however targeted the larger and more permanent water bodies including rivers, creeks, lakes and oxbows which are less susceptible to rainfall.

7.2 Groundwater

7.2.1 Access and Condition of Groundwater Monitoring Wells

The groundwater monitoring well network was accessible during the sampling event. No issues with groundwater monitoring well integrity were identified with the exception of MW315, where issues were encountered during the attempted deployment of the HydraSleeve™ indicating a potential partial blockage due to ingress of tree roots or similar.

7.2.2 Groundwater Field Parameters

Groundwater field parameters are presented in **Table C2, Appendix C**. The field parameters were recorded ex-situ with remaining groundwater from the HydraSleeve™ following sampling. A summary of the field parameters has been presented in **Table 7.1.** A guide to the parameter descriptions has been provided in **Appendix G**.

Table 7.1: Groundwater Field Parameters Summary

Unit	Parameter	Minimum	Maximum	Comment
Shepparton Colluvium – Shallow Aquifer (21 wells)	DO (mg/L)	0.45	5.40	Hypoxic to good aerobic
	EC (µs/cm)	625	12,413	Freshwater to saline
	ORP (mV)	-131.4	220.6	Reducing to oxidising
	Temperature (°C)	18.1	22.3	—
	pH (-)	5.62	7.56	Acidic to slightly alkaline
Shepparton and Coonambidgal Fluvium – Shallow Aquifer (26 wells)	DO (mg/L)	0.81	5.50	Hypoxic to good aerobic
	EC (µs/cm)	56	5,052	Freshwater to saline
	ORP (mV)	-58.7	221	Reducing to oxidising
	Temperature (°C)	15.3	22.7	—
	pH (-)	5.68	7.56	Acidic to neutral
	DO (mg/L)	1.46	2.39	Hypoxic to low aerobic (low-oxic)
	EC (µs/cm)	247	293	Freshwater

Unit	Parameter	Minimum	Maximum	Comment
Shepparton and Coonambidgal Fluvium – Intermediate Aquifer (MW009, MW042, MW046_I)	ORP (mV)	107.8	205.4	Moderately oxidising to oxidising
	Temperature (°C)	17.3	19.1	—
	pH (-)	6.07	6.44	Acidic
Shepparton and Coonambidgal Fluvium – Deep Aquifer (MW046_D, MW350_D)	DO (mg/L)	2.92	2.95	Poor aerobic
	EC (µs/cm)	245	267	Freshwater
	ORP (mV)	54.1	156.3	Oxidising (slightly to moderately)
	Temperature (°C)	19.4	19.6	—
	pH (-)	6.29	6.57	Acidic to neutral
-Shepparton and Coonambidgal Fluvium# (OTH019)	DO (mg/L)	5.12		Good aerobic
	EC (µs/cm)	310		Freshwater
	ORP (mV)	65.5		Moderately oxidising
	Temperature (°C)	17.3		-
	pH (-)	6.26		Acidic

Note:

#: Construction details of OTH019 groundwater well are unknown, and as such has not been assigned an aquifer depth.

7.2.3 Groundwater Field Observations

The following visual and olfactory observations were made during groundwater sampling:

- Groundwater samples displayed varied levels of turbidity during sampling. A total of 20 samples were observed to be clear while 31 samples had a turbidity ranging from low to high;
- The colour of groundwater samples ranged from colourless (26 samples) to light brown (10 samples), brown (4), light grey (1), grey (2), grey-white (6), grey-brown (1), light yellow (1), orange (1) and red-brown (1);
- Odour was identified at four groundwater locations which included sulphur (3) and chlorine (1);
- Foaming was observed at seven groundwater locations during a 'shake test' including MW302, MW052, MW303, MW304, MW305, MW307 and MW350_S;
- No sheen or other visual indications of contamination were observed in any of the groundwater samples; and
- Sediment within the HydraSleeves™ were identified in eight monitoring wells - MW312, MW029, MW354, MW350_S, MW052, MW035, MW020 and MW356.

7.3 Surface Water

7.3.1 Surface Water Monitoring Access

With the exception of SW336 (see **Section 3**), all surface water monitoring locations which contained water were accessible during the sampling event.

7.3.2 Surface Water Field Parameters

Surface water field parameters are presented in **Appendix C, Table C3.** The field parameters were recorded in situ at the time of sampling. A summary of the field parameters has been presented in **Table 7.2.** A guide to the parameter descriptions has been provided in **Appendix G.**

Table 7.2: Surface Water Field Parameters Summary

Water Body	Parameter	Minimum	Maximum	
Jack in the Box Creek (5 locations)	DO (mg/L)	5.54	9.91	Good aerobic to excellent aerobic
	EC (µs/cm)	37.6	137.6	Freshwater
	ORP (mV)	7.2	186.9	Moderately oxidising
	Temperature (°C)	14.2	22.30	—
	pH (-)	6.69	7.46	Neutral
Kiewa River (5 locations)	DO (mg/L)	5.84	9.53	Good aerobic to excellent aerobic
	EC (µs/cm)	22.3	498.0	Freshwater
	ORP (mV)	65.5	184.9	Moderately oxidising
	Temperature (°C)	14.7	18.9	—
	pH (-)	6.75	8.90	Neutral to Alkaline
Middle Creek (SW393)	DO (mg/L)	5.97		Good aerobic
	EC (µs/cm)	256.0		Freshwater
	ORP (mV)	74.1		Moderately oxidising
	Temperature (°C)	18.5		—
	pH (-)	8.33		Neutral
Kiewa River Floodplain Oxbow (10 locations)	DO (mg/L)	1.22	7.36	Hypoxic to good aerobic
	EC (µs/cm)	71.6	575.0	Freshwater
	ORP (mV)	75.2	220.2	Moderately oxidising to oxidising
	Temperature (°C)	17.5	28.2	—
	pH (-)	6.43	7.24	Acidic to neutral
Ornamental Pond (SW346, SW349, SW355)	DO (mg/L)	1.35	5.90	Hypoxic to good aerobic
	EC (µs/cm)	76.9	141.8	Freshwater
	ORP (mV)	65.4	470.0	Moderately oxidising to highly oxidising
	Temperature (°C)	15.3	22.2	—
	pH (-)	6.54	8.06	Near Neutral to alkaline
Unnamed Creek (SW409, SW462)	DO (mg/L)	3.22	7.39	Poor aerobic to good aerobic
	EC (µs/cm)	136.4	296.6	Freshwater
	ORP (mV)	167.4	230.1	Moderately oxidising to oxidising
	Temperature (°C)	7.39	13.2	—
	pH (-)	6.71	7.39	Neutral
Dam (SW323, SW338, SW382)	DO (mg/L)	5.49	7.37	Fair to good aerobic
	EC (µs/cm)	24.2	220.8	Freshwater
	ORP (mV)	67.5	158.0	Moderately oxidising
	Temperature (°C)	23.5	26.3	—
	pH (-)	6.42	8.44#	Acidic to Alkaline
Drain (5 locations)	DO (mg/L)	1.92	6.50	Hypoxic to fair (approaching good) aerobic
	EC (µs/cm)	119.3	328.5	Freshwater
	ORP (mV)	53.5	197.2	Moderately oxidising
	Temperature (°C)	16.3	22.1	—

Water Body	Parameter	Minimum	Maximum	
	pH (-)	5.88	8.13	Acidic to alkaline

Note:

#: SW338 recorded a pH of 9.77. This is considered an erroneous result and has been removed from this table.

7.3.3 Surface Water Field Observations

Flow conditions in the surface water body were recorded as follows:

- Stagnant (24 locations);
- Gentle flow (6 locations);
- Moderate flow (3 locations); and
- High flow (1 location).

The sampling of flowing water is the preference during the OMP as it is considered generally more representative of PFAS concentrations within a water body. It is acknowledged however that many waterbodies such as dams, ponds and oxbows do not exhibit flow and inherently have 'stagnant' flow conditions. The sampling of stagnant conditions from these water bodies is consistent with water flow observations from previous sampling events and consists of 19 of the 24 locations identified above. The 'stagnant' flow which was identified in the other water bodies was a likely result of dry conditions across the base and Management Area.

Table 7.3 Summary of Olfactory and Visual Observations

Olfactory/Visual	Description	Surface sampling location	Surface water body
Olfactory	Brackish	SW401	Oxbow
	Organic	SW326	Drain
		SW382	Dam
	Sewage	SW430	Jack in the Box Creek
Visual	Macro-organisms	SW323	Dam
		SW431	Jack in the Box Creek
		SW346	Ornamental Pond
	Suspended solids	SW323, SW338, SW283	Dam
		SW430, SW431, SW432, SW434	Jack in the Box Creek
		SW390, SW404, SW405	Kiewa River
		SW3436	Ornamental Pond
		SW400, SW401, SW403, SW471	Oxbow
		SW409	Unnamed Creek
	Foaming	SW323	Jack in the Box Creek
		SW403	Dam
		SW427	Oxbow

Other visual observations during surface water sampling included:

- Thirty surface water samples had no or low turbidity. The remaining samples reported moderate turbidity with one surface water sample recording a high turbidity (SW396);
- The colour of surface water samples ranged from colourless (13 samples) to light brown (6 samples), brown (5), yellow (slightly yellow to yellow in 10 samples);

- Foaming was observed in three surface water samples during a 'shake test' (SW323, SW403 and SW427); and
- Foaming was observed at several water bodies during sampling, however, based on the analytical results, is not considered likely to be the result of the presence of AFFF or PFAS. Locations include SW326 and SW427.

8. Results

8.1 Groundwater Elevations and Inferred Flow Direction

Groundwater gauging data has been presented in **Appendix C, Table C1.** Groundwater contours for the shallow Shepparton and Coonambidgal Fluvium and shallow Shepparton Colluvium aquifers, including groundwater elevations, are provided as **Appendix A, Figure 4**. Groundwater contours for the perched, intermediate and deep Shepparton and Coonambidgal Fluvium aquifers have not been calculated, owing to the limited number of wells (i.e. <3) being sampled in each aquifer.

Standing Water Levels are measured in the field as metres below top of casing (mBTOC) and are later converted into a relative level to determine groundwater flow directions.

Groundwater elevations in the shallow Shepparton and Coonambidgal Fluvium ranged between 151.2 and 165.8 metres Australian Height Datum (mAHD). The groundwater flow direction was inferred to be to the east towards the Kiewa River, consistent with previous rounds of groundwater monitoring.

Groundwater elevations in the shallow Shepparton Colluvium ranged between 159.2 and 166.8 mAHD. The groundwater flow direction was inferred to be to the northwest, consistent with previous rounds of groundwater monitoring. It is noted that MW317, which displayers erroneous standing water level measurements owing to its install (also noted in previous investigations), has been excluded from the contour plots in **Appendix A, Figure 4**.

8.2 Analytical Results

8.2.1 Groundwater Analytical Results

Groundwater analytical results for the October 2025 sampling event have been presented in **Table B1, Appendix B**, with PFOS results plotted in **Appendix A, Figure 5**. The groundwater analytical results have been compared against the adopted screening criteria in the following **Table 8.1**:

Table 8.1 Summary of Analytical Results vs Adopted Screening Criteria

Analyte	Screening Criterion type	Criterion Value (µg/L)	Samples Exceeding (n/N)	Exceedance (%)
PFOS	Freshwater (95% species protection)	0.13	32/53	60%
PFOS	Freshwater (99% species protection)	0.00023*	50/53	94%
PFOS	Drinking water	0.008*	50/53	94%
PFOS	Recreational water	2.0	19/53	36%
PFHxS	Drinking water	0.03	40/53	75%
PFHxS	Recreational water	2.0	13/53	25%
PFOA	Drinking water	0.2	13/53	25%
PFBS	Drinking water	1.0	7/53	13%
Sum of PFOS + PFHxS	Recreational water	2.0	20/53	38%

Notes

n/N: number of samples exceeding / total number of samples

*: Criterion is below the LOR used. Non-detects may or may not exceed. Where LOR is higher than the adopted criterion, non-detects have not been considered as exceeding.

The following **Table 8.2** presents a summary of notable deviations between groundwater analytical results reported for the October 2025 sampling event and available historical data.

Table 8.2: Summary of Deviation from Historical Groundwater Data

Sample Location	October 2025 Sum of PFOS+PFHxS	Historical Sum of PFOS+PFHxS Range (min-max)	Comment
MW016	14.2	3.90 – 10.4	The October 2025 sum of PFOS+PFHxS result is the highest result recorded at these locations to date. Other PFAS compounds also showed increases at these locations in the recent sampling event. Within the last 12 months JBS&G have installed, developed and conducted pump testing on several new groundwater wells in proximity to these locations. These works may have mobilised PFAS within the aquifer resulting in higher concentrations within the area.
MW018	1.49	0.66 – 1.16	
MW020	4.7	2.03 – 3.38	
MW034	17.7	7.45 – 16.0	
MW043	21.3	10.4 – 16.6	
MW411	2.34	1.48	
MW315	0.05	<0.01	The October 2025 monitoring round is the first time this location has reported concentrations above the LOR. This monitoring well is usually sampled by HydraSleeve™ (noting only one previous sampling round); however owing to issues with deployment (potential roots within the well screen) sampling had to be conducted by bailer. This may have introduced sediment into the sample resulting in a detectable albeit low PFAS concentration.
MW317	1.21	0.05	Difficulty was experienced in retrieving a water sample from this well in the field owing to low water column and sediment within the well. It is possible that the high turbidity of the water sampled from this well contributed to a higher PFAS concentration at this location.
MW323	0.03	<0.01	The October 2025 monitoring round is the first time this location has reported concentrations above the LOR. Review of the results by the laboratory confirmed the accuracy of the detectable result. Review of field notes and recent activities in this area of the base did not identify changed conditions which would cause the elevated result.

It is noted that 16 locations (MW016, MW018, MW020, MW029, MW034, MW043, MW311, MW313, MW315, MW317, MW323, MW350_D, MW351, MW352, MW411, MW447) reported new maximum concentrations during the October 2025 sampling event. Of these locations, only MW317 has reported an order of magnitude change, with all others being very small increases only. It is also noted that MW315 and MW323 have both reported first time detections of PFOS+PFHxS. Five out of 16 locations with new reported maximums were located on South Bandiana while the remaining 11 locations were located in the Kiewa River catchment, either at East Bandiana or east of the base.

Increases in PFAS concentrations from the previous OMP sampling round in May 2025 or November/December 2024 have been identified at several other groundwater sampling locations including the following:

- On-base: MW009, MW012, MW034, MW312, MW346, MW350_S, MW354 and MW403; and
- Off-base: MW357 and MW361.

The increases identified in the dot points above (i.e. excluding those listed in **Table 8.2**), are only considered minor (i.e. not orders of magnitude changes) and are within historic ranges. A full review and discussion of the above identified increases in the context of the overall dataset and Conceptual Site Model (CSM) will be provided in the Ongoing Monitoring Report (OMR) for the 2025 period.

8.2.2 Surface Water Analytical Results

Surface water analytical results for the October 2025 sampling event have been presented in **Appendix B, Table B2**, with PFOS results plotted in **Appendix A, Figure 6A/B.** The surface water analytical results have been compared against the adopted screening criteria and provided in the following **Table 8.3**:

Table 8.3: Summary of Surface Water Analytical Results vs Screening Criteria

Analyte	Criterion type	Criterion value (µg/L)	Samples exceeding (n/N)	Exceedance (%)	Exceeding sample IDs
PFOS	Freshwater (95% species protection)	0.13	14/34	41%	Refer to Appendix A, Figure 6a and 6b
PFOS	Freshwater (99% species protection)	0.00023	27/34	79%	
PFOS	Drinking water	0.008	27/34	79%	
PFOS	Recreational water	2.0	2/34	6%	SW397, SW487
PFHxS	Drinking water	0.03	17/34	50%	-
PFHxS	Recreational water	2.0	4/34	12%	SW396, SW397, SW471, SW487
PFOA	Drinking water	0.2	2/34	6%	SW397, SW487
PFBS	Drinking water	1.0	0/34	0%	N/A
Sum of PFOS + PFHxS	Recreational water	2.0	4/34	12%	SW396, SW397, SW471, SW487

Notes

*: Criterion is below the LOR used. Non-detects may or may not exceed.

Of the identified exceedances the results of the recent analysis undertaken on the sample from SW396 represents a notable deviation from historic results. The October 2025 Sum of PFOS+PFHxS concentration was 4.4 µg/L, compared with a historical range of 1.10 to 2.95 µg/L. This is the highest result recorded at this location to date.

During sampling, the dam level was close to full and turbidity was high across the water body. The increased turbidity, potentially influenced by livestock movement or other farming activity, may have contributed to the higher PFAS concentration observed in October 2025.

Increases in PFAS concentrations from the previous OMP sampling round in May 2025 have been identified at several other surface water sampling locations including the following:

- **On-base**: SW375 and SW388; and
- **Off-base**: SW400, SW401, SW412, SW430 and SW462.

The increases identified in the points above (i.e. excluding those listed in **Table 8.3**), are only considered minor (i.e. not orders of magnitude changes) and are within historic ranges. A full review and discussion of the above identified increases in the context of the overall dataset and CSM will be provided in the OMR for the 2025 period.

9. Conclusions

The October 2025 sampling event was completed in general accordance with the SAQP (JBS&G 2025) and the OMP (Defence 2025). The observations, information and data collected as part of the sampling event have been documented in this SER and key findings have been summarised in the table below.

A full review and discussion of the results obtained as part of this SER in the context of the overall dataset and CSM will be provided in the OMR for the 2025 period.

Table 9.1: Summary of October 2025 Sampling Event

Aspect	Detail	Recommended Action
SAQP	This OMP round was completed in general accordance with the SAQP (JBS&G 2025) with the exception of the deviations beyond JBS&G's control (discussed in **Section 3**), including: • 18 surface water monitoring locations could not be sampled as they were found dry during mobilisation. • One surface water location SW336 was not sampled as it was inaccessible during the program. • Two monitoring wells (MW318 and MW353) were dry or had insufficient water column to allow for sampling. • One monitoring well, MW315 was sampled using a bailer in a water column >1.0m owing to deployment issues potentially caused by tree roots. • One monitoring well MW056 was not sampled as a sample was mistakenly collected from an adjacent well MW406.	All reasonable effort will be made to complete the next sampling event in general accordance with the SAQP. Prior to the next OMP sampling event, a down-hole camera will be used at MW315 to attempt to identify if an obstruction is present. Prior to the next sampling round, a review and inspection will be undertaken to assess wells where high amounts of sediment or discrepancies in well depth are identified. Where these observations/measurements are confirmed, further investigation/ rectification work will be considered including down-hole camera inspections and well development, to be completed prior to the next OMP sampling round. Overall, the deviations from the OMP SAQP (JBS&G 2025) are not considered to affect the data obtained as part of the program.
Screening criteria	The screening criteria identified in **Section 5** were adopted in consideration of current guidance.	None, acknowledging that draft recreational water guidelines have been released and which will be considered for adoption once finalised and published.
Groundwater gauging	The groundwater flow directions inferred from groundwater gauging data were consistent with previous monitoring rounds.	Groundwater locations will be gauged again during the next scheduled sampling event to continue monitoring of the groundwater flow direction as per OMP.
Groundwater sampling program	A total of 53 primary groundwater samples were collected. Concentrations of PFOS, PFHxS, PFOA, PFBS and sum of PFOS+PFHxS were generally consistent when compared to previous monitoring rounds except for one well (MW317) which increased by an order of magnitude, and two wells (MW315 and MW323) which had first time detections.	Groundwater locations will be sampled again during the next scheduled sampling event to continue monitoring of the groundwater PFAS concentrations as per OMP. Further analysis and discussion of PFAS results will be provided in the OMR for the 2025 sampling period.
Surface water sampling program	A total of 34 primary surface water samples were collected. Concentrations of PFOS, PFHxS, PFOA, PFBS and sum of PFOS+PFHxS were generally consistent with previous monitoring rounds, with the exception of SW396 which had results slightly above the historic	Surface water locations will be sampled again during the next scheduled sampling event to continue monitoring of the surface water PFAS concentrations as per OMP.

Aspect	Detail	Recommended Action
	range. This result was potentially caused by higher turbidity conditions in the dam.	Further analysis and discussion of PFAS results will be provided in the OMR for the 2025 sampling period.
Next scheduled event	The next OMP event is scheduled for May 2026.	Nil

10. References

10.1 Previous Investigation Reports

Bandiana Military Area, PFAS Management Area Plan. Document Number 1777738-153-R-RevA. Department of Defence. November 2020. (Defence 2020);

Bandiana Military Area, PFAS Ongoing Monitoring Plan. Department of Defence. March 2025 (Defence 2025);

PFAS Detailed Site Investigation, Bandiana Military Area. Document Number 1777738-081-R-RevB. Golder Associates Pty Ltd. Dated 14 September 2018 (Golder 2018).

Human Health and Ecological Risk Assessment, Bandiana Military Area. Document Number 1777738-150-R-RevB. Golder Associates Pty Ltd. November 2020 (Golder 2020);

PFAS Mass Flux Study – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document Number 61395/153,765 – Rev 0. JBS&G Australia Pty Ltd. 1 November 2024 (JBS&G 2024); and

Bandiana Military Area – PFAS Ongoing Monitoring Plan (OMP) Sampling and Analysis Quality Plan (SAQP). Document number 61395/163,009 – Rev2. JBS&G Australia Pty Ltd. 05 September 2025. (JBS&G 2025).

10.2 Standards and Guidelines

Water Quality Guidelines. Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ). 2000. (ANZECC and ARMCANZ 2000);

Australian and New Zealand Guidelines for Fresh and Marine Water Quality. 2018. (ANZG 2018);

AS 4482.1-2005, Guide to the Investigation and Sampling of Sites with Potentially Contaminated Soils, Part 1 - Non-volatile and Semi-volatile Compounds (withdrawn as pending revision, referred to for 'state of knowledge'). (AS 2005);

Australian/New Zealand Standard AS/NZS 5667.6:1998 Water Quality – Sampling, Part 6: Guidance on Sampling Rivers and Streams. (AS/NZS 1998);

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Sampling Design Part 2 – Interpretation, Contaminated Land Guidelines. August 2022. (NSW EPA 2022b);

Guidance for the Data Quality Objectives Process (EPA QA/G-4). (USEPA 2006);

Guidance on Environmental Data Verification and Data Validation (EPA QA/G-8). (USEPA 2002); and

Victorian Government 2021, Environment Reference Standard (No. S245), Victoria Government Gazette, 26 May 2021.

Interim Guideline on the Assessment and Management of Perfluoroalkyl and Polyfluoroalkyl Substances, WA DER. (WA DER, 2017).

11. Limitations

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

Appendix A Figures

Figures included are as follows:

- Figure 1: Site Location Plan;
- Figure 2: OMP Groundwater Sample Locations;
- Figure 3A/B: OMP Surface Water Sample Locations;
- Figure 4: Groundwater Contours (October 2025);
- Figure 5: Groundwater PFOS Results Summary (October 2025); and
- Figure 6A/B: Surface Water PFOS Results Summary (October 2025).

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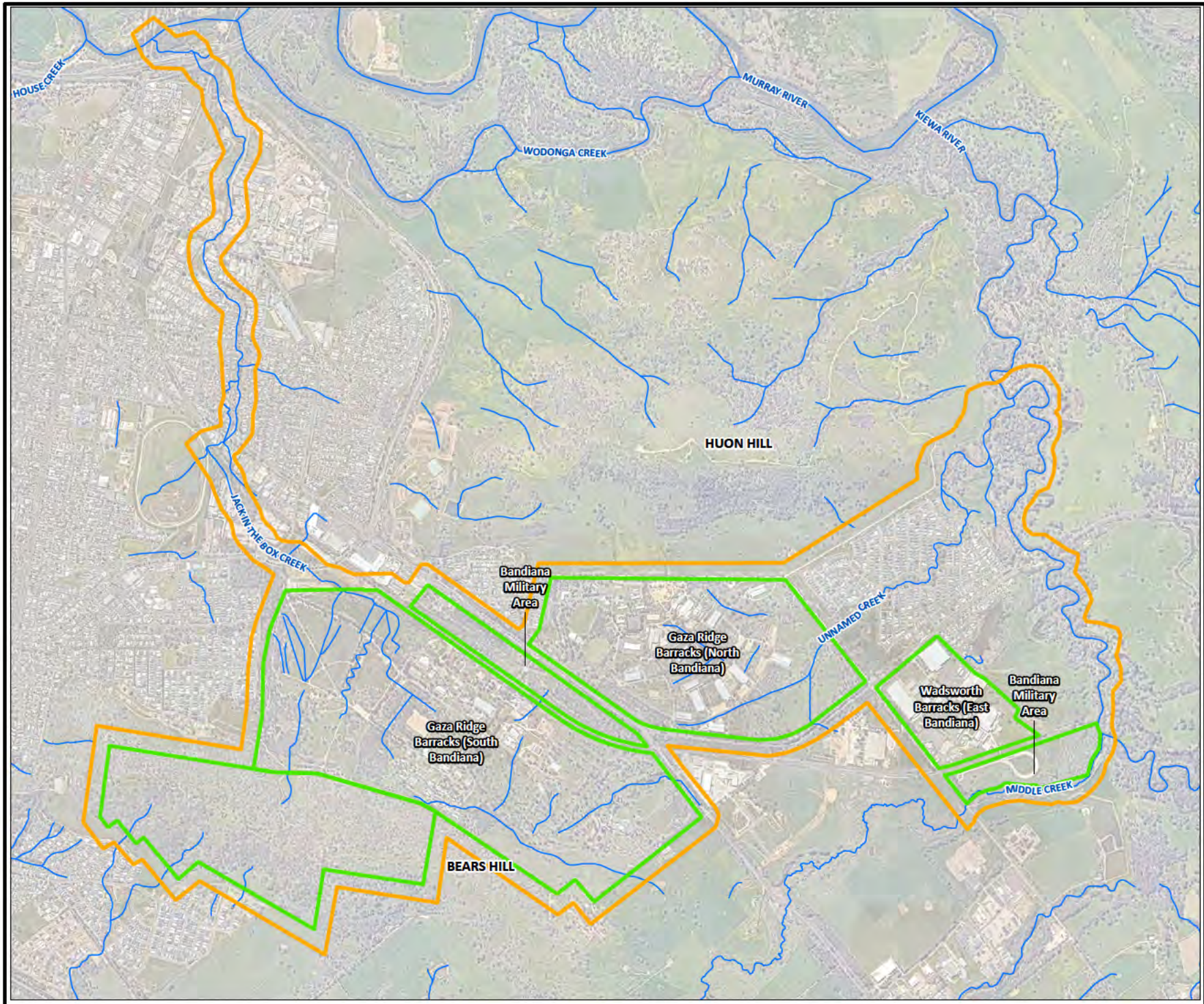


Legend

- Management Area
- Bandiana Military Area
- Watercourse

JBS&G

Job No: 61395

Client: Department of Defence

Version: Rev 0 Final | Date: 04-03-2026

[redacted]

Scale 1:32,000

0 650 1,300
metres

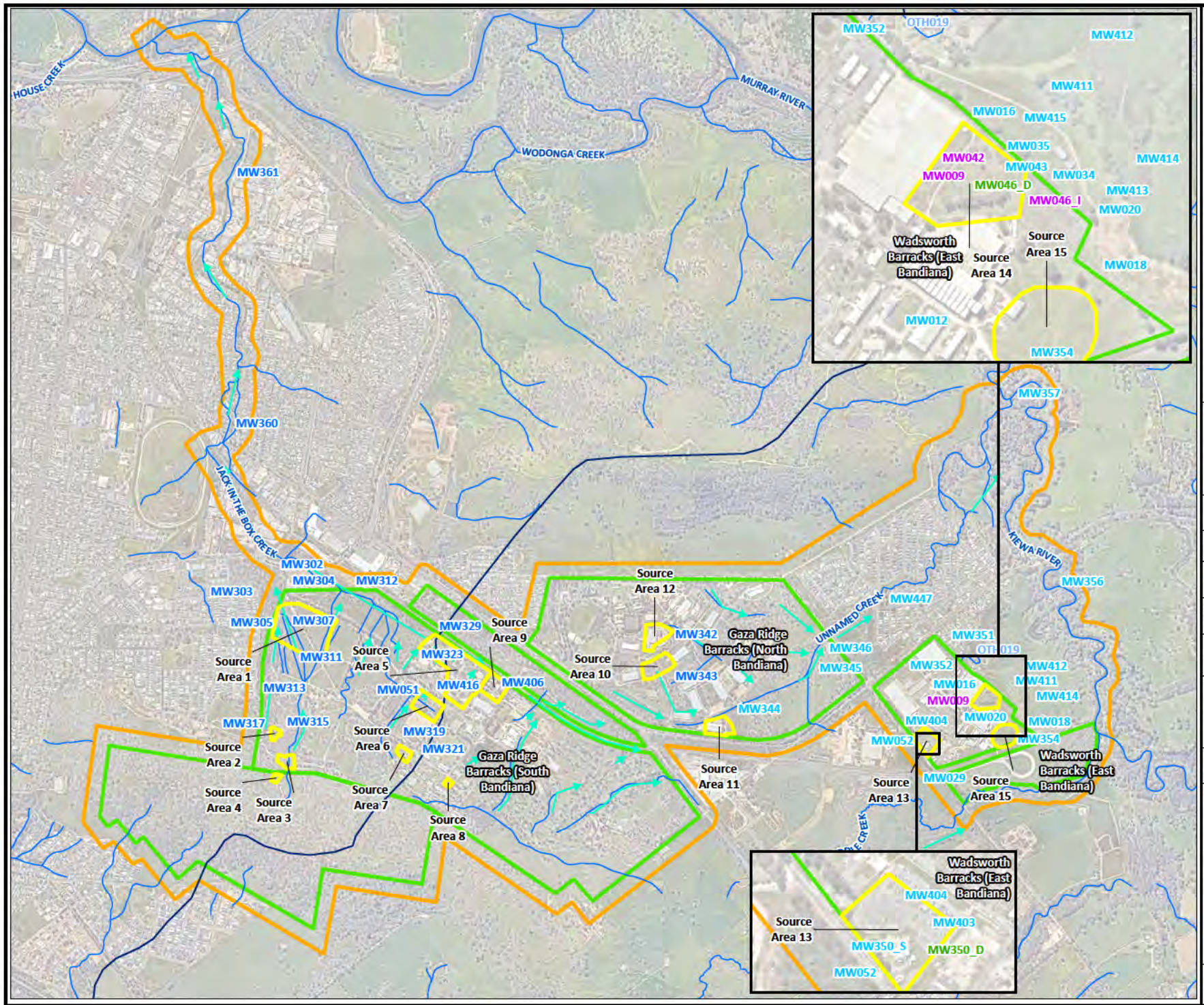
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SITE LOCATION PLAN

FIGURE 1

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse

Groundwater Monitoring Well

- Shepparton and Coonambigdal Fluvium - Shallow Aquifer
- Shepparton and Coonambigdal Fluvium - Intermediate Aquifer
- Shepparton and Coonambigdal Fluvium - Deep Aquifer
- Shepparton Colluvium - Shallow Aquifer
- Point of Use (Tap)

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[redacted]

Scale 1:32,000

0 650 1,300
metres

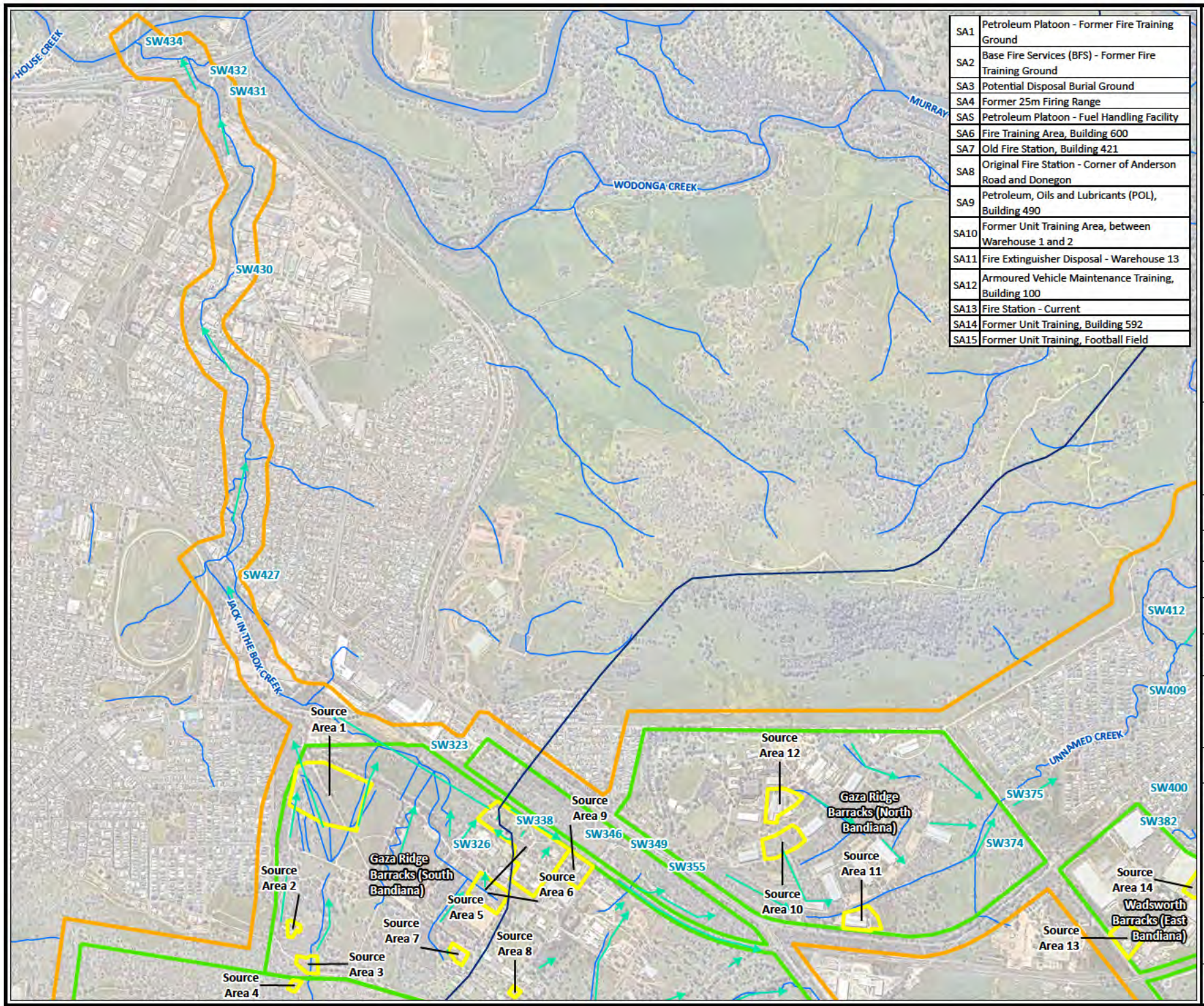
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP GROUNDWATER SAMPLE LOCATIONS

FIGURE 2

[redacted]



SA1	Petroleum Platoon - Former Fire Training Ground
SA2	Base Fire Services (BFS) - Former Fire Training Ground
SA3	Potential Disposal Burial Ground
SA4	Former 25m Firing Range
SAS	Petroleum Platoon - Fuel Handling Facility
SA6	Fire Training Area, Building 600
SA7	Old Fire Station, Building 421
SA8	Original Fire Station - Corner of Anderson Road and Donegon
SA9	Petroleum, Oils and Lubricants (POL), Building 490
SA10	Former Unit Training Area, between Warehouse 1 and 2
SA11	Fire Extinguisher Disposal - Warehouse 13
SA12	Armoured Vehicle Maintenance Training, Building 100
SA13	Fire Station - Current
SA14	Former Unit Training, Building 592
SA15	Former Unit Training, Football Field

Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Surface Water Sample Location

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Version: Rev 0 Final | Date: 04-03-2026

[redacted]

Scale 1:25,000

0 500 1,000
metres

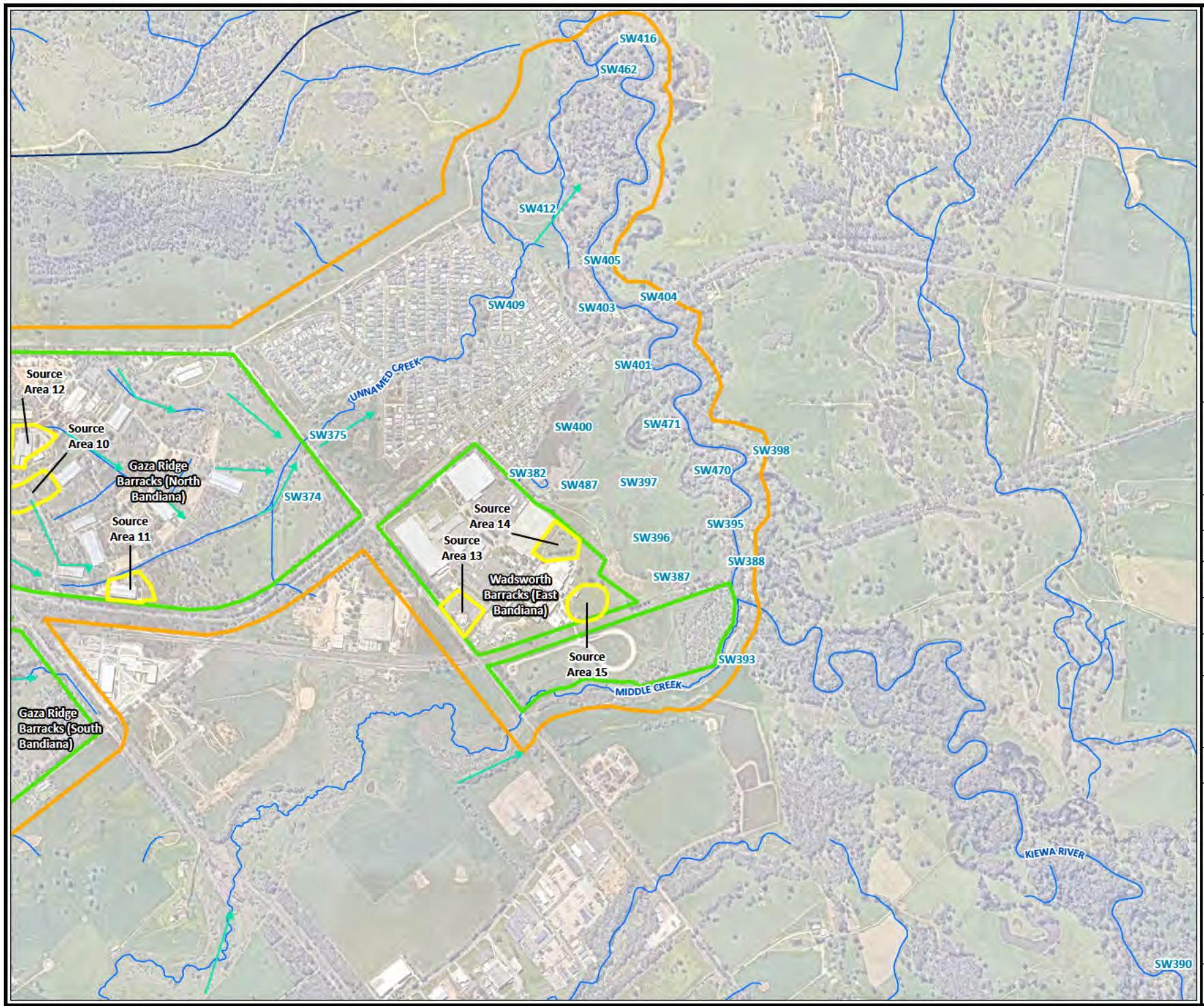
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 3A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Surface Water Sample Location

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[redacted]

Scale 1:20,000

0 400 800
metres

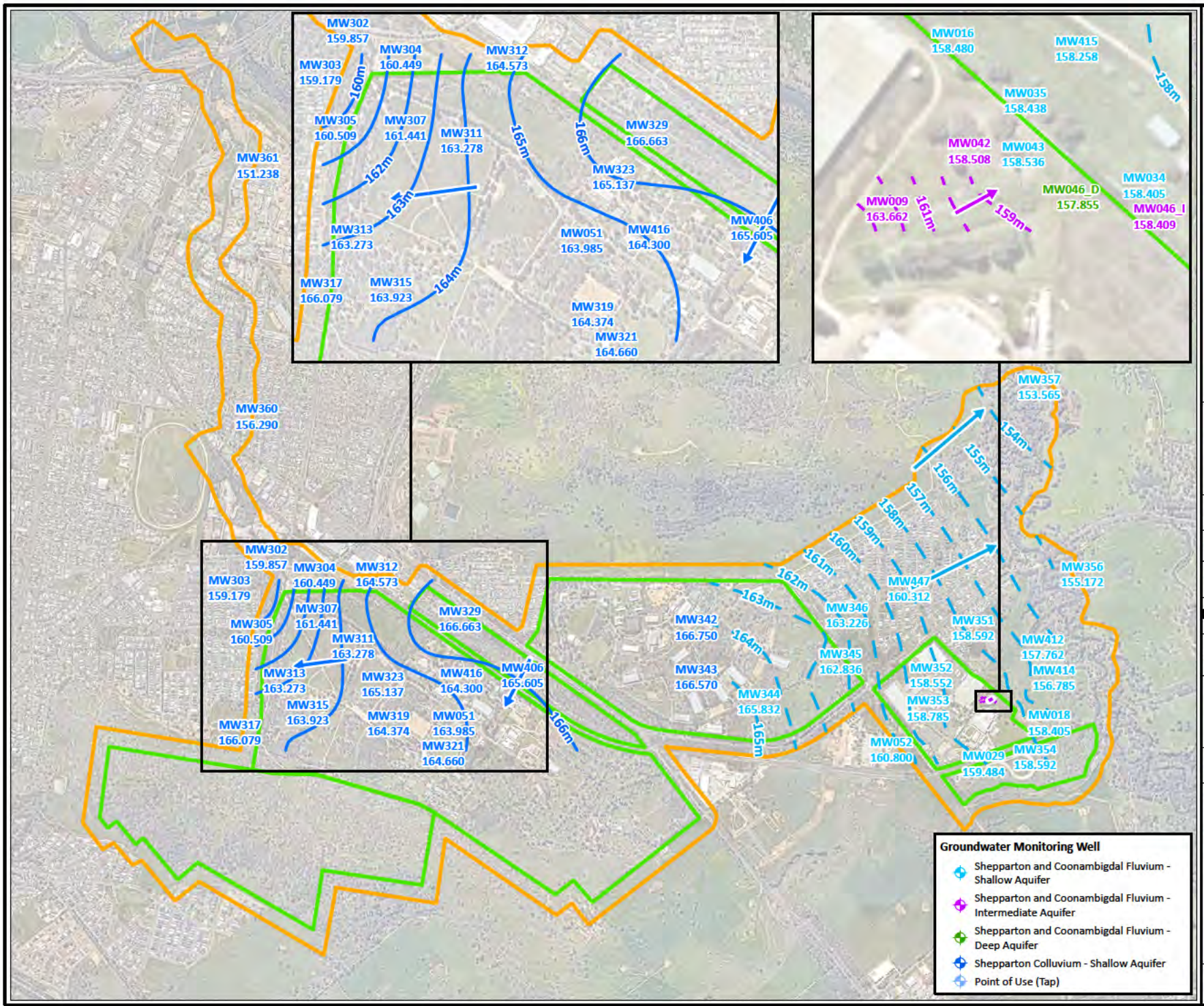
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

OMP SURFACE WATER SAMPLE LOCATIONS

FIGURE 3B

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton and Coonambigdal Fluvium - Shallow Aquifer Contour
- Inferred Shepparton Colluvium - Shallow Aquifer Flow Direction
- Inferred Shepparton Colluvium - Shallow Aquifer On Base Contour
- Inferred Shepparton and Coonambidgal Fluvium - Intermediate Aquifer Flow Direction
- Inferred Shepparton and Coonambidgal Fluvium - Intermediate Aquifer Contour
- 152.734 151.257 163.662 Standing Water Level (mAHD)

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Scale 1:32,000

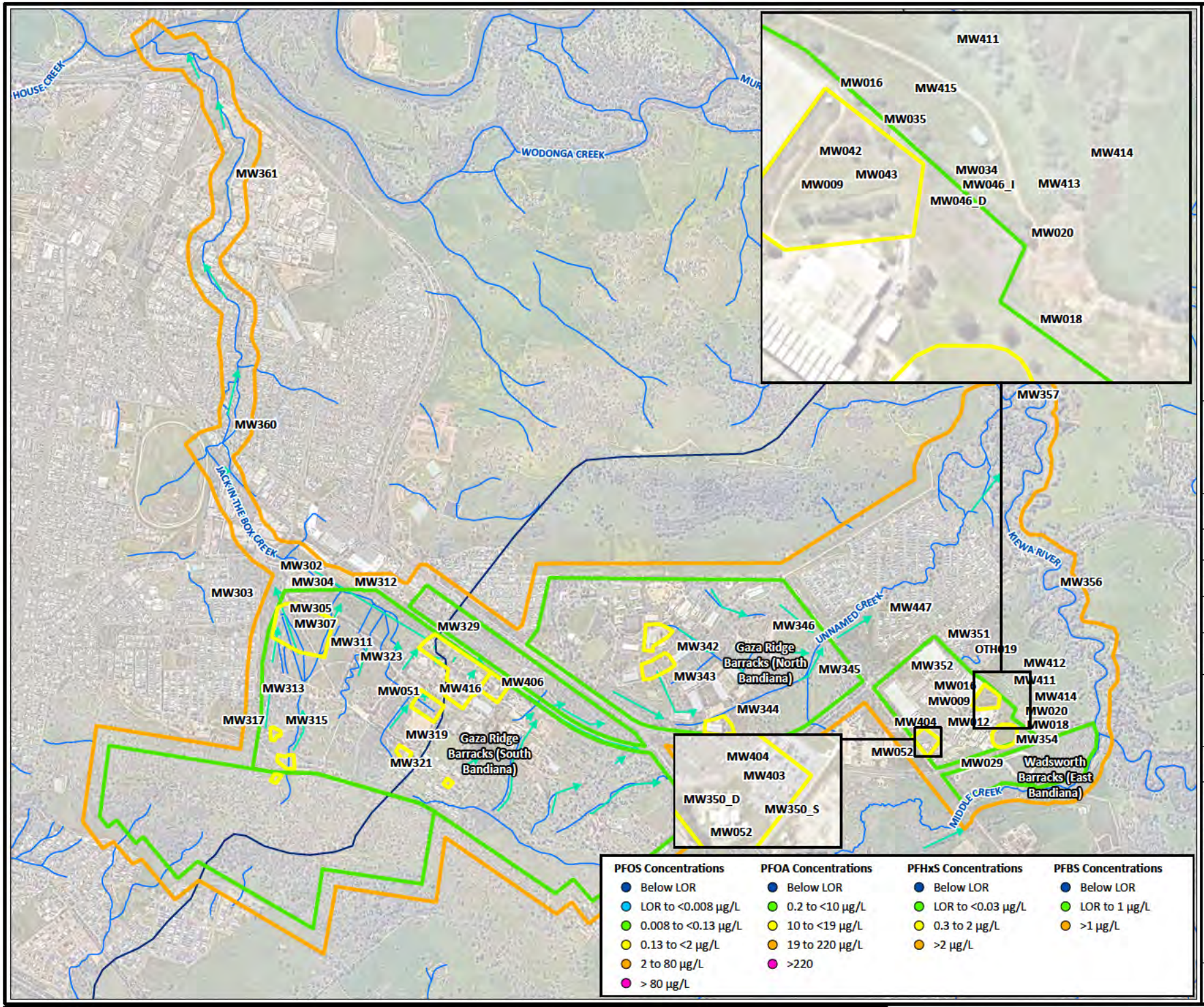
0 650 1,300
metres

Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER CONTOURS (OCTOBER, 2025)

FIGURE 4



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom-right: PFHxS
- Bottom-left: PFBS

PFOS Concentrations	PFOA Concentrations	PFHxS Concentrations	PFBS Concentrations
Below LOR	Below LOR	Below LOR	Below LOR
LOR to <0.008 µg/L	0.2 to <10 µg/L	LOR to <0.03 µg/L	LOR to 1 µg/L
0.008 to <0.13 µg/L	10 to <19 µg/L	0.3 to 2 µg/L	>1 µg/L
0.13 to <2 µg/L	19 to 220 µg/L	>2 µg/L	
2 to 80 µg/L	>220		
> 80 µg/L			

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[redacted]

Scale 1:32,000

0 650 1,300
metres

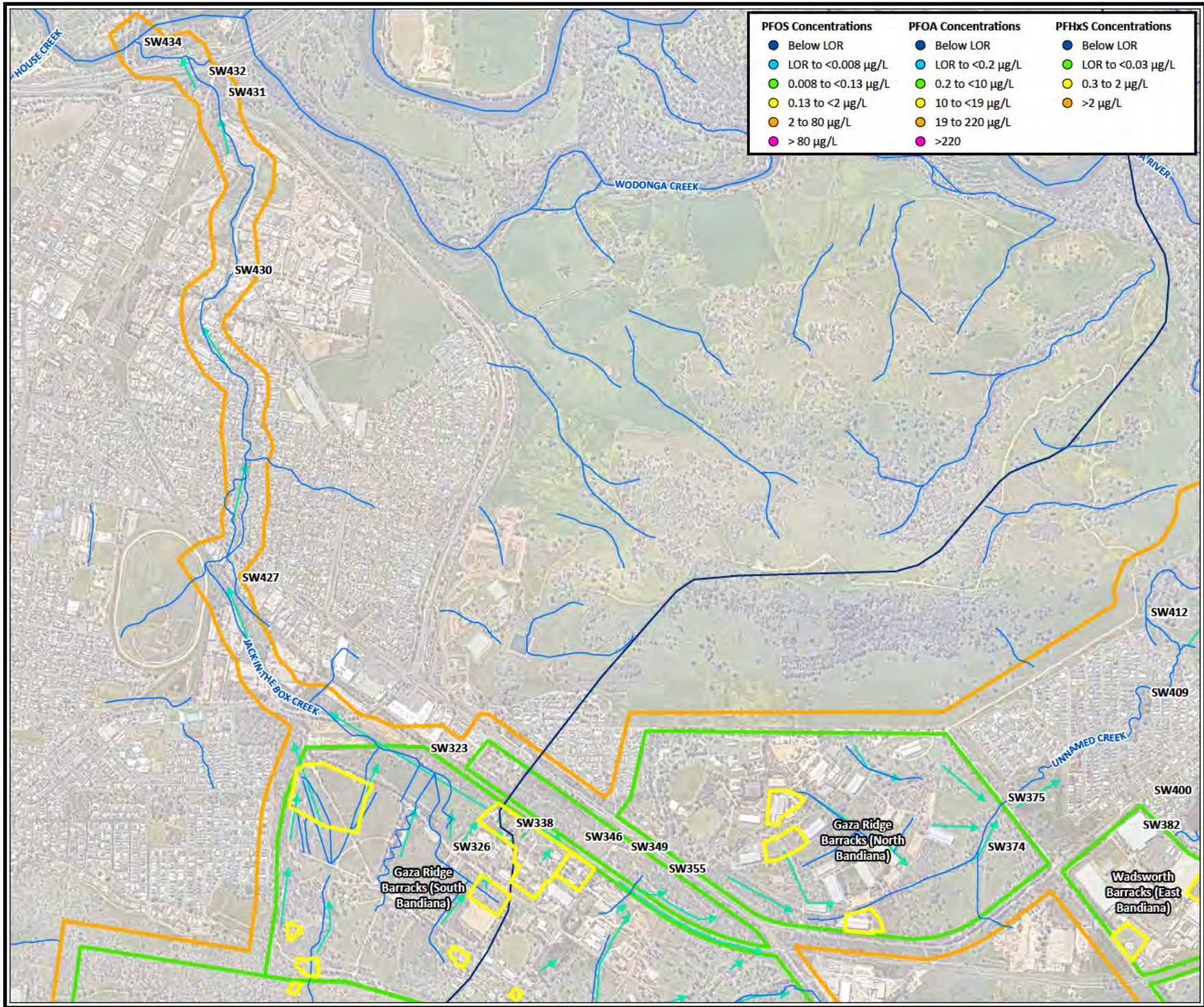
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

GROUNDWATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 5

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom: PFHxS

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Client: Department of Defence

Version: Rev 0 Final | Date: 04-03-2026

[redacted]

Scale 1:25,000

0 500 1,000
metres

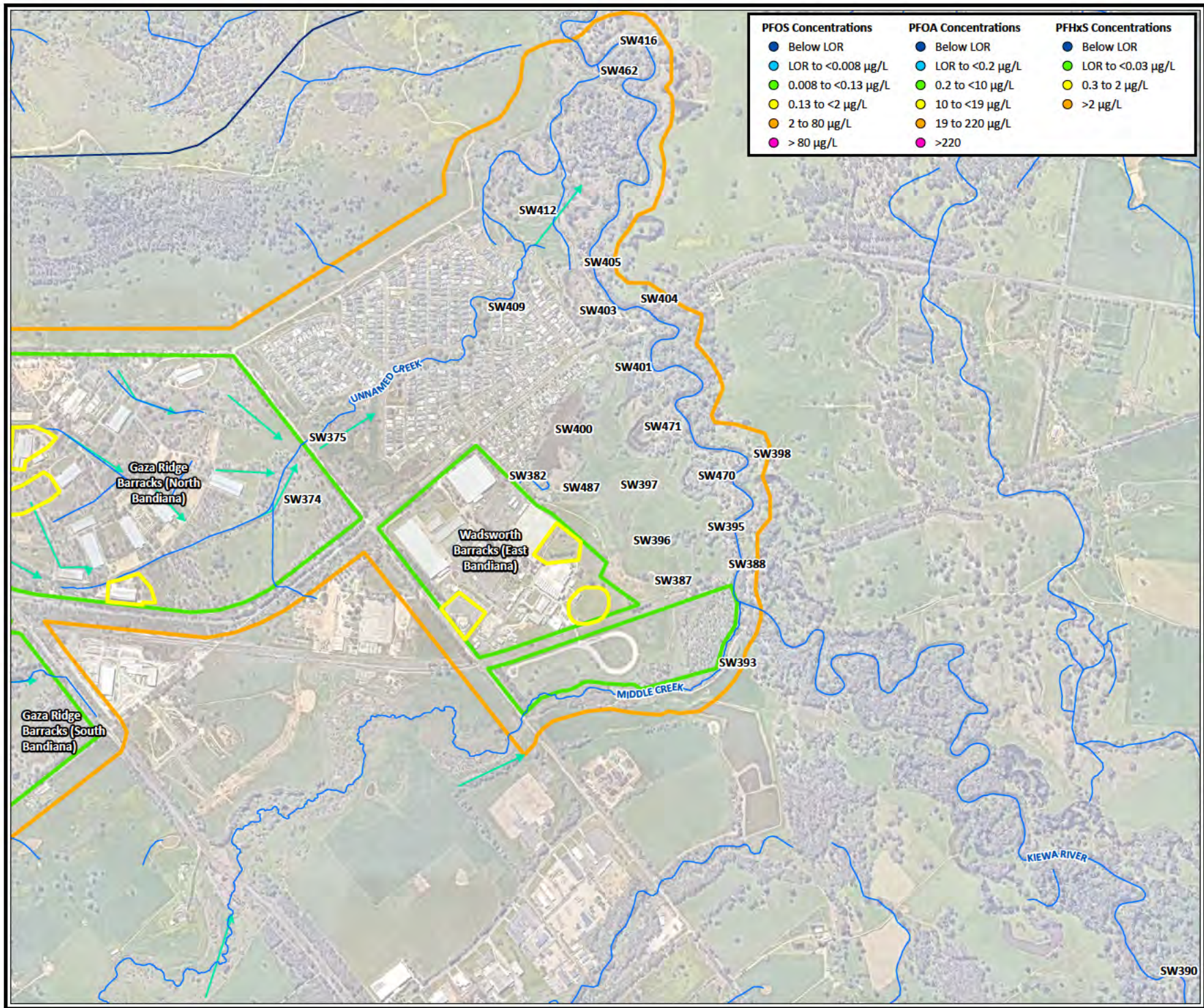
Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 6A

[redacted]



Legend

- Management Area
- Bandiana Military Area
- Source Areas
- Drainage Flow Direction
- Stormwater Divide
- Watercourse
- Top-left: PFOS
- Top-right: PFOA
- Bottom: PFHxS

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Client: Department of Defence

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[redacted]

Scale 1:20,000

0 450 900
metres

Coord. Sys. GDA2020 MGA Zone 55

Bandiana Military Area

SURFACE WATER PFAS RESULTS SUMMARY (OCTOBER, 2025)

FIGURE 6B

[redacted]

Appendix B Analytical Results Tables

Tables provided are as follows:

- Table B1: October 2025 OMP – Sampling Event Analytical Results – Groundwater; and
- Table B2: October 2025 OMP – Sampling Event Analytical Results – Surface Water.

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Bandiana Military Area
October 2025 OMP
Table B1 - Groundwater Analytical Results

				PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids								
				Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
				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				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
PFAS in Drinking Water (ADWG 2025)				1		0.03		0.008							0.2				
PFAS NEMP 2025 Freshwater 95%								0.13							220				
PFAS NEMP 2025 Freshwater 99%								0.00023							19				
PFAS NEMP 2025 Recreational water quality guideline						2		2							10				
Field ID	**Location Code**	**Date**	**Lab Report Number**																
0445E_MW009_251015	MW009	15 Oct 2025	1282063	0.70	0.80	5.6	0.38	5.6	<0.01	<0.01	0.20	0.29	1.3	0.19	0.44	<0.01	<0.01	<0.01	<0.01
0445E_MW012_251016	MW012	16 Oct 2025	1282063	0.02	0.02	0.22	<0.01	0.08	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW016_251015	MW016	15 Oct 2025	1282063	0.76	0.82	5.3	0.37	8.9	<0.01	<0.01	0.16	0.27	1.3	0.24	0.47	<0.01	<0.01	<0.01	<0.01
0445E_MW018_251016	MW018	16 Oct 2025	1282063	0.08	0.09	0.67	0.03	0.82	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW020_251014	MW020	14 Oct 2025	1282063	0.07	0.09	1.6	0.10	3.1	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.07	<0.01	<0.01	<0.01	<0.01
0445E_MW029_251016	MW029	16 Oct 2025	1282063	0.17	0.15	0.87	0.01	0.46	<0.01	<0.01	0.07	0.20	0.38	0.09	0.05	<0.01	<0.01	<0.01	<0.01
0445E_MW034_251016	MW034	16 Oct 2025	1282063	0.10	0.11	1.2	0.07	2.2	<0.01	<0.01	<0.05	0.05	0.19	0.03	0.06	<0.01	<0.01	<0.01	<0.01
0445E_MW035_251015	MW035	15 Oct 2025	1282063	1.1	1.2	9.6	0.66	8.1	<0.01	<0.01	0.29	0.59	2.2	0.32	0.72	<0.01	<0.01	<0.01	<0.01
0445E_MW042_251015	MW042	15 Oct 2025	1282063	0.59	0.64	5.3	0.41	5.2	<0.01	<0.01	0.17	0.33	1.2	0.18	0.41	<0.01	<0.01	<0.01	<0.01
0445E_MW043_251015	MW043	15 Oct 2025	1282063	0.99	1.3	9.3	0.69	12	<0.01	<0.01	0.29	0.52	2.0	0.30	0.69	<0.01	<0.01	<0.01	<0.01
0445E_MW046_D_251016	MW046	16 Oct 2025	1282063	0.09	0.09	1.3	0.07	2.4	<0.01	<0.01	<0.05	0.05	0.18	0.02	0.06	<0.01	<0.01	<0.01	<0.01
0445E_MW046_I_251016	MW046	16 Oct 2025	1282063	0.08	0.09	1.3	0.07	2.6	<0.01	<0.01	<0.05	0.04	0.17	0.02	0.06	<0.01	<0.01	<0.01	<0.01
0445S_MW051_251016	MW051	16 Oct 2025	1282063	0.11	0.06	0.47	0.04	2.4	0.01	<0.01	0.11	0.14	0.26	0.04	0.07	0.01	<0.01	<0.01	<0.01
0445E_MW052_251016	MW052	16 Oct 2025	1282063	0.39	0.43	2.6	0.11	3.4	0.01	<0.01	0.10	0.13	0.63	0.17	0.22	<0.01	<0.01	<0.01	<0.01
0445S_MW056_251016	MW056	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW302_251016	MW302	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW303_251016	MW303	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW304_251017	MW304	17 Oct 2025	1282063	<0.01	<0.01	0.07	<0.01	0.88	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW305_251017	MW305	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW307_251017	MW307	17 Oct 2025	1282063	30	26	140	10	30	<0.01	<0.01	5.5	17	42	8.0	10	0.16	<0.01	<0.01	<0.01
0445S_MW311_251017	MW311	17 Oct 2025	1282063	<0.01	<0.01	0.09	<0.01	0.06	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW312_251017	MW312	17 Oct 2025	1282063	0.01	0.01	0.09	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW313_251016	MW313	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW315_251017	MW315	17 Oct 2025	1282063	<0.01	<0.01	0.02	<0.01	0.03	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW317_251017	MW317	17 Oct 2025	1282063	<0.01	<0.01	0.11	0.03	1.1	<0.01	<0.01	<0.05	1.6	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW319_251016	MW319	16 Oct 2025	1282063	<0.01	<0.01	0.02	<0.01	0.11	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW321_251016	MW321	16 Oct 2025	1282063	1.6	3.5	140	33	540	<0.5	<0.01	0.28	0.94	6.7	1.1	8.9	1.00	<0.01	<0.01	<0.01
0445S_MW323_251017	MW323	17 Oct 2025	1282063	<0.01	<0.01	0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445S_MW329_251017	MW329	17 Oct 2025	1282063	0.14	0.07	0.30	<0.01	0.05	<0.01	<0.01	<0.05	0.17	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW342_251016	MW342	16 Oct 2025	1282063	0.87	0.86	6.1	0.16	2.6	<0.01	0.05	0.16	0.28	1.2	0.08	0.21	<0.01	<0.01	<0.01	<0.01
0445N_MW343_251015	MW343	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.03	<0.01	0.01	<0.05	2.0	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW344_251016	MW344	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.01	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW345_251016	MW345	16 Oct 2025	1282063	0.02	0.02	0.15	<0.01	0.04	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW346_251016	MW346	16 Oct 2025	1282063	<0.01	<0.01	0.02	<0.01	0.02	<0.01	0.02	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_MW350_D_251016	MW350	16 Oct 2025	1282063	0.04	0.04	0.33	0.02	0.57	<0.01	<0.01	<0.05	0.04	0.08	0.02	0.02	<0.01	<0.01	<0.01	<0.01
0445E_MW350_S_251016	MW350	16 Oct 2025	1282063	2.5	4.9	44	5.0	39	0.02	<0.01	1.1	2.5	6.5	1.1	2.9	0.04	<0.01	<0.01	<0.01
0445E_MW351_251016	MW351	16 Oct 2025	1282063	0.005	0.004	0.029	0.001	0.022	<0.001	<0.001	0.006	0.003	0.006	0.002	0.004	<0.001	<0.001	<0.001	<0.001
0445E_MW352_251016	MW352	16 Oct 2025	1282063	0.002	0.002	0.009	<0.001	0.021	<0.001	<0.001	<0.005	0.001	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001
0445E_MW354_251016	MW354	16 Oct 2025	1282063	0.02	0.02	0.14	0.01	0.21	<0.01	<0.01	<0.05	<0.01	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_MW356_251016	MW356	16 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0445_MW357_251016	MW357	16 Oct 2025	1282063	<0.01	<0.01	0.04	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW360_251016	MW360	16 Oct 2025	1282063	<0.01	<0.01	0.12	<0.01	0.14	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW361_251016	MW361	16 Oct 2025	1282063	0.01	<0.01	0.11	0.01	0.27	<0.01	<0.01	<0.05	0.02	0.02	0.01	0.03	<0.01	<0.01	<0.01	<0.01

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Table B1 - Groundwater Analytical Results

				PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids								
				Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
				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				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001
PFAS in Drinking Water (ADWG 2025)				1		0.03		0.008							0.2				
PFAS NEMP 2025 Freshwater 95%								0.13							220				
PFAS NEMP 2025 Freshwater 99%								0.00023							19				
PFAS NEMP 2025 Recreational water quality guideline						2		2							10				
Field ID	**Location Code**	**Date**	**Lab Report Number**																
0445E_MW403_251016	**MW403**	**16 Oct 2025**	**1282063**	**7.0**	**7.8**	**42**	**2.8**	**33**	**0.03**	<0.01	**1.9**	**3.6**	**12**	**1.5**	**2.0**	**0.04**	<0.01	<0.01	<0.01
0445E_MW404_251016	**MW404**	**16 Oct 2025**	**1282063**	**8.1**	**9.0**	**55**	**3.4**	**54**	**0.12**	<0.01	**1.9**	**3.7**	**11**	**3.8**	**4.5**	**0.04**	<0.01	<0.01	<0.01
0445_MW411_251015	**MW411**	**15 Oct 2025**	**1282063**	**0.12**	**0.14**	**0.84**	**0.05**	**1.5**	<0.01	<0.01	<0.05	**0.04**	**0.17**	**0.03**	**0.06**	<0.01	<0.01	<0.01	<0.01
0445_MW412_251015	**MW412**	**15 Oct 2025**	**1282063**	**0.13**	**0.14**	**1.2**	**0.08**	**3.3**	<0.01	<0.01	<0.05	**0.04**	**0.19**	**0.04**	**0.08**	<0.01	<0.01	<0.01	<0.01
0445_MW413_251015	**MW413**	**15 Oct 2025**	**1282063**	**0.04**	**0.05**	**0.51**	**0.02**	**0.51**	<0.01	<0.01	<0.05	**0.01**	**0.07**	<0.01	**0.02**	<0.01	<0.01	<0.01	<0.01
0445_MW414_251015	**MW414**	**15 Oct 2025**	**1282063**	**0.07**	**0.09**	**0.87**	**0.04**	**1.1**	<0.01	<0.01	<0.05	**0.03**	**0.12**	**0.01**	**0.03**	<0.01	<0.01	<0.01	<0.01
0445_MW415_251015	**MW415**	**15 Oct 2025**	**1282063**	**1.1**	**1.3**	**6.4**	**0.39**	**4.9**	<0.01	<0.01	**0.25**	**0.25**	**1.6**	**0.29**	**0.60**	<0.01	<0.01	<0.01	<0.01
0445S_MW416_251016	**MW416**	**16 Oct 2025**	**1282063**	<0.01	<0.01	**0.13**	**0.02**	**0.74**	<0.01	<0.01	<0.05	<0.01	**0.03**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_MW447_251017	**MW447**	**17 Oct 2025**	**1282063**	<0.01	**0.01**	**0.09**	<0.01	**0.07**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_OTH019_251013	**OTH019**	**13 Oct 2025**	**1282063**	**0.018**	**0.032**	**0.30**	**0.010**	**0.15**	<0.001	<0.001	**0.008**	**0.003**	**0.016**	**0.002**	**0.007**	<0.001	<0.001	<0.001	<0.001

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

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Table B1 - Groundwater Analytical Results

						PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
				Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
				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				0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.05	0.005
PFAS in Drinking Water (ADWG 2025)																				
PFAS NEMP 2025 Freshwater 95%																				
PFAS NEMP 2025 Freshwater 99%																				
PFAS NEMP 2025 Recreational water quality guideline																	2			
Field ID	**Location Code**	**Date**	**Lab Report Number**																	
0445E_MW009_251015	MW009	15 Oct 2025	1282063	<0.01	<0.01	<0.01	0.09	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	11.2	14.41	-	16
0445E_MW012_251016	MW012	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.3	0.32	-	0.4
0445E_MW016_251015	MW016	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	14.2	17.4	-	19
0445E_MW018_251016	MW018	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.49	1.58	-	1.7
0445E_MW020_251014	MW020	14 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	4.7	5.07	-	5.3
0445E_MW029_251016	MW029	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.33	2.29	-	2.5
0445E_MW034_251016	MW034	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.4	3.83	-	4.1
0445E_MW035_251015	MW035	15 Oct 2025	1282063	<0.01	<0.01	<0.01	0.23	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	17.7	23.15	-	26
0445E_MW042_251015	MW042	15 Oct 2025	1282063	<0.01	<0.01	<0.01	0.15	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	10.5	13.53	-	15
0445E_MW043_251015	MW043	15 Oct 2025	1282063	<0.01	<0.01	<0.01	0.35	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	21.3	26.44	-	29
0445E_MW046_D_251016	MW046	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.7	4.1	-	4.3
0445E_MW046_I_251016	MW046	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	3.9	4.27	-	4.5
0445S_MW051_251016	MW051	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.07	2.87	3.6	-	3.9
0445E_MW052_251016	MW052	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	6	7.64	-	8.3
0445S_MW056_251016	MW056	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445_MW302_251016	MW302	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445_MW303_251016	MW303	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	-	<0.1
0445S_MW304_251017	MW304	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.95	0.95	-	1.0
0445S_MW305_251017	MW305	17 Oct 2025	1282063	<0.01	<0.01	<0.05	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
0445S_MW307_251017	MW307	17 Oct 2025	1282063	<0.01	<0.01	0.23	14	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.2	<0.05	<0.05	170	296.5	-	350
0445S_MW311_251017	MW311	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.15	0.18	-	0.2
0445S_MW312_251017	MW312	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.12	0.15	-	0.2
0445_MW313_251016	MW313	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445S_MW315_251017	MW315	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.05	0.08	-	<0.1
0445S_MW317_251017	MW317	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	1.21	2.81	-	2.9
0445E_MW319_251016	MW319	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.13	0.13	-	0.1
0445S_MW321_251016	MW321	16 Oct 2025	1282063	<0.01	<0.01	<0.01	0.94	0.62	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	680	701.08	-	740
0445S_MW323_251017	MW323	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	<0.05	-	<0.1
0445S_MW329_251017	MW329	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.66	-	0.8
0445N_MW342_251016	MW342	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	8.7	11.5	-	13
0445N_MW343_251015	MW343	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.03	2.03	-	2.0
0445N_MW344_251016	MW344	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.01	<0.05	-	<0.1
0445N_MW345_251016	MW345	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.19	0.21	-	0.2
0445N_MW346_251016	MW346	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.04	<0.05	-	<0.1
0445E_MW350_D_251016	MW350	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.9	1.1	-	1.2
0445E_MW350_S_251016	MW350	16 Oct 2025	1282063	<0.01	<0.01	<0.01	2.3	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	83	101.9	-	110
0445E_MW351_251016	MW351	16 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.005	<0.001	0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.051	0.077	-	0.084
0445E_MW352_251016	MW352	16 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.03	0.037	-	0.039
0445E_MW354_251016	MW354	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.35	0.39	-	0.4
0445N_MW356_251016	MW356	16 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	-	<0.005
0445_MW357_251016	MW357	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.06	0.06	-	<0.1
0445_MW360_251016	MW360	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.26	0.26	-	0.3
0445_MW361_251016	MW361	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	0.38	0.47	-	0.5

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						PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS			
				Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Perfuolohexadecanoic acid (PFHxDA)	Sum of PFAS
				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				0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001	0.005	0.05	0.005
PFAS in Drinking Water (ADWG 2025)																				
PFAS NEMP 2025 Freshwater 95%																				
PFAS NEMP 2025 Freshwater 99%																				
PFAS NEMP 2025 Recreational water quality guideline																	2			
Field ID	**Location Code**	**Date**	**Lab Report Number**																	
0445E_MW403_251016	**MW403**	**16 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	**0.56**	**0.06**	<0.01	<0.05	<0.05	<0.05	<0.05	**0.15**	<0.05	<0.05	**75**	**103.62**	-	**120**
0445E_MW404_251016	**MW404**	**16 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	**0.07**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**109**	**142.07**	-	**160**
0445_MW411_251015	**MW411**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**2.34**	**2.76**	-	**3.0**
0445_MW412_251015	**MW412**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**4.5**	**4.98**	-	**5.2**
0445_MW413_251015	**MW413**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.02**	**1.16**	-	**1.2**
0445_MW414_251015	**MW414**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.97**	**2.23**	-	**2.4**
0445_MW415_251015	**MW415**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	**0.05**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**11.3**	**15.44**	-	**17**
0445S_MW416_251016	**MW416**	**16 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	**0.20**	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.87**	**1.1**	-	**1.1**
0445_MW447_251017	**MW447**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.16**	**0.16**	-	**0.2**
0445_OTH019_251013	**OTH019**	**13 Oct 2025**	**1282063**	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.45**	**0.504**	-	**0.55**

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

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Table B2 - Surface Water Analytical Results

				PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids							
				Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	Perfluorobutanoic acid (PFBA)	Perfluoropentanoic acid (PFPeA)	Perfluorohexanoic acid (PFHxA)	Perfluoroheptanoic acid (PFHpA)	Perfluorooctanoic acid (PFOA)	Perfluorononanoic acid (PFNA)	Perfluorodecanoic acid (PFDA)	Perfluoroundecanoic acid (PFUnDA)
				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				0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.001	0.001	0.001	0.001	0.001
PFAS in Drinking Water (ADWG 2025)				1		0.03		0.008							0.2			
PFAS NEMP 2025 Freshwater 95%								0.13							220			
PFAS NEMP 2025 Freshwater 99%								0.00023							19			
PFAS NEMP 2025 Recreational water quality guideline						2		2							10			
Field ID	**Location Code**	**Date**	**Lab Report Number**															
0445S_SW323_251017	SW323	17 Oct 2025	1282063	0.03	0.02	0.28	0.02	1.4	<0.01	<0.01	<0.05	0.07	0.08	0.02	0.04	0.01	<0.01	<0.01
0445S_SW326_251017	SW326	17 Oct 2025	1282063	0.01	0.02	0.18	<0.01	0.75	<0.01	<0.01	<0.05	0.07	0.05	0.02	0.03	<0.01	<0.01	<0.01
0445S_SW338_251016	SW338	16 Oct 2025	1282063	0.04	0.04	0.33	0.02	1.1	<0.01	<0.01	<0.05	0.04	0.15	0.02	0.05	<0.01	<0.01	<0.01
0445S_SW346_251017	SW346	17 Oct 2025	1282063	0.06	0.04	0.36	0.02	1.3	<0.01	<0.01	0.07	0.10	0.13	0.05	0.08	0.03	0.01	<0.01
0445S_SW349_251017	SW349	17 Oct 2025	1282063	0.06	0.04	0.32	0.02	1.2	<0.01	<0.01	0.06	0.10	0.12	0.04	0.07	0.02	<0.01	<0.01
0445S_SW355_251017	SW355	17 Oct 2025	1282063	<0.01	<0.01	0.04	<0.01	0.13	<0.01	<0.01	<0.05	0.03	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_SW374_251015	SW374	15 Oct 2025	1282063	<0.01	<0.01	0.03	<0.01	0.09	<0.01	<0.01	<0.05	0.04	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445N_SW375_251015	SW375	15 Oct 2025	1282063	<0.01	<0.01	0.03	<0.01	0.08	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_SW382_251016	SW382	16 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.02	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445E_SW387_251015	SW387	15 Oct 2025	1282063	0.03	0.03	0.28	0.02	0.24	<0.01	<0.01	<0.05	<0.01	0.04	<0.01	0.01	<0.01	<0.01	<0.01
0445E_SW388_251015	SW388	15 Oct 2025	1282063	<0.01	<0.01	0.05	<0.01	0.07	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW390_131013	SW390	17 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0445_SW393_251017	SW393	17 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW395_251015	SW395	15 Oct 2025	1282063	<0.01	<0.01	0.03	<0.01	0.05	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW396_251015	SW396	15 Oct 2025	1282063	0.46	0.44	3.2	0.08	1.2	<0.01	<0.01	0.16	0.12	0.44	0.06	0.14	<0.01	<0.01	<0.01
0445_SW397_251015	SW397	15 Oct 2025	1282063	0.62	0.65	4.3	0.29	5.5	<0.01	<0.01	0.15	0.23	0.98	0.16	0.38	<0.01	<0.01	<0.01
0445_SW398_251015	SW398	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW400_251015	SW400	15 Oct 2025	1282063	0.03	0.03	0.21	0.01	0.27	<0.01	<0.01	<0.05	0.09	0.02	<0.01	0.01	<0.01	<0.01	<0.01
0445_SW401_251015	SW401	15 Oct 2025	1282063	0.02	0.02	0.16	<0.01	0.21	<0.01	<0.01	<0.05	0.07	0.02	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW403_251013	SW403	13 Oct 2025	1282063	0.02	0.02	0.13	<0.01	0.19	<0.01	<0.01	<0.05	0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW404_251013	SW404	13 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW405_251013	SW405	13 Oct 2025	1282063	<0.01	<0.01	0.06	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW409_251013	SW409	13 Oct 2025	1282063	<0.01	<0.01	0.01	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW412_251013	SW412	13 Oct 2025	1282063	<0.01	<0.01	0.03	<0.01	0.04	<0.01	<0.01	<0.05	0.04	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW416_251013	SW416	13 Oct 2025	1282063	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
0445_SW427_251015	SW427	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW430_251015	SW430	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.02	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW431_251015	SW431	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW432_251015	SW432	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	0.06	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW434_251015	SW434	15 Oct 2025	1282063	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW462_251013	SW462	13 Oct 2025	1282063	<0.01	<0.01	0.02	<0.01	0.05	<0.01	<0.01	<0.05	0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW470_251015	SW470	15 Oct 2025	1282063	0.02	0.02	0.12	<0.01	0.16	<0.01	<0.01	<0.05	0.03	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_SW471_251015	SW471	15 Oct 2025	1282063	0.68	0.55	2.2	0.07	0.81	<0.01	<0.01	<0.05	0.09	0.35	0.04	0.07	<0.01	<0.01	<0.01
0445_SW487_251015	SW487	15 Oct 2025	1282063	0.52	0.54	3.8	0.25	4.6	<0.01	<0.01	0.12	0.20	0.86	0.15	0.29	<0.01	<0.01	<0.01

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

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Table B2 - Surface Water Analytical Results

							PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							
				Perfluorododecanoic acid (PFDoDA)	Perfluorotridecanoic acid (PFTrDA)	Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS
				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				0.001	0.001	0.001	0.001	0.005	0.001	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.001
PFAS in Drinking Water (ADWG 2025)																		
PFAS NEMP 2025 Freshwater 95%																		
PFAS NEMP 2025 Freshwater 99%																		
PFAS NEMP 2025 Recreational water quality guideline																		2
Field ID	**Location Code**	**Date**	**Lab Report Number**															
0445S_SW323_251017	**SW323**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.68**
0445S_SW326_251017	**SW326**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.93**
0445S_SW338_251016	**SW338**	**16 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.43**
0445S_SW346_251017	**SW346**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.66**
0445S_SW349_251017	**SW349**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**1.52**
0445S_SW355_251017	**SW355**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.17**
0445N_SW374_251015	**SW374**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.12**
0445N_SW375_251015	**SW375**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.11**
0445E_SW382_251016	**SW382**	**16 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
0445E_SW387_251015	**SW387**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.52**
0445E_SW388_251015	**SW388**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.12**
0445_SW390_131013	**SW390**	**17 Oct 2025**	**1282063**	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
0445_SW393_251017	**SW393**	**17 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
0445_SW395_251015	**SW395**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.08**
0445_SW396_251015	**SW396**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**4.4**
0445_SW397_251015	**SW397**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**9.8**
0445_SW398_251015	**SW398**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
0445_SW400_251015	**SW400**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.48**
0445_SW401_251015	**SW401**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.37**
0445_SW403_251013	**SW403**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.32**
0445_SW404_251013	**SW404**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
0445_SW405_251013	**SW405**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.12**
0445_SW409_251013	**SW409**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**
0445_SW412_251013	**SW412**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.07**
0445_SW416_251013	**SW416**	**13 Oct 2025**	**1282063**	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.001
0445_SW427_251015	**SW427**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.06**
0445_SW430_251015	**SW430**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.02**
0445_SW431_251015	**SW431**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.05**
0445_SW432_251015	**SW432**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.06**
0445_SW434_251015	**SW434**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01
0445_SW462_251013	**SW462**	**13 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.07**
0445_SW470_251015	**SW470**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**0.28**
0445_SW471_251015	**SW471**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**3.01**
0445_SW487_251015	**SW487**	**15 Oct 2025**	**1282063**	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	**8.4**

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

Bandiana Military Area
October 2025 OMP
Table B2 - Surface Water Analytical Results

				PFAS		
				Sum of PFAS (WA DER List)	Perfluolohexadecanoic acid (PFHxDA)	Sum of PFAS
				µg/L	µg/L	µg/L
EQL				0.005	0.05	0.005
PFAS in Drinking Water (ADWG 2025)						
PFAS NEMP 2025 Freshwater 95%						
PFAS NEMP 2025 Freshwater 99%						
PFAS NEMP 2025 Recreational water quality guideline						
Field ID	**Location Code**	**Date**	**Lab Report Number**			
0445S_SW323_251017	**SW323**	**17 Oct 2025**	**1282063**	**1.92**	-	**2.0**
0445S_SW326_251017	**SW326**	**17 Oct 2025**	**1282063**	**1.11**	-	**1.1**
0445S_SW338_251016	**SW338**	**16 Oct 2025**	**1282063**	**1.73**	-	**1.8**
0445S_SW346_251017	**SW346**	**17 Oct 2025**	**1282063**	**2.15**	-	**2.3**
0445S_SW349_251017	**SW349**	**17 Oct 2025**	**1282063**	**1.97**	-	**2.1**
0445S_SW355_251017	**SW355**	**17 Oct 2025**	**1282063**	**0.22**	-	**0.2**
0445N_SW374_251015	**SW374**	**15 Oct 2025**	**1282063**	**0.17**	-	**0.2**
0445N_SW375_251015	**SW375**	**15 Oct 2025**	**1282063**	**0.15**	-	**0.2**
0445E_SW382_251016	**SW382**	**16 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445E_SW387_251015	**SW387**	**15 Oct 2025**	**1282063**	**0.6**	-	**0.7**
0445E_SW388_251015	**SW388**	**15 Oct 2025**	**1282063**	**0.12**	-	**0.1**
0445_SW390_131013	**SW390**	**17 Oct 2025**	**1282063**	*<0.005*	-	*<0.005*
0445_SW393_251017	**SW393**	**17 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445_SW395_251015	**SW395**	**15 Oct 2025**	**1282063**	**0.12**	-	**0.1**
0445_SW396_251015	**SW396**	**15 Oct 2025**	**1282063**	**5.78**	-	**6.5**
0445_SW397_251015	**SW397**	**15 Oct 2025**	**1282063**	**12.32**	-	**13**
0445_SW398_251015	**SW398**	**15 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445_SW400_251015	**SW400**	**15 Oct 2025**	**1282063**	**0.63**	-	**0.7**
0445_SW401_251015	**SW401**	**15 Oct 2025**	**1282063**	**0.48**	-	**0.5**
0445_SW403_251013	**SW403**	**13 Oct 2025**	**1282063**	**0.4**	-	**0.4**
0445_SW404_251013	**SW404**	**13 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445_SW405_251013	**SW405**	**13 Oct 2025**	**1282063**	**0.15**	-	**0.2**
0445_SW409_251013	**SW409**	**13 Oct 2025**	**1282063**	**0.09**	-	*<0.1*
0445_SW412_251013	**SW412**	**13 Oct 2025**	**1282063**	**0.11**	-	**0.1**
0445_SW416_251013	**SW416**	**13 Oct 2025**	**1282063**	*<0.005*	-	*<0.005*
0445_SW427_251015	**SW427**	**15 Oct 2025**	**1282063**	**0.09**	-	*<0.1*
0445_SW430_251015	**SW430**	**15 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445_SW431_251015	**SW431**	**15 Oct 2025**	**1282063**	**0.07**	-	*<0.1*
0445_SW432_251015	**SW432**	**15 Oct 2025**	**1282063**	**0.08**	-	*<0.1*
0445_SW434_251015	**SW434**	**15 Oct 2025**	**1282063**	*<0.05*	-	*<0.1*
0445_SW462_251013	**SW462**	**13 Oct 2025**	**1282063**	**0.09**	-	*<0.1*
0445_SW470_251015	**SW470**	**15 Oct 2025**	**1282063**	**0.33**	-	**0.4**
0445_SW471_251015	**SW471**	**15 Oct 2025**	**1282063**	**4.24**	-	**5.1**
0445_SW487_251015	**SW487**	**15 Oct 2025**	**1282063**	**10.54**	-	**12**

Environmental Standards
NHMRC, 25 June 2025, PFAS in Drinking Water (ADWG 2025)
HEPA, March 2025, PFAS NEMP 2025 Freshwater 95%
HEPA, March 2025, PFAS NEMP 2025 Freshwater 99%
HEPA, March 2025, PFAS NEMP 2025 Recreational water quality guideline

Appendix C Physical Parameter Results Tables

Tables provided are as follows:

- Table C1 – Groundwater Gauging Data;
- Table C2 – Groundwater Field Parameters; and
- Table C3 – Surface Water Field Parameters.

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Table C1 - Groundwater Field Gauging Data Oct

Property ID	Well ID	Gauging Date	Aquifer	Approx. Height of Stick Up (mbgl)	Screen depth (mbgl)	Approx. Well Depth (mbgl)	Measured Well Depth (mbtoc)	Depth to Water (mbtoc)	Water Column Depth (m)	TOC Elevation (mAHD)	Ground- water Elevation (mAHD)	Condition of Well
0445	MW009	14/10/2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	0.620	8.6-11.6	11.600	12.298	7.618	9.680	166.280	158.662	Good
0445	MW012	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.380	7.2-10.2	10.200	10.551	8.524	2.027	167.360	158.836	Good
0445	MW016	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.934	6.8-9.8	9.800	10.785	7.680	3.105	166.160	158.480	Good
0445	MW018	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.870	6.27-9.27	9.270	10.405	7.025	3.380	165.430	158.405	Good
0445	MW020	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.780	5.5-8.5	8.500	7.042	7.015	0.027	165.410	158.395	Good
0445	MW029	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.835	7-10	10.000	11.089	8.626	2.463	168.110	159.484	Good
0445	MW034	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.940	6.9-9.9	9.900	11.117	8.225	2.892	166.630	158.405	Good
0445	MW035	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.952	7.2-10.3	10.300	11.264	7.782	3.482	166.220	158.438	Good
0445	MW042	14/10/2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	0.875	15-17	17.000	17.321	8.112	9.209	166.620	158.508	Good
0445	MW043	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.821	9.8-12.3	12.300	13.305	8.014	5.291	166.550	158.536	Good
0445	MW046_D	14/10/2025	Shepparton and Coonambidgal Fluvium - Deep Aquifer	0.810	18-21	21.000	22.063	8.635	13.428	166.490	157.855	Good
0445	MW046_I	14/10/2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	0.810	11.4-13.4	13.400	13.293	8.071	5.222	166.480	158.409	Good
0445	MW051	14/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	28.17-31.17	31.170	30.720	23.965	6.755	187.950	163.985	Good
0445	MW052	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.750	6.06-11.06	11.060	10.825	7.690	3.135	168.490	160.800	Good
0445	MW302	15/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	17.83-20.83	20.829	20.855	14.024	6.831	173.881	159.857	Good
0445	MW303	14/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	20.41-23.41	23.410	23.404	17.644	5.760	176.823	159.179	Good
0445	MW304	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.650	18.78-21.78	21.780	21.780	15.682	6.098	176.131	160.449	Good
0445	MW305	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.810	18.96-21.96	21.960	22.020	17.285	4.735	177.794	160.509	Good
0445	MW307	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.830	24.37-27.37	27.370	27.700	19.645	27.700	181.086	161.441	Good
0445	MW311	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.750	19.71-22.71	22.710	23.065	19.174	3.891	182.452	163.278	Good
0445	MW312	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.670	14.64-17.64	17.640	17.760	11.268	6.492	175.841	164.573	Good
0445	MW313	14/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	30.89-33.89	33.890	34.500	29.855	4.645	193.128	163.273	Good
0445	MW315	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.650	37.75-41.75	41.750	42.020	40.952	1.068	204.875	163.923	Poor
0445	MW317	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.550	34.93-38.93	38.930	39.050	38.285	0.765	204.364	166.079	Good
0445	MW318	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.630	37.87-40.87	40.870	41.530	Dry	-	205.965	-	Good
0445	MW319	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.800	38.79-41.79	41.789	42.505	35.050	7.355	199.524	164.374	Good
0445	MW321	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.740	35.97-38.97	38.969	39.430	36.155	3.275	200.815	164.660	Good
0445	MW323	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.760	19.84-22.84	22.840	23.055	19.335	3.720	184.472	165.137	Good
0445	MW329	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.600	16.65-19.65	19.649	19.650	14.772	4.878	181.435	166.663	Good
0445	MW342	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.700	13.42-17.42	17.420	17.485	13.855	3.630	180.605	166.750	Good
0445	MW343	14/10/2025	Shepparton Colluvium - Shallow Aquifer	0.840	8.96-11.96	11.960	11.945	9.135	2.810	175.705	166.570	Good
0445	MW344	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.780	8.96-11.96	11.960	11.962	5.450	6.512	171.282	165.832	Good
0445	MW345	15/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.800	4.48-7.48	7.480	5.500	5.480	0.020	168.316	162.836	Good
0445	MW346	15/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.750	6.8-9.8	9.800	6.730	3.718	3.012	166.944	163.226	Good
0445	MW350_D	14/10/2025	Shepparton and Coonambidgal Fluvium - Deep Aquifer	0.660	17.5-19.5	19.500	20.365	8.867	11.498	168.229	159.362	Good
0445	MW350_S	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.640	6.5-9.5	9.500	10.082	8.735	1.347	168.232	159.497	Good

Table C1 - Groundwater Field Gauging Data Oct

Property ID	Well ID	Gauging Date	Aquifer	Approx. Height of Stick Up (mbgl)	Screen depth (mbgl)	Approx. Well Depth (mbgl)	Measured Well Depth (mbtoc)	Depth to Water (mbtoc)	Water Column Depth (m)	TOC Elevation (mAHD)	Ground- water Elevation (mAHD)	Condition of Well
0445	MW351	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.680	5.82-8.82	8.820	8.825	6.198	2.627	164.790	158.592	Good
0445	MW352	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.750	6.779-9.779	9.779	9.810	5.941	3.869	164.493	158.552	Good
0445	MW353	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.839	6.8-9.8	9.800	7.949	7.840	0.109	166.625	158.785	Good
0445	MW354	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.810	7-10	10.000	10.981	7.550	3.431	166.142	158.592	Good
0445	MW356	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.712	0.75-3.75	3.750	3.750	1.710	2.040	156.882	155.172	Good
0445	MW357	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.756	2.29-5.29	5.290	6.304	2.678	3.626	156.243	153.565	Good
0445	MW360	15/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	9.9-12.9	12.900	12.927	8.600	4.327	164.890	156.290	Good
0445	MW361	15/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	3.3-6.3	6.300	6.295	2.478	3.817	153.716	151.238	Good
0445	MW403	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Gatic	6.98-9.98	9.980	9.900	7.425	2.475	166.926	159.501	Good
0445	MW404	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Gatic	7.03-10.03	10.030	10.052	7.302	2.750	166.617	159.315	Good
0445	MW406	14/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	15.09-21.09	21.090	21.295	17.985	3.310	183.590	165.605	Good
0445	MW411	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.810	6-9	9.000	9.225	6.702	2.523	164.810	158.108	Good
0445	MW412	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.850	1.5-4.5	4.500	5.280	0.943	4.337	158.705	157.762	Good
0445	MW413	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.800	6-9	9.000	9.885	6.942	2.943	165.375	158.433	Good
0445	MW414	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.870	1.5-4.5	4.500	5.155	0.935	4.220	157.720	156.785	Good
0445	MW415	14/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	0.800	6-9	9.000	9.270	6.932	2.338	165.190	158.258	Good
0445	MW416	14/10/2025	Shepparton Colluvium - Shallow Aquifer	Gatic	Unknown	Unknown	29.575	23.420	6.155	187.720	164.300	Good
0445	MW447	16/10/2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Gatic	6-9	9.000	8.630	4.225	4.405	164.537	160.312	Good

Table C2: Groundwater Field Parameters

Well ID	Hydrasleeve Deployment Date	Sample Collection Date	Aquifer	Sample Method / Comments	HydraSleeve Deployment Depth (mbtoc)	DO (mg/L)	EC (µS/cm)	pH	ORP (mV)	Temp (°C)	Turbidity	Water Colour	Odour	Sheen	Other Observations
MW046_I	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	HydraSleeve™	13.8	1.46	259	6.13	168.4	19.1	Clear	Colourless	No	No	No foaming
MW356	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	2.8	2.90	56	6.10	57.4	15.3	Clear	Colourless	No	No	No foaming, suspended orange debris
MW357	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	6.2	2.6	155.3	5.68	-58.7	16.2	Moderate	Colourless	No	No	No foaming, trace floating particles
MW414	13-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	5.5	1.11	295.1	6.14	174.8	17.4	Clear	Colourless	No	No	No foaming
MW052	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.7	1.44	2540	5.81	-41.2	17.7	Low - Moderate	Grey - White	Yes, sulfur	No	Foaming
MW043	14-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	13.2	2.56	262	6.2	175	18.0	Clear	Colourless	No	No	No foaming
MW346	15/10/2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	8.63	2.28	1645	6.48	109.2	18.2	Clear	Colourless	No	No	No foaming
MW018	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.3	1.74	546.0	6.6	148.6	18.2	Clear	Colourless	No	No	No foaming
MW009	14-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	HydraSleeve™	12.18	1.9	293	6.07	205.4	18.0	Clear	Colourless	No	No	No foaming
MW035	14-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	11.15	1.64	281	6.08	185.5	18.2	Clear	Colourless	No	No	No foaming
MW046_D	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Deep Aquifer	HydraSleeve™	21.9	2.92	267	6.29	156.3	19.4	Clear	Colourless	No	No	No foaming
MW042	14-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	HydraSleeve™	17.2	2.39	247	6.44	107.8	17.3	Clear	Colourless	No	No	No foaming
MW329	14-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	19.55	1.54	4967	6.01	94.2	18.1	Clear	Colourless	Yes, sulfur	No	No foaming
MW354	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.89	0.86	282	6.07	81	18.3	Low	Grey - White	No	No	No foaming
MW342	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	17.385	1.30	2006	7.02	-5.1	19.2	Low	Colourless	No	No	No foaming
MW312	14-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	17.66	0.86	4899	6.86	121.0	19.3	Clear	Colourless	No	No	No foaming
MW304	13-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	19	1.05	1285	6.5	68.3	19.4	Low	Grey - White	Yes	No	Foaming
MW361	15-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	6.89	0.89	625	6.59	-72.1	19.6	High	Brown	No	No	No foaming
MW323	14-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	20.955	2.4	5401	5.62	193.2	19.6	Low - Moderate	Grey	No	No	No foaming
MW305	13-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	18.5	1.04	1166.8	6.44	129.8	19.7	Clear	Colourless	Yes, sulfur	No	Foaming
MW315	13-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	Bailer	—	5.40	1881	6.95	111.9	19.9	High	Red - brown	No	No	No foaming
MW302	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	20.95	0.94	12413	6.29	134.7	20.0	Clear	Colourless	No	No	Foaming
MW343	14-10-2025	15-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	11.84	1.25	802	6.98	220.6	20.1	Moderate	Light brown	No	No	No foaming
MW311	14-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	22.065	3.03	8719	6.30	48.0	20.4	Moderate	Light Grey	No	No	No foaming
MW313	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	34.4	1.04	874	6.87	-97	21	Clear	Colourless	No	No	No foaming
MW416	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	29.47	0.45	3874	6.03	-131.4	21.0	Moderate	Colourless	No	No	No foaming
MW317	13-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	Bailer	—	5.02	1449	7.24	143.0	21.1	High	Grey	No	No	No foaming
MW051	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	30.62	0.90	2288	6.41	11.0	21.2	Low	Light yellow	No	No	No foaming
MW319	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	42.4	1.64	919	6.4	137.3	21.2	Clear	Colourless	No	No	No foaming
MW321	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	39.33	1.32	1102	6.42	77	21.3	Moderate	Orange	No	No	No foaming
MW344	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	11.86	1.97	3542	7.34	92	18.9	Low	Light brown	No	No	No foaming
MW020	15-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Bailer	—	3.84	359	6.44	33.5	19.1	Moderate	Grey - Brown	No	No	No foaming

Table C2: Groundwater Field Parameters

Well ID	Hydrasleeve Deployment Date	Sample Collection Date	Aquifer	Sample Method / Comments	HydraSleeve Deployment Depth (mbtoc)	DO (mg/L)	EC (µS/cm)	pH	ORP (mV)	Temp (°C)	Turbidity	Water Colour	Odour	Sheen	Other Observations
MW016	14-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.68	1.3	338	6.04	221	19.1	Low	Colourless	No	No	No foaming
MW350_D	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Deep Aquifer	HydraSleeve™	20.2	2.95	245	6.57	54.1	19.6	Clear	Colourless	No	No	No foaming
MW447	16-10-2025	17-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	8.53	2.76	2657	7.25	-25.1	19.2	Moderate	Light brown	No	No	No foaming
MW412	13-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	3	0.81	384.5	5.82	219.1	19.2	Low	Colourless	No	No	No foaming
MW351	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	8.7	1.96	136	5.83	179.5	19.4	Low	Light brown	No	No	No foaming
MW350_S	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.9	3.73	289	6.04	128.8	19.5	Moderate	Light brown	No	No	Foaming
MW411	13-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	7.5	3.14	326	5.83	206.7	19.5	High	Brown	No	No	No foaming
MW034	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	11	1.41	258	6.21	160.1	20	Moderate	Light brown	No	No	No foaming
MW307	14-10-2025	17-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	27.6	1.24	4553	6.51	-126.7	21.5	Low	Light brown	No	No	Foaming
MW303	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	23.5	0.49	9766	6.83	-96.2	22.1	Low	Light brown	No	No	Foaming
MW413	13-10-2025	15-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	8.5	3.07	254.4	5.99	182.8	19.7	Moderate	Light brown	No	No	No foaming
MW352	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.7	1.0	152	6.17	165.5	19.8	Clear	Colourless	No	No	No foaming
MW403	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.8	3.49	247	5.89	169.3	20.3	Low	Grey - White	No	No	No foaming
MW415	14-10-2025	15-20-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	7.5	3.44	374	5.95	194.0	20.5	High	Brown	No	No	No foaming
MW404	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	9.9	1.44	376	5.91	174.3	21.1	Low	Grey - White	No	No	No foaming
MW029	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.9	2.64	158	5.77	32.6	21.2	Moderate	Light brown	No	No	No foaming
MW012	14-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	HydraSleeve™	10.45	2.50	261	6.14	171.9	21.8	Low	White - Grey	No	No	No foaming
MW360	15-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	12.8	1.13	1195	7.56	-60.3	22.2	Clear	Colourless	No	No	No foaming
MW345	15-10-2025	16-10-2025	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Bailer	—	5.5	5052	7.19	184.7	22.7	High	Brown	No	No	No foaming, suspended orange debris
MW406	14-10-2025	16-10-2025	Shepparton Colluvium - Shallow Aquifer	HydraSleeve™	21.195	1.91	4576	5.86	126.3	22.3	Clear	Colourless	No	No	No foaming
OTH019	-	13-10-2025	Shepparton and Coonambidgal Fluvium	Point Source Tap	-	5.12	310	6.26	65.5	17.3	Clear	Colourless	No	No	No foaming

Notes
DO - Dissolved Oxygen
EC - Electrical Conductivity
ORP - Corrected Oxidation Reduction Potential
µS/cm - microsiemens per centimetre mV - millivolts
°C - degrees Celsius

Table C3: Surface Water Field Parameters

Location ID	Sample Date	Water Body	Flow	Sample Depth (m)	pH	Temp (°C)	DO (mg/L)	EC (µS/cm)	ORP (mV)	Colour / Turbidity	Odour	Sheen	Shake Test	Other Observations
SW323	17/10/2025	Dam	Stagnant	0.10	8.44	23.7	5.49	218.1	67.5	Light brown, moderate turbidity	No	No	Foaming	Trace suspedned solids and macroorganisms present
SW326	17/10/2025	Drain	Stagnant	0.10	5.88	18.5	1.92	297.1	112.2	Slightly yellow, low turbidity	Organic odour	No	No foaming	-
SW338	16/10/2025	Dam	Stagnant	0.10	9.77^	26.3	7.37	220.8	38.6	Colourless, low turbidity	No	No	No foaming	Trace suspedned solids present
SW346	17/10/2025	Ornamental Pond	Stagnant	0.10	6.54	15.3	1.35	141.8	111.8	Slightly yellow, low turbidity	No	No	No foaming	Some suspended solids present, many microorganisms present
SW349	17/10/2025	Ornamental Pond	Gentle	0.10	8.06	21.5	5.90	105.8	470.0	Light brown, low turbidity	No	No	No foaming	-
SW355	17/10/2025	Ornamental Pond	Gentle	0.10	7.60	22.2	4.94	76.9	65.4	Light brown, no turbidity	No	No	No foaming	-
SW374	15/10/2025	Drain	Stagnant	0.10	8.13	22.1	6.36	262.2	53.5	Light brown, low turbidity	No	No	No foaming	-
SW375	15/10/2025	Drain	Stagnant	0.10	6.84	16.3	3.61	119.3	120.9	Colourless, no turbidity	No	No	No foaming	-
SW382	16/10/2025	Dam	Stagnant	0.20	6.42	23.5	6.50	24.2	158.0	Slightly yellow, low turbidity	Organic odour	No	No foaming	Suspended solids present
SW387	15/10/2025	Drain	Stagnant	0.10	6.14	17.2	3.84	328.5	188.7	Colourless, low turbidity	No	No	No foaming	-
SW388	15/10/2025	Drain	Stagnant	0.10	6.50	19.4	6.50	137.0	197.2	Colourless, no turbidity	No	No	No foaming	-
SW390	13/10/2025	Kiewa River	Moderate	0.20	6.75	17.3	7.45	26.8	65.5	Colourless, no turbidity	No	No	No foaming	Little suspended solids
SW393	17/10/2025	Middle Creek	Stagnant	0.10	8.33	18.5	5.97	256.0	74.1	Colourless, no turbidity	No	No	No foaming	-
SW395	15/10/2025	Oxbow	Stagnant	0.10	7.24	18.7	6.87	71.6	159.0	Colourless, low turbidity	No	No	No foaming	Little algea present
SW396	15/10/2025	Oxbow	Stagnant	0.10	6.98	20.3	2.64	575.0	193.6	Brown, high turbidity	No	No	No foaming	-
SW397	15/10/2025	Oxbow	Stagnant	0.10	7.08	18.3	5.13	359.3	220.2	Light brown, moderate turbidity	No	No	No foaming	-
SW398	15/10/2025	Kiewa River	High Flow	0.10	7.03	15.0	8.53	23.6	158.1	Colourless, no turbidity	No	No	No foaming	-
SW400	15/10/2025	Oxbow	Stagnant	0.10	7.05	27.3	5.32	255.2	180.3	Brown, low turbidity	No	No	No foaming	Suspended solids present
SW401	15/10/2025	Oxbow	Stagnant	0.10	6.43	28.2	1.22	282.1	192.2	Brown, low turbidity	Brackish odour	No	No foaming	Suspended solids present
SW403	13/10/2025	Oxbow	Stagnant	0.20	6.92	18.0	7.36	192.6	75.2	Yellow, low turbidity	No	Yes	Foaming	Some suspended solids present
SW404	13/10/2025	Kiewa River	Moderate	0.20	7.24	14.8	9.53	23.4	184.9	Colourless, no turbidity	No	No	No foaming	Few suspended solids present
SW405	13/10/2025	Kiewa River	Stagnant	0.05	7.19	18.9	5.84	498.0	119.1	Yellow, low turbidity	No	No	No foaming	Some suspended solids present
SW409	13/10/2025	Unnamed Creek	Stagnant	0.10	6.71	13.20	3.22	136.4	167.4	Slightly yellow, low turbidity	No	No	No foaming	Some suspended solids present
SW412	13/10/2025	Oxbow	Gentle	0.05	6.48	22.7	6.48	301.1	77.5	Slightly yellow, no turbidity	No	No	No foaming	-
SW416	13/10/2025	Kiewa River	Moderate	0.10	8.90	14.7	8.90	22.3	145.7	Colourless, no turbidity	No	No	No foaming	Few suspended solids present
SW427	15/10/2025	Jack in the Box Creek	Gentle	0.10	7.22	14.2	7.35	88.6	7.2	Colourless, no turbidity	No	No	Foaming	-

Table C3: Surface Water Field Parameters

Location ID	Sample Date	Water Body	Flow	Sample Depth (m)	pH	Temp (°C)	DO (mg/L)	EC (µS/cm)	ORP (mV)	Colour / Turbidity	Odour	Sheen	Shake Test	Other Observations
SW430	15/10/2025	Jack in the Box Creek	Gentle	0.10	7.46	22.30	5.54	114.4	109.7	Colourless, no turbidity	Sewage odour	Yes	No foaming	Many suspended solids
SW431	15/10/2025	Jack in the Box Creek	Stagnant	0.05	6.77	16.8	5.95	136.4	110.1	Slightly yellow, no turbidity	No	No	No foaming	Lots of algea and suspended solids, some macroorganisms
SW432	15/10/2025	Jack in the Box Creek	Gentle	0.01	7.21	18.4	9.91	137.6	145.8	Slightly yellow, no turbidity	No	No	No foaming	Many suspended solids
SW434	15/10/2025	Jack in the Box Creek	Stagnant	0.10	6.69	17.6	6.81	37.6	186.9	Colourless, no turbidity	No	No	No foaming	Some suspended solids present
SW462	13/10/2025	Unnamed Creek	Stagnant	0.05	7.39	17.7	7.39	296.6	230.1	Slightly yellow, no turbidity	No	No	No foaming	-
SW470	15/10/2025	Oxbow	Stagnant	0.10	6.56	17.5	3.66	115.5	190.9	Brown, no turbidity	No	No	No foaming	-
SW471	15/10/2025	Oxbow	Stagnant	0.10	6.97	24.6	6.49	436.5	189.4	Brown, no turbidity	No	No	No foaming	Some suspended solids present
SW487	15/10/2025	Oxbow	Stagnant	0.10	6.83	19.2	3.59	558.7	145.8	Light brown, moderate turbidity	No	No	No foaming	-

Notes
DO - Dissolved Oxygen
EC - Electrical Conductivity
ORP - Corrected Oxidation Reduction Potential
µS/cm - microsiemens per centimetre mV - millivolts
°C - degrees Celsius
^Measuerment appears erroneous

Appendix D Data Quality Assessment

Data Validation	
Project Number:	61395
Client:	Department of Defence
Site:	Bandiana Military Area
Matrix Type:	Groundwater and surface water
Laboratory:	Eurofins, ALS

Table D.1: Data Quality Assessment Summary

Precision		
Intra laboratory Duplicates (blind)	Relative Percent Differences (RPDs) less than 30.	***Groundwater*** A total of six groundwater blind duplicates was collected and analysed. Blind duplicates were collected and analysed at a rate of 1/10 primary samples. A total of one out of 174 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. This was PFOS in sample 0445_QC101_251013 which had an RPD of 31%. Inter-laboratory duplicate taken from the same primary sample did not exceed the data quality indicator. Analyte concentrations between the primary and corresponding blind duplicate samples were within an order of magnitude (i.e. 0.19 µg/L verses 0.26 µg/L), and the RPD exceedances are likely associated with the low concentrations reported. As such, the exceedances are not considered to impact the validity of the data. ***Surface water*** A total of three surface water blind duplicates were collected and analysed. Blind duplicates were collected and analysed at a rate of 1/10 primary samples. None of the 87 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. RPD Results are presented in **Table D1** in this appendix.
Inter laboratory duplicates (split)	RPDs less than 30.	***Groundwater*** A total of six groundwater split duplicates was collected and analysed. Split duplicates were collected and analysed at a rate of 1/10 primary samples. A total of one out of 174 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. This was 6:2 Fluorotelomer sulfonic acid in sample 0445_QC201_251017 which had an RPD of 58%. Intra-laboratory duplicate taken from the same primary sample did not exceed the data quality indicator. Analyte concentrations between the primary and corresponding blind duplicate samples were within an order of magnitude (i.e. 14 µg/L verses 25.5 µg/L). As such, the exceedances are not considered to impact the validity of the data. ***Surface water***

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		A total of three surface water split duplicates were collected and analysed. Split duplicates were collected and analysed at a rate of 1/10 primary samples. None of the 87 replicate analytes (excluded 'analytes' which are a summation of other analytes) exceeded the data quality indicator. RPD Results are presented in **Table D1** in this appendix.
Laboratory duplicates	RPDs less than 30.	A total of 15 laboratory duplicates were analysed by the laboratory. A total of two out of 359 replicate analytes (excluded 'analytes' which are a summation of other analytes). This was PFOS (40%) and PFHxS (31%) for sample 0445_OTH019_251013. Analyte concentrations between the primary and corresponding lab duplicate were 0.30 and 0.22 µg/L for PFHxS and 0.15 and 0.1 µg/L for PFOS.
Accuracy		
Laboratory control samples	Recoveries between 70-130%.	34 out of 450 lab control samples were outside of the target recovery range with the majority of those below 70%, which ranged from 50% to 69%. All recovery ranges outside of the target range were related to PFAS which do not have assessment criteria as part of this assessment. Overall, lab control samples outside of the target range do not impact the validity of the data.
Laboratory matrix spikes	Recoveries between 70-130%.	38 out of 197 lab matrix spikes were outside of the target recovery range with the majority of those below 70%, which ranged from 50% to 69%. All recovery ranges outside of the target range were related to PFAS which do not have assessment criteria as part of this assessment. Overall, lab matrix spike samples outside of the target range do not impact the validity of the data.
Laboratory surrogates spikes	Recoveries between 50-150%	244 out of 2,754 surrogate spikes were outside of the target range with the majority of those below 70%. All recovery ranges outside of the target range were related to PFAS which do not have assessment criteria as part of this assessment. Overall, lab matrix spike samples outside of the target range do not impact the validity of the data.
Equipment calibration	-	All field equipment was calibrated by the equipment supplier. Calibration certificates have been provided as **Appendix E.**
Representativeness		
Sampling appropriate for media and analytes	-	Samples were collected using appropriate methods, in accordance with the methodology detailed within the SAQP (JBS&G 2025) and as detailed in this SER.
Samples extracted and analysed within holding times.	All samples within holding time	The review of holding times from the relevant laboratory reports showed that all samples were extracted and analysed within recommended holding times (28 days for PFAS in water samples when refrigerated).
Field trip blanks	Less than lab LOR.	A total of six trip blanks were submitted and analysed for PFAS. Results are presented in **Table D2** in this appendix. All analytes reported concentrations below the LOR.
Field rinsate blanks	Less than lab LOR.	Rinsate blank samples were collected at a frequency of one per day of sampling per field crew where reusable equipment is used (seven in total). Rinsate blank samples were collected from the decontaminated interface probe.

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		Results are presented in **Table D2** in this appendix. PFAS concentrations were reported below the LOR in all samples tested.
Field blanks	Less than lab LOR.	A total of five field blank samples were collected (one per day of sampling) and submitted for analysis for PFAS. Results are presented in **Table D2** in this appendix. All analytes reported concentrations below the LOR.
Laboratory blanks	Less than the lab LOR.	All 505 lab blanks (excluded 'analytes' which are a summation of other analytes and surrogate data from the secondary lab) reported concentrations below the LOR.
Equipment decontamination	-	Non-dedicated sampling equipment was decontaminated between sample locations, in accordance with the SAQP (JBS&G 2025) and as detailed in this SER.
Comparability		
Standard operating procedures for samples collection and handling		Sampling was completed in accordance with methodologies outlined in the SAQP (JBS&G 2025).
Standard analytical methods used for all analysis.		Samples were analysed using NATA accredited methods.
Consistent field conditions, sampling staff and laboratory analysis		Sampling was completed by appropriately trained and qualified personnel.
Limit of reporting appropriate and consistent		The LOR was generally sufficiently low to enable assessment against adopted screening criteria. LORs were higher than the Freshwater (99% species protection) and Drinking water screening criterion of 0.00023 µg/L and 0.008 µg/L respectively, however this is consistent with previous investigations and in accordance with the SAQP (JBS&G 2025). Furthermore, given that PFOS results were higher than the LOR of 0.01 µg/L for 89% of collected samples, the LOR did not significantly impact the program objectives and findings.
Completeness		
Program	All critical locations sampled	The scope of works was undertaken in general accordance with the SAQP (JBS&G 2025) and as prescribed by the OMP with the exception of the 19 surface water and two groundwater locations which were found dry at the time of sampling. This deviation is not considered to have a material impact on the program objectives and findings (see **Section 3** for further context).

Table D.2: Summary of field and laboratory QA/QC samples compared to Data Quality Indicator (DQI)

QA/QC sample type	Total no. of results	No. of results meeting data quality indicator	Percentage meeting data quality indicator
Field blinds (intra-lab)	261	260	99%
Field splits (inter-lab)	261	260	99%
Field rinsates	224	224	100%
Field trip blanks	192	192	100%
Field blanks	160	160	100%
Lab duplicates	359	357	99%
Lab blanks	505	505	100%

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Lab matrix spikes	197	159	81%
Lab control samples	450	416	92%
Lab surrogate spikes	2754	2510	91%
Overall	**2609**	**2533**	**96%**

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Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445_SW403_251013	0445_QC101_251013		0445_SW403_251013	0445_QC201_251013	
		Date	13 Oct 2025	13 Oct 2025		13 Oct 2025	13 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.019**	5
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.023**	14
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.13**	**0.14**	7	**0.13**	**0.121**	7
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.19**	**0.26**	31	**0.19**	**0.171**	11
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.05*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.05**	*<0.01*	133	**0.05**	*<0.010*	133
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.01**	**0.02**	67	**0.01**	**0.013**	26
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**0.32**	**0.4**	22	**0.32**	**0.292**	9
Sum of PFAS (WA DER List)	µg/L	0.05	**0.4**	**0.44**	10	**0.4**	**0.324**	21
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**0.4**	**0.5**	22	**0.4**	**0.347**	14

***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: Unlimtied (1 - 10 x EQL); 50 (10 - 20 x EQL); 30 (> 20 x EQL))**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any methods in the row header relate to those used in the primary laboratory**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445_MW412_251015	0445_QC101_251015		0445_MW412_251015	0445_QC201_251015	
		Date	15 Oct 2025	15 Oct 2025		15 Oct 2025	15 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.13**	**0.13**	0	**0.13**	**0.145**	11
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.14**	**0.14**	0	**0.14**	**0.157**	11
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**1.2**	**1.3**	8	**1.2**	**1.15**	4
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.08**	**0.08**	0	**0.08**	**0.095**	17
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**3.3**	**3.3**	0	**3.3**	**2.99**	10
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.05*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.04**	**0.04**	0	**0.04**	**0.038**	5
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.19**	**0.19**	0	**0.19**	**0.186**	2
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.04**	**0.04**	0	**0.04**	**0.037**	8
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.08**	**0.09**	12	**0.08**	**0.089**	11
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**4.5**	**4.6**	2	**4.5**	**4.14**	8
Sum of PFAS (WA DER List)	µg/L	0.05	**4.98**	**5.09**	2	**4.98**	**4.64**	7
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**5.2**	**5.4**	4	**5.2**	**4.94**	5

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445_SW401_251015	0445_QC103_251015		0445_SW401_251015	0445_QC203_251015	
		Date	15 Oct 2025	15 Oct 2025		15 Oct 2025	15 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.025**	22
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.025**	22
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.16**	**0.14**	13	**0.16**	**0.152**	5
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.21**	**0.16**	27	**0.21**	**0.198**	6
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.05*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.07**	*<0.01*	150	**0.07**	*<0.010*	150
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.02**	*<0.01*	67	**0.02**	**0.015**	29
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.05*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**0.37**	**0.3**	21	**0.37**	**0.350**	6
Sum of PFAS (WA DER List)	µg/L	0.05	**0.48**	**0.32**	40	**0.48**	**0.390**	21
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**0.5**	**0.4**	22	**0.5**	**0.415**	19

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445E_MW042_251015	0445_QC102_251015		0445E_MW042_251015	0445_QC202_251015	
		Date	15 Oct 2025	15 Oct 2025		15 Oct 2025	15 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.59**	**0.66**	11	**0.59**	**0.763**	26
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.64**	**0.72**	12	**0.64**	**0.840**	27
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**5.3**	**4.9**	8	**5.3**	**5.17**	2
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.41**	**0.34**	19	**0.41**	**0.416**	1
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**5.2**	**7.0**	30	**5.2**	**6.28**	19
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	**0.17**	**0.18**	6	**0.17**	**0.20**	16
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.33**	**0.30**	10	**0.33**	**0.266**	21
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**1.2**	**1.3**	8	**1.2**	**1.25**	4
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.18**	**0.19**	5	**0.18**	**0.205**	13
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.41**	**0.38**	8	**0.41**	**0.395**	4
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	**0.15**	**0.17**	13	**0.15**	**0.155**	3
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**10.5**	**11.9**	13	**10.5**	**11.4**	8
Sum of PFAS (WA DER List)	µg/L	0.05	**13.53**	**15.08**	11	**13.53**	**14.7**	8
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**15**	**16**	6	**15**	**16.2**	8

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445E_MW046_D_251016	0445_QC102_251016		0445E_MW046_D_251016	0445_QC202_251016	
		Date	16 Oct 2025	16 Oct 2025		16 Oct 2025	16 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.09**	**0.10**	11	**0.09**	**0.122**	30
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.09**	**0.12**	29	**0.09**	**0.146**	47
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**1.3**	**1.5**	14	**1.3**	**1.28**	2
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.07**	**0.07**	0	**0.07**	**0.088**	23
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**2.4**	**2.7**	12	**2.4**	**2.27**	6
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.05*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.05**	**0.04**	22	**0.05**	**0.036**	33
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.18**	**0.22**	20	**0.18**	**0.187**	4
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.021**	5
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.06**	**0.06**	0	**0.06**	**0.061**	2
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**3.7**	**4.2**	13	**3.7**	**3.55**	4
Sum of PFAS (WA DER List)	µg/L	0.05	**4.1**	**4.64**	12	**4.1**	**3.98**	3
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**4.3**	**4.9**	13	**4.3**	**4.25**	1

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445N_MW344_251016	0445_QC101_251016		0445N_MW344_251016	0445_QC201_251016	
		Date	16 Oct 2025	16 Oct 2025		16 Oct 2025	16 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.01**	**0.02**	67	**0.01**	<0.010	0
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	**0.02**	<0.01	67	**0.02**	<0.010	67
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**0.01**	**0.02**	67	**0.01**	<0.010	0
Sum of PFAS (WA DER List)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	<0.010	-
Sum of PFAS	µg/L	0.1	<0.1	<0.1	0	<0.1	<0.100	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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445S_SW338_251016	0445_QC103_251016		0445S_SW338_251016	0445_QC203_251016	
		Date	16 Oct 2025	16 Oct 2025		16 Oct 2025	16 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**0.04**	**0.04**	0	**0.04**	**0.047**	16
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**0.04**	**0.04**	0	**0.04**	**0.043**	7
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**0.33**	**0.31**	6	**0.33**	**0.278**	17
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**0.02**	**0.01**	67	**0.02**	**0.017**	16
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**1.1**	**0.96**	14	**1.1**	**1.03**	7
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.05*	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**0.04**	**0.04**	0	**0.04**	**0.034**	16
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**0.15**	**0.14**	7	**0.15**	**0.136**	10
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**0.02**	**0.02**	0	**0.02**	**0.024**	18
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**0.05**	**0.05**	0	**0.05**	**0.046**	8
Perfluorononanoic acid (PFNA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**1.43**	**1.27**	12	**1.43**	**1.31**	9
Sum of PFAS (WA DER List)	µg/L	0.05	**1.73**	**1.56**	10	**1.73**	**1.60**	8
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**1.8**	**1.6**	12	**1.8**	**1.66**	8

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445S_MW305_251017	0445_QC102_251017		0445S_MW305_251017	0445_QC202_251017	
		Date	17 Oct 2025	17 Oct 2025		17 Oct 2025	17 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**0.01**	**0.03**	100	**0.01**	<0.010	0
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.05	0
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorooctanoic acid (PFOA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorononanoic acid (PFNA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorodecanoic acid (PFDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	<0.05	<0.01	0	<0.05	<0.010	0
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	<0.01	<0.01	0	<0.01	<0.010	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**0.01**	**0.03**	100	**0.01**	<0.010	0
Sum of PFAS (WA DER List)	µg/L	0.05	<0.05	<0.05	0	<0.05	<0.050	0
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	<0.010	-
Sum of PFAS	µg/L	0.1	<0.1	<0.1	0	<0.1	<0.100	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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D1 - RPD Summary Table

		Field ID	0445S_MW307_251017	0445_QC101_251017		0445S_MW307_251017	0445_QC201_251017	
		Date	17 Oct 2025	17 Oct 2025		17 Oct 2025	17 Oct 2025	
		Lab Report Number	1282063	1282063		1282063	EM2520615	
		Sample Type	Normal	Field_D	RPD	Normal	Interlab_D	RPD
	Unit	EQL						
PFAS - Perfluoroalkyl Sulfonic Acids								
Perfluorobutane sulfonic acid (PFBS)	µg/L	0.01	**30**	**27**	11	**30**	**24.1**	22
Perfluoropentane sulfonic acid (PFPeS)	µg/L	0.01	**26**	**25**	4	**26**	**20.7**	23
Perfluorohexane sulfonic acid (PFHxS)	µg/L	0.01	**140**	**130**	7	**140**	**113**	21
Perfluoroheptane sulfonic acid (PFHpS)	µg/L	0.01	**10**	**10**	0	**10**	**11.1**	10
Perfluorooctane sulfonic acid (PFOS)	µg/L	0.01	**30**	**38**	24	**30**	**29.9**	0
Perfluorononanesulfonic acid (PFNS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorodecane sulfonic acid (PFDS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	µg/L	0.05	**5.5**	**5.5**	0	**5.5**	**4.69**	16
Perfluoropentanoic acid (PFPeA)	µg/L	0.01	**17**	**18**	6	**17**	**15.3**	11
Perfluorohexanoic acid (PFHxA)	µg/L	0.01	**42**	**44**	5	**42**	**37.1**	12
Perfluoroheptanoic acid (PFHpA)	µg/L	0.01	**8.0**	**7.1**	12	**8.0**	**6.54**	20
Perfluorooctanoic acid (PFOA)	µg/L	0.01	**10**	**12**	18	**10**	**10.8**	8
Perfluorononanoic acid (PFNA)	µg/L	0.01	**0.16**	**0.18**	12	**0.16**	**0.169**	5
Perfluorodecanoic acid (PFDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluoroundecanoic acid (PFUnDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorododecanoic acid (PFDoDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotridecanoic acid (PFTrDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
Perfluorotetradecanoic acid (PFTeDA)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	µg/L	0.01	**0.23**	**0.26**	12	**0.23**	**0.223**	3
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	µg/L	0.05	**14**	**15**	7	**14**	**25.5**	58
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	µg/L	0.01	*<0.01*	*<0.01*	0	*<0.01*	*<0.010*	0
PFAS - Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamide (MeFOSA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	µg/L	0.05	*<0.2*	*<0.05*	0	*<0.2*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	µg/L	0.05	*<0.05*	*<0.05*	0	*<0.05*	*<0.050*	0
PFAS								
Sum of PFHxS and PFOS	µg/L	0.01	**170**	**168**	1	**170**	**143**	17
Sum of PFAS (WA DER List)	µg/L	0.05	**296.5**	**296.6**	0	**296.5**	**267**	10
Perfuolohexadecanoic acid (PFHxDA)	µg/L	0.01	-	-	-	-	*<0.010*	-
Sum of PFAS	µg/L	0.1	**350**	**350**	0	**350**	**314**	11

***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: L**
*****Interlab Duplicates are matched on a per compound basis as methods vary between laboratories. Any method**

Bandiana Military Area
October 2025 OMP
Table D2 - Field Blanks Summary Table

				PFAS - Perfluoroalkyl Sulfonic Acids							PFAS - Perfluoroalkyl Carboxylic Acids									
				Perfluorobutane sulfonic acid (PFBS)	Perfluoropentane sulfonic acid (PFPeS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluoroheptane sulfonic acid (PFHpS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorononanesulfonic acid (PFNS)	Perfluorodecane sulfonic acid (PFDS)	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)
				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				0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.05	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Field ID	**Date**	**Lab Report Number**	**Sample Type**																	
0445_QC301_251013	**13 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC301_251014	**15 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC301_251015	**15 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC301_251016	**16 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC301_251017	**17 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC302_251014	**14 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC302_251017	**17 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC401_251013	**13 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC401_251014	**14 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC401_251015	**15 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC401_251016	**16 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC401_251017	**17 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC501_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC502_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC503_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC504_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC505_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
0445_QC506_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Bandiana Military Area
October 2025 OMP
Table D2 - Field Blanks Summary Table

					PFAS - (n:2) Fluorotelomer Sulfonic Acids				PFAS - Perfluoroalkyl Sulfonamides							PFAS		
				Perfluorotetradecanoic acid (PFTeDA)	4:2 Fluorotelomer sulfonic acid (4:2 FTS)	6:2 Fluorotelomer sulfonic acid (6:2 FTS)	8:2 Fluorotelomer sulfonic acid (8:2 FTS)	10:2 Fluorotelomer sulfonic acid (10:2 FTS)	Perfluorooctane sulfonamide (FOSA)	N-Methyl perfluorooctane sulfonamide (MeFOSA)	N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	N-methyl perfluorooctane sulfonamidoethanol (MeFOSE)	N-Ethyl perfluorooctane sulfonamide (EtFOSA)	N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	Sum of PFHxS and PFOS	Sum of PFAS (WA DER List)	Sum of PFAS
				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				0.01	0.01	0.05	0.01	0.01	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.01	0.05	0.1
Field ID	**Date**	**Lab Report Number**	**Sample Type**															
0445_QC301_251013	**13 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC301_251014	**15 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC301_251015	**15 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC301_251016	**16 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC301_251017	**17 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC302_251014	**14 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC302_251017	**17 Oct 2025**	**1282063**	**Rinsate**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC401_251013	**13 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC401_251014	**14 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC401_251015	**15 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC401_251016	**16 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC401_251017	**17 Oct 2025**	**1282063**	**Field_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC501_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC502_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC503_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC504_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC505_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1
0445_QC506_251017	**17 Oct 2025**	**1282063**	**Trip_B**	<0.01	<0.01	<0.05	<0.01	<0.01	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.01	<0.05	<0.1

Appendix E Equipment Calibration Records

©JBS&G Australia Pty Ltd

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

CERTIFICATE OF CALIBRATION

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

Certificate Number : 25F105802-R-3-20251009
Calibration Date: 9/10/2025
Next Calibration Due: 23/10/2025

Customer: Air-Met Scientific (National Rental)
Address: 65 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: EP024662
Unit Under Test: YSI ProQuatro Water Quality Meter
Serial No: 25F105802
Service Order No: CAL06544

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number
MECOND	Conductivity (2760 us/cm @ 25 deg)	17/04/2026	
MEPH7	PH7 (pH = 7.00 +/- 0.02 @ 25 deg)	17/02/2026	
MEPH4	pH4.01 @ 25 degrees celsius	17/02/2026	
MEORP	ORP Solution (234 @ 20 deg)	30/08/2026	
MEDO	DO Powder (Sodium Sulphite Solution)	5/08/2026	

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		
TEMPERATURE	°C	20.8	20.8	20.8	Pass	
CONDUCTIVITY	µS/cm	2760	2781	2760	Pass	
PH4	pH	4	4.13	4	Pass	
PH7	pH	7	7.1	7	Pass	
ORP	mV	235.76	237	235.76	Pass	

Certified System
Quality
ISO 9001
SAI GLOBAL

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

CERTIFICATE OF CALIBRATION

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

Certificate Number : 18L102025-R-5-20251008
Calibration Date: 8/10/2025
Next Calibration Due: 8/11/2025

Customer: Air-Met Scientific (National Rental)
Address: 65 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: EP020306
Unit Under Test: YSI ProPlus Water Quality Meter
Serial No: 18L102025
Service Order No: CAL06513

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number
MECOND	Conductivity (2760 us/cm @ 25 deg)	17/04/2026	
MEPH7	PH7 (pH = 7.00 +/- 0.02 @ 25 deg)	17/02/2026	
MEPH4	pH4.01 @ 25 degrees celsius	17/02/2026	
MEORP	ORP Solution (234 @ 20 deg)	30/08/2026	
MEDO	DO Powder (Sodium Sulphite Solution)	5/08/2026	

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		
TEMPERATURE	°C	18.1	18.1	18.1	Pass	
CONDUCTIVITY	µS/cm	2760	2832	2760	Pass	
PH4	pH	4	4.05	4	Pass	
PH7	pH	7	7.09	7	Pass	
ORP	mV	238.18	221.9	238.18	Fail	

Certified System
Quality
ISO 9001
SAI GLOBAL

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

CERTIFICATE OF CALIBRATION

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

Certificate Number :
Calibration Date: 9/10/2025
Next Calibration Due: 9/04/2026

Customer: Air-Met Scientific (National Rental)
Address: 65 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: EP019408
Unit Under Test: Geotech Interface Meter 60m
Serial No: 3965
Service Order No: CAL06581

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number

Results :

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

Notes :

Calibrated By: [redacted]

Signed: *SHIRLY.SHEN*

Certified System
Quality
ISO 9001
SAI GLOBAL

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

CERTIFICATE OF CALIBRATION

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

Certificate Number :
Calibration Date: 9/10/2025
Next Calibration Due: 9/04/2026

Customer: Air-Met Scientific (National Rental)
Address: 7 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: P01-9396
Unit Under Test: Flotech Interface Meter 60m
Serial No: 3956
Service Order No: CAL06534

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number

Results :

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

Notes :

Calibrated By: [redacted]

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

CERTIFICATE OF CALIBRATION

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

Certificate Number : 24L120464-R-5-20251008
Calibration Date: 8/10/2025
Next Calibration Due: 8/11/2025

Customer: Air-Met Scientific (National Rental)
Address: 65 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: EP022181
Unit Under Test: YSI ProQuatro Water Quality Meter
Serial No: 24L120464
Service Order No: CAL06504

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number
MECOND	Conductivity (2760 us/cm @ 25 deg)	17/04/2026	
MEPH7	PH7 (pH = 7.00 +/- 0.02 @ 25 deg)	17/02/2026	
MEPH4	pH4.01 @ 25 degrees celsius	17/02/2026	
MEORP	ORP Solution (234 @ 20 deg)	30/08/2026	
MEDO	DO Powder (Sodium Sulphite Solution)	5/08/2026	

Results :

Sensor	Units	Applied Value	Results		Pass/ Fail	Comments
			As Found	As Left		
TEMPERATURE	°C	19.8	19.8	19.8	Pass	
CONDUCTIVITY	µS/cm	2760	2857	2760	Pass	
PH4	pH	4	4.47	4	Pass	
PH7	pH	7	7.36	7	Pass	
ORP	mV	234.44	192.1	234.44	Pass	

Certified System
Quality
ISO 9001
SAI GLOBAL

DISSOLVED OXYGEN	%	0	0.5	0	Pass	

Notes :

Calibrated By: [redacted]

Certified System
Quality
ISO 9001
SAI GLOBAL

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

CERTIFICATE OF CALIBRATION

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

Certificate Number : 3966-R-2-20251009
Calibration Date: 9/10/2025
Next Calibration Due: 9/04/2026

Customer: Air-Met Scientific (National Rental)
Address: 65 Moray Street , , SOUTH MELBOURNE , 3205
Equipment No: EP018345
Unit Under Test: Interface Meter
Serial No: 3966
Service Order No: CAL06578

Test Results

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

Reference Equipment :

Equipment ID	Description	Expiry Date	Reference Certificate Number

Results :

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

Notes :

Calibrated By: [redacted]

Certified System
Quality
ISO 9001
SAI GLOBAL

JBS&G

Field Equipment Calibration and Decontamination

PROJECT NAME: Bandiana OMP October 2025	PROJECT NO: 61395.
FIELDWORK DATES: 13/10 –	SAMPLERS: [redacted]
TYPE OF INVESTIGATION: GW / SW	PROJECT MANAG[redacted]

CALIBRATION SUMMARY

EQUIPMENT: YSI
CALIBRATION STANDARD:

	DATE	TIME	pH Reading	Temp Reading (°C)	DO Reading (mg/L)	SPC Reading (µs/Cm)	ORP Reading (mV)	COMMENTS
18L102025 –	13/10/25	12:20	4-3.97 7-7.00	12.2	–	2097	—	YSI ORP reading would drop to negative after calibration could not get to stabilise used different YSI.
25F105806	13/10/25	12:40	4-4.04 -7.00	12.5	–	2107	249.6	
	14/10/25	1:16	4.04 6.98	15.0	~~245~~	2217.	245	within parameters.
	15/10/25	8:50	4:04 6.99	13.8	100% zero	2093	246.8	calibrated. within parameters
	16/10/25	7:45	4.05 6.98	14.4	–	2290	242.2.	within parameters.
	16/10/25	10:45			100%			within parameters.
	17/10/25	7:45	4.04 7.01	19.0	100%	2438	237.65	
	10:00	Bumptested	within parameters.					

DECONTAMINATION SUMMARY

EQUIPMENT:				
1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS				

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Field Equipment Calibration and Decontamination

PROJECT NAME: Bandiana OMP October 2025	PROJECT NO: 63195
FIELDWORK DATES: 13-17/10	SAMPLERS: [redacted]
TYPE OF INVESTIGATION: GW / SW	PROJECT MA[redacted]

CALIBRATION SUMMARY

EQUIPMENT: YSI
CALIBRATION STANDARD:

DATE	TIME	pH Reading	Temp Reading (°C)	DO Reading (mg/L)	SPC Reading (µs/Cm)	ORP Reading (mV)	COMMENTS
15-10	7:30	4→7	15.7	N/A	2246	243.3	PASS
16-10	7:00	4→7	15.6	N/A	2234	245.1	PASS
17-10	7:30	4→7	15.5	N/A	2240	244.2	PASS

DECONTAMINATION SUMMARY

EQUIPMENT:				
1	Was the equipment decontaminated appropriately prior to sampling at each location?	Y	N	NA
3	Was the equipment contaminated with grease, tar or similar material?	Y	N	NA
	If so, was the equipment steam cleaned or rinsed with pesticide-grade acetone:hexane?	Y	N	NA
4	Was phosphate-free detergent used to wash the equipment?	Y	N	NA
5	Was the equipment rinsed with clean water?	Y	N	NA
6	Was the equipment then rinsed with deionised water?	Y	N	NA
7	Were all sample containers cleaned and acid or solvent washed prior to sample collection?	Y	N	NA
WERE ANY ADDITIONAL DECONTAMINATION MEASURES REQUIRED? PROVIDE DETAILS				

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Appendix F Laboratory Certificates and Chain of Custody

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#1282063

LS 20/10

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Melbourne
Level 19, 31 Queen Street, Melbourne VIC 3000
T: 03 9642 0599
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.: 1
SITE/PROJECT NAME: Bandiana OMP October 2025	COC Reference #: NA	SAMPLER: [redacted]
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 03 9642 0599
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 61395	QUOTE #:	

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Courier
NAME :	NAME :	NAME :	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME:	OF:	TIME:	
NAME:	DATE:	NAME :	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY

COOLER SEAL

Yes ..... No .....

Broken ..... Intact .....

COOLER TEMP: deg.C

Please forward results and Invoice to: [redacted]

Please use PFAS suite attached for analysis

ANALYSIS TO COME VIA EMAIL :

ANALYSIS REQUIRED

*Container Type and Preservative Codes:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA												
SAMPLE ID	MATRIX	DATE	TYPE	TYPE & PRESERVATIVE	NO.	pH field	HOLD	PFAS Full	PFAS Full - Trace							
0445_MW302_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW303_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW313_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW357_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW360_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW361_251016	Water	16/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW411_251015	Water	15/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW412_251015	Water	15/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW413_251015	Water	15/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW414_251015	Water	15/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW415_251015	Water	15/10/2025	Normal	1 X 500ML PFAS				X								
0445_MW447_251017	Water	17/10/2025	Normal	1 X 500ML PFAS				X								
0445_OTH19_251013	Water	13/10/2025	Normal	1 X 500ML PFAS					X							
0445_QC101_251015	Water	15/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC101_251016	Water	16/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC101_251017	Water	17/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC101_251013	Water	13/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC102_251015	Water	15/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC102_251016	Water	16/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC102_251017	Water	17/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC103_251015	Water	15/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC103_251016	Water	16/10/2025	Duplicate	1 X 500ML PFAS				X								
0445_QC103_251017	Water	17/10/2025	Duplicate	1 X 500ML PFAS			X									
0445_QC104_251015	Water	15/10/2025	Duplicate	1 X 500ML PFAS			X									
0445_QC104_251016	Water	16/10/2025	Duplicate	1 X 500ML PFAS			X									
0445_QC201_251015	Water	15/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC201_251016	Water	16/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC201_251017	Water	17/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC202_251013	Water	13/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC202_251015	Water	15/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC202_251016	Water	16/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC202_251017	Water	17/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS
0445_QC203_251015	Water	15/10/2025	Split	2 X 25ML PFAS			X									FWD to ALS

0445_QC203_251016		Water	16/10/2025	Split	2 X 25ML PFAS			X											FWD to ALS
0445_QC203_251017		Water	17/10/2025	Split	2 X 25ML PFAS			X											FWD to ALS
0445_QC204_251015		Water	15/10/2025	Split	2 X 25ML PFAS			X											FWD to ALS
0445_QC204_251016		Water	16/10/2025	Split	2 X 25ML PFAS			X											FWD to ALS
0445_QC301_251013		Water	13/10/2025	RB	1 X 125ML PFAS				X										
0445_QC301_251014		Water	15/10/2025	RB	1 X 125ML PFAS				X										
0445_QC301_251015		Water	15/10/2025	RB	1 X 125ML PFAS				X										
0445_QC301_251016		Water	16/10/2025	RB	1 X 125ML PFAS				X										
0445_QC301_251017		Water	17/10/2025	RB	1 X 125ML PFAS				X										
0445_QC302_251014		Water	14/10/2025	RB	1 X 125ML PFAS				X										
0445_QC302_251017		Water	17/10/2025	RB	1 X 125ML PFAS				X										
0445_QC401_251013		Water	13/10/2025	FB	1 X 125ML PFAS				X										
0445_QC401_251014		Water	14/10/2025	FB	1 X 125ML PFAS				X										
0445_QC401_251015		Water	15/10/2025	FB	1 X 125ML PFAS				X										
0445_QC401_251016		Water	16/10/2025	FB	1 X 125ML PFAS				X										
0445_QC401_251017		Water	17/10/2025	FB	1 X 125ML PFAS				X										
0445_QC502_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_QC501_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_QC503_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_QC504_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_QC505_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_QC506_251017		Water	17/10/2025	TB	1 X 500ML PFAS				X										
0445_SW390_131013		Water	17/10/2025	Normal	1 X 500ML PFAS					X									
0445_SW393_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW395_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW396_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW397_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW398_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW400_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW401_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW403_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW404_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW405_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW409_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW412_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW416_251013		Water	13/10/2025	Normal	1 X 500ML PFAS					X									
0445_SW427_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW430_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW431_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW432_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW434_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW462_251013		Water	13/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW470_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW471_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445_SW487_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW009_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW012_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW016_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW018_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW020_251014		Water	14/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW029_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW034_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW035_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW042_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW043_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW046_D_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW046_I_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW052_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW319_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW350_D_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW350_S_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										
0445E_MW351_251016		Water	16/10/2025	Normal	1 X 500ML PFAS					X									
0445E_MW352_251016		Water	16/10/2025	Normal	1 X 500ML PFAS					X									
0445E_MW354_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X										

0445E_MW403_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445E_MW404_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445E_SW382_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445E_SW387_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X											
0445E_SW388_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW342_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW343_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW344_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW345_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW346_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445N_MW356_251016		Water	16/10/2025	Normal	1 X 500ML PFAS					X										
0445N_SW374_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X											
0445N_SW375_251015		Water	15/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW051_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW056_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW304_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW305_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW307_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW311_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW312_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW315_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW317_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW321_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW323_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW329_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_MW416_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW323_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW326_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW338_251016		Water	16/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW346_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW349_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW355_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
0445S_SW456_251017		Water	17/10/2025	Normal	1 X 500ML PFAS				X											
								15	109	6	0	0	0	0	0	0	0	0	0	

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Melbourne
Level 19, 31 Queen Street, Melbourne VIC 3000
T: 03 9642 0599
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO.: 1
SITE/PROJECT NAME:Bandiana OMP October 2025	COC Reference #: NA	SAMPLERS [redacted]
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 03 9642 0599
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 61395	**QUOTE #:**	

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Courier
NAME :	NAME :	NAME :	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME:	OF:	TIME:	
NAME:	DATE:	NAME :	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY

COOLER SEAL

Yes ..... No .....

Broken ..... Intact .....

COOLER TEMP: deg.C

[redacted]

Please use PFAS suite attached for analysis

ANALYSIS TO COME VIA EMAIL :

ANALYSIS REQUIRED

***Container Type and Preservative Codes:**
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST =Sodium Thiosuphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA														
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field	HOLD	PFAS Full	PFAS Full - Trace									
0445_QC201_251015	Water	15/10/2025		2 X 25ML PFAS				X										
0445_QC201_251016	Water	16/10/2025		2 X 25ML PFAS				X										
0445_QC201_251017	Water	17/10/2025		2 X 25ML PFAS				X										
0445_QC201_251013	Water	13/10/2025		2 X 25ML PFAS				X										
0445_QC202_251015	Water	15/10/2025		2 X 25ML PFAS				X										
0445_QC202_251016	Water	16/10/2025		2 X 25ML PFAS				X										
0445_QC202_251017	Water	17/10/2025		2 X 25ML PFAS				X										
0445_QC203_251015	Water	15/10/2025		2 X 25ML PFAS				X										
0445_QC203_251016	Water	16/10/2025		2 X 25ML PFAS				X										
0445_QC203_251017	Water	17/10/2025		2 X 25ML PFAS			X											
0445_QC204_251015	Water	15/10/2025		2 X 25ML PFAS			X											
0445_QC204_251016	Water	16/10/2025		2 X 25ML PFAS			X											
							3	9	0	0	0	0	0	0	0	0	0	0

CHAIN OF CUSTODY DOCUMENTATION

JBS&G (Australia) Pty Ltd

Melbourne
Level 19, 31 Queen Street, Melbourne VIC 3000
T: 03 9542 0599
ACN 100 220 479 · ABN 62 100 220 479

JBS&G

CLIENT: JBS&G	LABORATORY: Eurofins	LABORATORY BATCH NO: 1
SITE/PROJECT NAME: Bandiana OMP October 2025	COC Reference #: NA	SAMPLERS: [redacted]
SEND REPORT TO: JBS&G Australia Pty Ltd	SEND INVOICE TO: JBS&G Australia Pty Ltd	PHONE: 03 9542 0599
DATA NEEDED BY: standard	REPORT NEEDED BY: standard	REPORT FORMAT: HARD: NO FAX: NO E-MAIL: YES
SITE/PROJECT NUMBER: 61395	QUOTE #:	

RELINQUISHED BY:		RECEIVED BY		METHOD OF SHIPMENT: Courier
NAME:	NAME:	NAME:	DATE:	CONSIGNMENT NOTE NO.
OF: JBS&G (Australia) Pty Ltd	TIME:	OF:	TIME:	
NAME:	DATE:	NAME:	DATE:	TRANSPORT CO. NAME.
OF:	TIME:	OF:	TIME:	

P.O. NO.:

COMMENTS/SPECIAL HANDLING/STORAGE OR DISPOSAL:

FOR LAB USE ONLY

COOLER SEAL

Yes ..... No .....

Broken ..... Intact .....

COOLER TEMP: deg.C

Please forward results and invoice to: [redacted]

ANALYSIS TO COME VIA EMAIL.

ANALYSIS REQUIRED

*Container Type and Preservative Codes:
P = Neutral Plastic; N = Nitric Acid Preserved; C = Sodium Hydroxide Preserved; J = Solvent Washed Jar; S = Solvent Washed Glass Bottle; VC = HCL Preserved Vial; PC = HCL Preserved Plastic; PS = Sulfuric Acid Preserved Plastic; BS = Sulfuric Acid Preserved Glass Bottle; Z = Zinc Acetate Preserved Bottle; ST = Sodium Thiosulphate Preserved Plastic, E = EDTA Preserved Bottles; ST = Sterile Bottle; O = Other.

SAMPLE DATA				CONTAINER DATA			HOLD	
SAMPLE ID	MATRIX	DATE	TIME	TYPE & PRESERVATIVE	NO.	pH field		
0445_MW302_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW303_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW313_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW357_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW360_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW361_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_MW411_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_MW412_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_MW413_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_MW414_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_MW415_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_MW447_251017	Water	17/10/2025		1 X 500ML PFAS			X	
0445_OTH19_251013	Water	13/10/2025		1 X 500ML PFAS			X	
0445_QC101_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_QC101_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_QC101_251017	Water	17/10/2025		1 X 500ML PFAS			X	
0445_QC102_251013	Water	13/10/2025		1 X 500ML PFAS			X	
0445_QC102_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_QC102_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_QC102_251017	Water	17/10/2025		1 X 500ML PFAS			X	
0445_QC103_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_QC103_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_QC103_251017	Water	17/10/2025		1 X 500ML PFAS			X	
0445_QC104_251015	Water	15/10/2025		1 X 500ML PFAS			X	
0445_QC104_251016	Water	16/10/2025		1 X 500ML PFAS			X	
0445_QC201_251015	Water	15/10/2025		2 X 25ML PFAS			X	FWD to ALS
0445_QC201_251016	Water	16/10/2025		2 X 25ML PFAS			X	FWD to ALS
0445_QC201_251017	Water	17/10/2025		2 X 25ML PFAS			X	FWD to ALS

DATE 20/10
TIME: 5.24
COURIER
TEMPERATURE 8°
ATTACHED TO SEND NO

0445_QC202_251013	Water	13/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC202_251015	Water	15/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC202_251016	Water	16/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC202_251017	Water	17/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC203_251015	Water	15/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC203_251016	Water	16/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC203_251017	Water	17/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC204_251015	Water	15/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC204_251016	Water	16/10/2025		2 X 25ML PFAS			X											FWD to ALS
0445_QC301_251013	Water	13/10/2025		1 X 125ML PFAS			X											
0445_QC301_251015	Water	15/10/2025		1 X 125ML PFAS			X											
0445_QC301_251015	Water	15/10/2025		1 X 125ML PFAS			X											
0445_QC301_251016	Water	16/10/2025		1 X 125ML PFAS			X											
0445_QC301_251017	Water	17/10/2025		1 X 125ML PFAS			X											
0445_QC302_251014	Water	14/10/2025		1 X 125ML PFAS			X											
0445_QC302_251017	Water	17/10/2025		1 X 125ML PFAS			X											
0445_QC401_251013	Water	13/10/2025		1 X 125ML PFAS			X											
0445_QC401_251013	Water	13/10/2025		1 X 125ML PFAS			X											
0445_QC401_251014	Water	14/10/2025		1 X 125ML PFAS			X											
0445_QC401_251015	Water	15/10/2025		1 X 125ML PFAS			X											
0445_QC401_251016	Water	16/10/2025		1 X 125ML PFAS			X											
0445_QC401_251017	Water	17/10/2025		1 X 125ML PFAS			X											
0445_QC500_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_QC501_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_QC503_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_QC504_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_QC505_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_QC506_251017	Water	17/10/2025		2 x VOC Vial			X											
0445_SW390_131013	Water	17/10/2025		1 X 500ML PFAS			X											
0445_SW393_251017	Water	17/10/2025		1 X 500ML PFAS			X											
0445_SW395_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW396_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW397_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW398_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW400_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW401_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW403_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW404_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW405_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW409_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW412_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW416_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW427_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW430_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW431_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW432_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW434_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW462_251013	Water	13/10/2025		1 X 500ML PFAS			X											
0445_SW470_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW471_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445_SW487_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445E_MW009_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445E_MW012_251016	Water	16/10/2025		1 X 500ML PFAS			X											
0445E_MW016_251015	Water	15/10/2025		1 X 500ML PFAS			X											
0445E_MW018_251016	Water	16/10/2025		1 X 500ML PFAS			X											
0445E_MW020_251014	Water	14/10/2025		1 X 500ML PFAS			X											
0445E_MW029_251016	Water	16/10/2025		1 X 500ML PFAS			X											
0445E_MW034_251016	Water	16/10/2025		1 X 500ML PFAS			X											
0445E_MW035_251015	Water	15/10/2025		1 X 500ML PFAS			X											

0445E_MW042_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445E_MW043_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445E_MW046_D_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW046_I_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW052_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW319_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW350_D_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW350_S_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW351_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW352_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW354_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW403_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_MW404_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_SW382_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445E_SW387_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445E_SW388_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445N_MW342_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445N_MW343_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445N_MW344_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445N_MW345_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445N_MW346_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445N_MW356_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445N_SW374_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445N_SW375_251015	Water	15/10/2025		1 X 500ML PFAS			X												
0445S_MW051_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445S_MW056_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445S_MW304_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW305_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW307_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW311_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW312_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW315_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW317_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW321_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445S_MW323_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW329_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_MW416_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445S_SW323_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_SW326_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_SW338_251016	Water	16/10/2025		1 X 500ML PFAS			X												
0445S_SW346_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_SW349_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_SW355_251017	Water	17/10/2025		1 X 500ML PFAS			X												
0445S_SW456_251017	Water	17/10/2025		1 X 500ML PFAS			X												
							131	0	0	0	0	0	0	0	0	0	0	0	

Outlook

RE: Eurofins Sample Receipt Advice - Report 1282063 : Site Bandiana OMP October 2025 (61395)

From [redacted]
Date Tue 21/10/25 6:40 AM
To [redacted]
Cc [redacted]

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.

Morning [redacted],

Sample location SW456 does not exist, so apologies, I believe this is a typo on the COC.

The sample receipt indicates there was no evidence to chill, is this correct? I believe there was ice in the eskies over the weekend.

Thanks
[redacted]

[redacted]

From: [redacted]>
Sent: Monday, 20 October 2025 10:28 PM
To: [redacted]>
Cc: [redacted]
Subject: Eurofins Sample Receipt Advice - Report 1282063 : Site Bandiana OMP October 2025 (61395)

[EXTERNAL EMAIL] Stop and think before opening attachments, clicking or responding.

Dear Valued Client,

Sample 0445S_SW456_251017 not received.

Extra samples 0445_QC302_251015, 0445_QC302_251016 received, logged for hold.

Samples
0445_QC201_251015,
0445_QC201_251016,
0445_QC201_251017,
0445_QC202_251013,
0445_QC202_251015,
0445_QC202_251016,
0445_QC202_251017,
0445_QC203_251015,

0445_QC203_251016,
0445_QC203_251017,
0445_QC204_251015,
0445_QC204_251016,
sent to ALS.

Please find attached a Sample Receipt Advice (SRA), a Summary Sheet and a scanned copy of your Chain-of-Custody (COC). It is important that you check this documentation to ensure that the details are correct such as the Client Job Number, Turn Around Time, any comments in the Notes section and sample numbers as well as the requested analysis. If there are any irregularities then please contact your Eurofins Analytical Services Manager as soon as possible to make certain that they get changed.

Regards

[redacted]

Eurofins Environment Testing Australia P/L
6 Monterey Road
Dandenong South 3175
AUSTRALIA
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www.eurofins.com.au EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle	Perth
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive	46-48 Banksia Road
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West	Welshpool
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304	WA 6106
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448	+61 8 6253 4444
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 2377
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079	Site# 2370 & 2554

Sample Receipt Advice

Company name:	JBS & G Australia (VIC) P/L
Contact name:	[redacted]
Project name:	Bandiana OMP October 2025
Project ID:	61395
Turnaround time:	5 Day
Date/Time received	Oct 20, 2025 5:29 PM
Eurofins reference	1282063

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 : 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

Sample 0445S_SW456_251017 not received. Extra samples 0445_QC302_251015, 0445_QC302_251016 received, logged for hold. Samples 0445_QC201_251015, 0445_QC201_251016, 0445_QC201_251017, 0445_QC202_251013, 0445_QC202_251015, 0445_QC202_251016, 0445_QC202_251017, 0445_QC203_251015, 0445_QC203_251016, 0445_QC203_251017, 0445_QC204_251015, 0445_QC204_251016 sent to ALS.

Contact

If you have any questions with respect to these samples, please contact your Analytical Services Manager:

Harry Bacalis on phone : +61 3 8564 5064 or by email: [redacted]

Results will be delivered electronically via email to [redacted].

Note: A copy of these results will also be delivered to the general JBS & G Australia (VIC) P/L email address.

Global Leader - Results you can trust

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Canberra	Brisbane	Newcastle
6 Monterey Road	19/8 Lewalan Street	179 Magowar Road	Unit 1,2 Dacre Street	1/21 Smallwood Place	1/2 Frost Drive
Dandenong South	Grovedale	Girraween	Mitchell	Murarrie	Mayfield West
VIC 3175	VIC 3216	NSW 2145	ACT 2911	QLD 4172	NSW 2304
+61 3 8564 5000	+61 3 8564 5000	+61 2 9900 8400	+61 2 6113 8091	+61 7 3902 4600	+61 2 4968 8448
NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
Site# 1254	Site# 25403	Site# 18217	Site# 25466	Site# 20794 & 2780	Site# 25079

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road
Welshpool
WA 6106
+61 8 6253 4444
NATA# 2377
Site# 2370 & 2554

Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
Norwood
SA 5067

Project Name: Bandiana OMP October 2025
Project ID: 61395

Order No.:
Report #: 1282063
Phone: 03 9642 0599
Fax:

Received: Oct 20, 2025 5:29 PM
Due: Oct 27, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
External Laboratory								X		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	0445_QC201_251015	Oct 15, 2025		Water	M25-Oc0059058			X		
2	0445_QC201_251016	Oct 16, 2025		Water	M25-Oc0059059			X		
3	0445_QC201_251017	Oct 17, 2025		Water	M25-Oc0059060			X		
4	0445_QC202_251013	Oct 13, 2025		Water	M25-Oc0059061			X		
5	0445_QC202_251015	Oct 15, 2025		Water	M25-Oc0059062			X		
6	0445_QC202_251016	Oct 16, 2025		Water	M25-Oc0059063			X		
7	0445_QC202_251017	Oct 17, 2025		Water	M25-Oc0059064			X		
8	0445_QC203_251015	Oct 15, 2025		Water	M25-Oc0059065			X		
9	0445_QC203_	Oct 16, 2025		Water	M25-Oc0059066			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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Company Name: JBS & G Australia (VIC) P/L
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Project Name: Bandiana OMP October 2025
Project ID: 61395

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Fax:

Received: Oct 20, 2025 5:29 PM
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Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

	Sample Detail					CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
	251016									
10	0445_QC203_251017	Oct 17, 2025		Water	M25-Oc0059067			X		
11	0445_QC204_251015	Oct 15, 2025		Water	M25-Oc0059068			X		
12	0445_QC204_251016	Oct 16, 2025		Water	M25-Oc0059069			X		
13	0445_MW302_251016	Oct 16, 2025		Water	M25-Oc0059070				X	
14	0445_MW303_251016	Oct 16, 2025		Water	M25-Oc0059071				X	
15	0445_MW313_251016	Oct 16, 2025		Water	M25-Oc0059072				X	
16	0445_MW357_251016	Oct 16, 2025		Water	M25-Oc0059073				X	
17	0445_MW360_251016	Oct 16, 2025		Water	M25-Oc0059074				X	
18	0445_MW361_251016	Oct 16, 2025		Water	M25-Oc0059075				X	
19	0445_MW447	Oct 17, 2025		Water	M25-Oc0059081				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
19	0445_MW447_251017	Oct 17, 2025		Water	M25-Oc0059081					
20	0445_QC101_251015	Oct 15, 2025		Water	M25-Oc0059083				X	
21	0445_QC101_251016	Oct 16, 2025		Water	M25-Oc0059084				X	
22	0445_QC101_251017	Oct 17, 2025		Water	M25-Oc0059085				X	
23	0445_QC101_251013	Oct 13, 2025		Water	M25-Oc0059086				X	
24	0445_QC102_251015	Oct 15, 2025		Water	M25-Oc0059087				X	
25	0445_QC102_251016	Oct 16, 2025		Water	M25-Oc0059088				X	
26	0445_QC102_251017	Oct 17, 2025		Water	M25-Oc0059089				X	
27	0445_QC103_251015	Oct 15, 2025		Water	M25-Oc0059090				X	
28	0445_QC103_251016	Oct 16, 2025		Water	M25-Oc0059091				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
29	0445_QC301_251013	Oct 13, 2025		Water	M25-Oc0059092				X	
30	0445_QC301_251014	Oct 15, 2025		Water	M25-Oc0059093				X	
31	0445_QC301_251015	Oct 15, 2025		Water	M25-Oc0059094				X	
32	0445_QC301_251016	Oct 16, 2025		Water	M25-Oc0059095				X	
33	0445_QC301_251017	Oct 17, 2025		Water	M25-Oc0059096				X	
34	0445_QC302_251014	Oct 14, 2025		Water	M25-Oc0059097				X	
35	0445_QC302_251017	Oct 17, 2025		Water	M25-Oc0059098				X	
36	0445_QC401_251013	Oct 13, 2025		Water	M25-Oc0059099				X	
37	0445_QC401_251014	Oct 14, 2025		Water	M25-Oc0059100				X	
38	0445_QC401_251015	Oct 15, 2025		Water	M25-Oc0059101				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
39	0445_QC401_251016	Oct 16, 2025		Water	M25-Oc0059102				X	
40	0445_QC401_251017	Oct 17, 2025		Water	M25-Oc0059103				X	
41	0445_QC502_251017	Oct 17, 2025		Water	M25-Oc0059104				X	
42	0445_QC501_251017	Oct 17, 2025		Water	M25-Oc0059105				X	
43	0445_QC503_251017	Oct 17, 2025		Water	M25-Oc0059106				X	
44	0445_QC504_251017	Oct 17, 2025		Water	M25-Oc0059107				X	
45	0445_QC505_251017	Oct 17, 2025		Water	M25-Oc0059108				X	
46	0445_QC506_251017	Oct 17, 2025		Water	M25-Oc0059109				X	
47	0445_SW390_131013	Oct 17, 2025		Water	M25-Oc0059110					X
48	0445_SW393_251017	Oct 17, 2025		Water	M25-Oc0059111				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
49	0445_SW395_251015	Oct 15, 2025		Water	M25-Oc0059112				X	
50	0445_SW398_251015	Oct 15, 2025		Water	M25-Oc0059115				X	
51	0445_SW403_251013	Oct 13, 2025		Water	M25-Oc0059118				X	
52	0445_SW404_251013	Oct 13, 2025		Water	M25-Oc0059119				X	
53	0445_SW405_251013	Oct 13, 2025		Water	M25-Oc0059120				X	
54	0445_SW409_251013	Oct 13, 2025		Water	M25-Oc0059121				X	
55	0445_SW412_251013	Oct 13, 2025		Water	M25-Oc0059122				X	
56	0445_SW416_251013	Oct 13, 2025		Water	M25-Oc0059123					X
57	0445_SW427_251015	Oct 15, 2025		Water	M25-Oc0059124				X	
58	0445_SW430_251015	Oct 15, 2025		Water	M25-Oc0059125				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
59	0445_SW431_251015	Oct 15, 2025		Water	M25-Oc0059126				X	
60	0445_SW432_251015	Oct 15, 2025		Water	M25-Oc0059127				X	
61	0445_SW434_251015	Oct 15, 2025		Water	M25-Oc0059128				X	
62	0445_SW462_251013	Oct 13, 2025		Water	M25-Oc0059129				X	
63	0445_SW470_251015	Oct 15, 2025		Water	M25-Oc0059130				X	
64	0445_SW471_251015	Oct 15, 2025		Water	M25-Oc0059131				X	
65	0445E_MW009_251015	Oct 15, 2025		Water	M25-Oc0059133				X	
66	0445E_MW012_251016	Oct 16, 2025		Water	M25-Oc0059134				X	
67	0445E_MW016_251015	Oct 15, 2025		Water	M25-Oc0059135				X	
68	0445E_MW018_251016	Oct 16, 2025		Water	M25-Oc0059136				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
69	0445E_MW020_251014	Oct 14, 2025		Water	M25-Oc0059137				X	
70	0445E_MW029_251016	Oct 16, 2025		Water	M25-Oc0059138				X	
71	0445E_MW034_251016	Oct 16, 2025		Water	M25-Oc0059139				X	
72	0445E_MW035_251015	Oct 15, 2025		Water	M25-Oc0059140				X	
73	0445E_MW042_251015	Oct 15, 2025		Water	M25-Oc0059141				X	
74	0445E_MW043_251015	Oct 15, 2025		Water	M25-Oc0059142				X	
75	0445E_MW046_D_251016	Oct 16, 2025		Water	M25-Oc0059143				X	
76	0445E_MW046_I_251016	Oct 16, 2025		Water	M25-Oc0059144				X	
77	0445E_MW052_251016	Oct 16, 2025		Water	M25-Oc0059145				X	
78	0445E_MW319_251016	Oct 16, 2025		Water	M25-Oc0059146				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
79	0445E_MW350_D_251016	Oct 16, 2025		Water	M25-Oc0059147				X	
80	0445E_MW350_S_251016	Oct 16, 2025		Water	M25-Oc0059148				X	
81	0445E_MW351_251016	Oct 16, 2025		Water	M25-Oc0059149					X
82	0445E_MW352_251016	Oct 16, 2025		Water	M25-Oc0059150					X
83	0445E_MW354_251016	Oct 16, 2025		Water	M25-Oc0059151				X	
84	0445E_MW403_251016	Oct 16, 2025		Water	M25-Oc0059152				X	
85	0445E_MW404_251016	Oct 16, 2025		Water	M25-Oc0059153				X	
86	0445E_SW382_251016	Oct 16, 2025		Water	M25-Oc0059154				X	
87	0445E_SW387_251015	Oct 15, 2025		Water	M25-Oc0059155				X	
88	0445E_SW388_251015	Oct 15, 2025		Water	M25-Oc0059156				X	

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Company Name: JBS & G Australia (VIC) P/L
Address: PO Box 3166
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Project Name: Bandiana OMP October 2025
Project ID: 61395

Order No.:
Report #: 1282063
Phone: 03 9642 0599
Fax:

Received: Oct 20, 2025 5:29 PM
Due: Oct 27, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
89	0445N_MW342_251016	Oct 16, 2025		Water	M25-Oc0059157				X	
90	0445N_MW343_251015	Oct 15, 2025		Water	M25-Oc0059158				X	
91	0445N_MW344_251016	Oct 16, 2025		Water	M25-Oc0059159				X	
92	0445N_MW345_251016	Oct 16, 2025		Water	M25-Oc0059160				X	
93	0445N_MW346_251016	Oct 16, 2025		Water	M25-Oc0059161				X	
94	0445N_MW356_251016	Oct 16, 2025		Water	M25-Oc0059162					X
95	0445N_SW374_251015	Oct 15, 2025		Water	M25-Oc0059163				X	
96	0445N_SW375_251015	Oct 15, 2025		Water	M25-Oc0059164				X	
97	0445S_MW051_251016	Oct 16, 2025		Water	M25-Oc0059165				X	
98	0445S_MW406_251016	Oct 16, 2025		Water	M25-Oc0059166				X	

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Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
99	0445S_MW304_251017	Oct 17, 2025		Water	M25-Oc0059167				X	
100	0445S_MW305_251017	Oct 17, 2025		Water	M25-Oc0059168				X	
101	0445S_MW307_251017	Oct 17, 2025		Water	M25-Oc0059169				X	
102	0445S_MW311_251017	Oct 17, 2025		Water	M25-Oc0059170				X	
103	0445S_MW312_251017	Oct 17, 2025		Water	M25-Oc0059171				X	
104	0445S_MW315_251017	Oct 17, 2025		Water	M25-Oc0059172				X	
105	0445S_MW317_251017	Oct 17, 2025		Water	M25-Oc0059173				X	
106	0445S_MW321_251016	Oct 16, 2025		Water	M25-Oc0059174				X	
107	0445S_MW323_251017	Oct 17, 2025		Water	M25-Oc0059175				X	
108	0445S_MW329_251017	Oct 17, 2025		Water	M25-Oc0059176				X	

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Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
109	0445S_MW416_251016	Oct 16, 2025		Water	M25-Oc0059177				X	
110	0445S_SW323_251017	Oct 17, 2025		Water	M25-Oc0059178				X	
111	0445S_SW326_251017	Oct 17, 2025		Water	M25-Oc0059179				X	
112	0445S_SW338_251016	Oct 16, 2025		Water	M25-Oc0059180				X	
113	0445S_SW346_251017	Oct 17, 2025		Water	M25-Oc0059181				X	
114	0445S_SW349_251017	Oct 17, 2025		Water	M25-Oc0059182				X	
115	0445S_SW355_251017	Oct 17, 2025		Water	M25-Oc0059183				X	
116	CANCEL	Oct 17, 2025		Water	M25-Oc0059184	X				
117	0445_QC103_251017	Oct 17, 2025		Water	M25-Oc0059185		X			
118	0445_QC104_251015	Oct 15, 2025		Water	M25-Oc0059186		X			
119	0445_QC104_	Oct 16, 2025		Water	M25-Oc0059187		X			

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Eurofins Analytical Services Manager : [redacted]

Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
119	0445_QC104_251016	Oct 16, 2025		Water	M25-Oc0059187					
120	0445_QC302_251015	Oct 15, 2025		Water	M25-Oc0059188		X			
121	0445_QC302_251016	Oct 16, 2025		Water	M25-Oc0059189		X			
122	CANCEL	Oct 15, 2025		Water	M25-Oc0059190	X				
123	CANCEL	Oct 15, 2025		Water	M25-Oc0059191	X				
124	CANCEL	Oct 15, 2025		Water	M25-Oc0059192	X				
Test Counts						4	5	12	98	5

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Certificate of Analysis

JBS & G Australia (VIC) P/L
PO Box 3166
Norwood
SA 5067

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: [redacted]

Report **1282063-W-V3**
Project name Bandiana OMP October 2025
Project ID 61395
Received Date Oct 20, 2025

Client Sample ID			**0445_MW302_251016**	**0445_MW303_251016**	**0445_MW313_251016**	**0445_MW357_251016**
Sample Matrix			**Water**	**Water**	**Water**	**Water**
Eurofins Sample No.			**M25-Oc0059070**	**M25-Oc0059071**	**M25-Oc0059072**	**M25-Oc0059073**
Date Sampled			**Oct 16, 2025**	**Oct 16, 2025**	**Oct 16, 2025**	**Oct 16, 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	0.02	< 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	%	103	95	91	92
13C5-PFPeA (surr.)	1	%	110	116	95	97
13C5-PFHxA (surr.)	1	%	107	113	93	97
13C4-PFHpA (surr.)	1	%	107	115	95	94
13C8-PFOA (surr.)	1	%	105	114	98	96
13C5-PFNA (surr.)	1	%	115	118	107	99
13C6-PFDA (surr.)	1	%	97	83	91	79
13C2-PFUnDA (surr.)	1	%	96	74	95	80
13C2-PFDoDA (surr.)	1	%	80	56	82	60
13C2-PFTeDA (surr.)	1	%	58	[J-]32	76	[J-]32
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	%	80	98	69	86
D3-N-MeFOSA (surr.)	1	%	105	81	[J-]25	82

Client Sample ID			0445_MW302_251016	0445_MW303_251016	0445_MW313_251016	0445_MW357_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059070	M25-Oc0059071	M25-Oc0059072	M25-Oc0059073
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances						
D5-N-EtFOSA (surr.)	1	%	108	80	[J-]30	92
D7-N-MeFOSE (surr.)	1	%	79	68	62	65
D9-N-EtFOSE (surr.)	1	%	68	58	52	65
D5-N-EtFOSAA (surr.)	1	%	104	87	125	90
D3-N-MeFOSAA (surr.)	1	%	93	76	88	74
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	[N09]0.04
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	[N09]0.03	[N09]0.02
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	104	111	93	90
18O2-PFHxS (surr.)	1	%	107	118	87	93
13C8-PFOS (surr.)	1	%	93	92	82	82
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	%	98	124	113	101
13C2-6:2 FTSA (surr.)	1	%	104	122	108	98
13C2-8:2 FTSA (surr.)	1	%	94	91	126	83
13C2-10:2 FTSA (surr.)	1	%	123	76	127	77
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	0.03	0.06
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	< 0.05	0.06
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			0445_MW360_251016	0445_MW361_251016	0445_MW447_251017	0445_QC101_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059074	M25-Oc0059075	M25-Oc0059081	M25-Oc0059083
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 17, 2025	Oct 15, 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	0.02	< 0.01	0.04
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	0.02	< 0.01	0.19
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	0.01	< 0.01	0.04
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	0.03	< 0.01	0.09
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_MW360_251016	0445_MW361_251016	0445_MW447_251017	0445_QC101_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059074	M25-Oc0059075	M25-Oc0059081	M25-Oc0059083
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 17, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
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	%	65	91	95	92
13C5-PFPeA (surr.)	1	%	89	88	111	102
13C5-PFHxA (surr.)	1	%	89	88	109	98
13C4-PFHpA (surr.)	1	%	92	93	110	101
13C8-PFOA (surr.)	1	%	94	99	107	95
13C5-PFNA (surr.)	1	%	96	97	116	101
13C6-PFDA (surr.)	1	%	86	90	88	68
13C2-PFUnDA (surr.)	1	%	89	91	91	59
13C2-PFDoDA (surr.)	1	%	74	71	67	[J-]45
13C2-PFTeDA (surr.)	1	%	[J-]39	[J-]49	[J-]48	[J-]21
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	%	78	73	107	88
D3-N-MeFOSA (surr.)	1	%	100	102	105	72
D5-N-EtFOSA (surr.)	1	%	99	104	100	65
D7-N-MeFOSE (surr.)	1	%	59	[J-]47	88	69
D9-N-EtFOSE (surr.)	1	%	71	65	68	55
D5-N-EtFOSAA (surr.)	1	%	99	103	102	78
D3-N-MeFOSAA (surr.)	1	%	83	79	87	69
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	0.01	< 0.01	0.13
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	0.04
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	0.01	0.14
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.12	[N09]0.11	[N09]0.09	[N09]1.3
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	0.01	< 0.01	0.08
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.14	[N09]0.27	[N09]0.07	[N09]3.3
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	91	87	109	99
18O2-PFHxS (surr.)	1	%	93	92	108	97
13C8-PFOS (surr.)	1	%	84	83	93	82

Client Sample ID			0445_MW360_251016	0445_MW361_251016	0445_MW447_251017	0445_QC101_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059074	M25-Oc0059075	M25-Oc0059081	M25-Oc0059083
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 17, 2025	Oct 15, 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	< 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	%	90	111	107	89
13C2-6:2 FTSA (surr.)	1	%	100	104	135	94
13C2-8:2 FTSA (surr.)	1	%	83	97	121	71
13C2-10:2 FTSA (surr.)	1	%	96	129	102	62
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.26	0.38	0.16	4.6
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.26	0.47	0.16	5.09
Sum of PFASs (n=30)*	0.1	ug/L	0.3	0.5	0.2	5.4

Client Sample ID			0445_QC101_251016	0445_QC101_251017	0445_QC101_251013	0445_QC102_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059084	M25-Oc0059085	M25-Oc0059086	M25-Oc0059087
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 13, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	5.5	< 0.05	0.18
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	< 0.01	18	< 0.01	0.30
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	44	0.02	1.3
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	7.1	< 0.01	0.19
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	12	< 0.01	0.38
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	0.18	< 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	%	84	85	55	92
13C5-PFPeA (surr.)	1	%	118	61	85	99
13C5-PFHxA (surr.)	1	%	121	74	90	94
13C4-PFHpA (surr.)	1	%	122	66	96	99
13C8-PFOA (surr.)	1	%	124	[J-]50	100	104
13C5-PFNA (surr.)	1	%	134	83	89	107
13C6-PFDA (surr.)	1	%	109	71	67	103
13C2-PFUnDA (surr.)	1	%	118	96	51	110
13C2-PFDoDA (surr.)	1	%	88	79	[J-]33	81
13C2-PFTeDA (surr.)	1	%	[J-]49	53	[J-]22	65

Client Sample ID			0445_QC101_251016	0445_QC101_251017	0445_QC101_251013	0445_QC102_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059084	M25-Oc0059085	M25-Oc0059086	M25-Oc0059087
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 13, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
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	%	108	89	80	84
D3-N-MeFOSA (surr.)	1	%	[J-]19	89	73	93
D5-N-EtFOSA (surr.)	1	%	[J-]19	92	67	91
D7-N-MeFOSE (surr.)	1	%	77	74	[J-]28	60
D9-N-EtFOSE (surr.)	1	%	56	80	[J-]32	75
D5-N-EtFOSAA (surr.)	1	%	124	99	55	100
D3-N-MeFOSAA (surr.)	1	%	105	81	53	93
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	27	0.02	0.66
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	15	< 0.01	0.23
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	25	0.02	0.72
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	[N09]130	[N09]0.14	4.9
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	10	< 0.01	0.34
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.02	[N09]38	[N09]0.26	7.0
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	110	52	89	96
18O2-PFHxS (surr.)	1	%	116	80	93	96
13C8-PFOS (surr.)	1	%	104	79	65	91
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	0.26	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	15	< 0.05	0.17
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	%	159	62	135	88
13C2-6:2 FTSA (surr.)	1	%	160	90	123	95
13C2-8:2 FTSA (surr.)	1	%	153	57	67	81
13C2-10:2 FTSA (surr.)	1	%	155	94	[J-]40	100
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.02	168	0.4	11.9
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	296.6	0.44	15.08
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	350	0.5	16

Client Sample ID			0445_QC102_251016	0445_QC102_251017	0445_QC103_251015	0445_QC103_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059088	M25-Oc0059089	M25-Oc0059090	M25-Oc0059091
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 15, 2025	Oct 16, 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	0.04	< 0.01	< 0.01	0.04
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.22	< 0.01	< 0.01	0.14
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.02	< 0.01	< 0.01	0.02
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.06	< 0.01	< 0.01	0.05
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	%	86	92	172	23
13C5-PFPeA (surr.)	1	%	90	104	183	105
13C5-PFHxA (surr.)	1	%	88	98	173	118
13C4-PFHpA (surr.)	1	%	87	100	173	121
13C8-PFOA (surr.)	1	%	94	105	175	119
13C5-PFNA (surr.)	1	%	93	110	138	112
13C6-PFDA (surr.)	1	%	88	85	84	113
13C2-PFUnDA (surr.)	1	%	91	88	77	100
13C2-PFDoDA (surr.)	1	%	72	68	57	80
13C2-PFTeDA (surr.)	1	%	52	[J-]48	[J-]29	94
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	%	76	89	115	117
D3-N-MeFOSA (surr.)	1	%	87	104	83	134
D5-N-EtFOSA (surr.)	1	%	102	107	81	132
D7-N-MeFOSE (surr.)	1	%	[J-]48	83	72	79
D9-N-EtFOSE (surr.)	1	%	68	74	57	69
D5-N-EtFOSAA (surr.)	1	%	85	95	79	85
D3-N-MeFOSAA (surr.)	1	%	82	84	79	100
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.10	< 0.01	0.02	0.04
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.03	< 0.01	0.01	0.02
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.12	< 0.01	0.02	0.04
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]1.5	< 0.01	[N09]0.14	[N09]0.31
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.07	< 0.01	< 0.01	0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]2.7	0.03	[N09]0.16	[N09]0.96
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_QC102_251016	0445_QC102_251017	0445_QC103_251015	0445_QC103_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059088	M25-Oc0059089	M25-Oc0059090	M25-Oc0059091
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 15, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	91	101	194	107
18O2-PFHxS (surr.)	1	%	91	97	187	105
13C8-PFOS (surr.)	1	%	84	78	105	104
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	< 0.05	< 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	%	85	92	106	[J+]158
13C2-6:2 FTSA (surr.)	1	%	89	97	158	[J+]196
13C2-8:2 FTSA (surr.)	1	%	76	79	102	145
13C2-10:2 FTSA (surr.)	1	%	75	84	75	86
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	4.2	0.03	0.3	1.27
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	4.64	< 0.05	0.32	1.56
Sum of PFASs (n=30)*	0.1	ug/L	4.9	< 0.1	0.4	1.6

Client Sample ID			0445_QC301_251013	0445_QC301_251014	0445_QC301_251015	0445_QC301_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059092	M25-Oc0059093	M25-Oc0059094	M25-Oc0059095
Date Sampled			Oct 13, 2025	Oct 15, 2025	Oct 15, 2025	Oct 16, 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	%	106	104	104	104
13C5-PFPeA (surr.)	1	%	132	122	130	127
13C5-PFHxA (surr.)	1	%	143	142	127	132
13C4-PFHpA (surr.)	1	%	120	117	114	116
13C8-PFOA (surr.)	1	%	113	106	103	108
13C5-PFNA (surr.)	1	%	112	107	104	107
13C6-PFDA (surr.)	1	%	119	115	101	109
13C2-PFUnDA (surr.)	1	%	116	108	92	96
13C2-PFDoDA (surr.)	1	%	92	87	69	72
13C2-PFTeDA (surr.)	1	%	81	57	74	70

Client Sample ID			0445_QC301_251013	0445_QC301_251014	0445_QC301_251015	0445_QC301_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059092	M25-Oc0059093	M25-Oc0059094	M25-Oc0059095
Date Sampled			Oct 13, 2025	Oct 15, 2025	Oct 15, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
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	%	101	97	97	96
D3-N-MeFOSA (surr.)	1	%	52	[J-]39	[J-]42	[J-]25
D5-N-EtFOSA (surr.)	1	%	[J-]43	[J-]40	[J-]35	[J-]20
D7-N-MeFOSE (surr.)	1	%	100	81	84	80
D9-N-EtFOSE (surr.)	1	%	89	73	77	73
D5-N-EtFOSAA (surr.)	1	%	100	106	86	91
D3-N-MeFOSAA (surr.)	1	%	107	102	98	96
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	%	123	123	122	122
18O2-PFHxS (surr.)	1	%	104	103	99	101
13C8-PFOS (surr.)	1	%	113	114	95	93
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	%	137	132	110	117
13C2-6:2 FTSA (surr.)	1	%	100	103	106	112
13C2-8:2 FTSA (surr.)	1	%	118	123	114	109
13C2-10:2 FTSA (surr.)	1	%	98	101	92	95
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			0445_QC301_251017	0445_QC302_251014	0445_QC302_251017	0445_QC401_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059096	M25-Oc0059097	M25-Oc0059098	M25-Oc0059099
Date Sampled			Oct 17, 2025	Oct 14, 2025	Oct 17, 2025	Oct 13, 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	%	106	107	109	[J-]45
13C5-PFPeA (surr.)	1	%	130	131	144	59
13C5-PFHxA (surr.)	1	%	131	137	140	55
13C4-PFHpA (surr.)	1	%	118	124	126	[J-]48
13C8-PFOA (surr.)	1	%	110	114	113	[J-]43
13C5-PFNA (surr.)	1	%	109	116	119	[J-]44
13C6-PFDA (surr.)	1	%	109	127	127	[J-]39
13C2-PFUnDA (surr.)	1	%	93	121	124	[J-]33
13C2-PFDoDA (surr.)	1	%	68	89	96	[J-]24
13C2-PFTeDA (surr.)	1	%	72	78	87	[J-]23
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	%	112	114	112	[J-]41
D3-N-MeFOSA (surr.)	1	%	[J-]36	[J-]36	[J-]47	[J-]13
D5-N-EtFOSA (surr.)	1	%	[J-]32	[J-]33	[J-]40	[J-]13
D7-N-MeFOSE (surr.)	1	%	91	99	103	[J-]30
D9-N-EtFOSE (surr.)	1	%	82	87	98	[J-]31
D5-N-EtFOSAA (surr.)	1	%	85	112	114	[J-]35
D3-N-MeFOSAA (surr.)	1	%	98	115	117	[J-]37
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

Client Sample ID			0445_QC301_251017	0445_QC302_251014	0445_QC302_251017	0445_QC401_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059096	M25-Oc0059097	M25-Oc0059098	M25-Oc0059099
Date Sampled			Oct 17, 2025	Oct 14, 2025	Oct 17, 2025	Oct 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	128	126	123	56
18O2-PFHxS (surr.)	1	%	105	106	108	[J-]41
13C8-PFOS (surr.)	1	%	98	113	120	[J-]38
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	%	119	135	137	51
13C2-6:2 FTSA (surr.)	1	%	118	109	111	[J-]49
13C2-8:2 FTSA (surr.)	1	%	110	134	132	[J-]38
13C2-10:2 FTSA (surr.)	1	%	91	103	108	[J-]39
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			0445_QC401_251014	0445_QC401_251015	0445_QC401_251016	0445_QC401_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059100	M25-Oc0059101	M25-Oc0059102	M25-Oc0059103
Date Sampled			Oct 14, 2025	Oct 15, 2025	Oct 16, 2025	Oct 17, 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	%	96	95	102	96
13C5-PFPeA (surr.)	1	%	101	72	84	75
13C5-PFHxA (surr.)	1	%	99	102	115	105
13C4-PFHpA (surr.)	1	%	98	95	104	100
13C8-PFOA (surr.)	1	%	97	96	111	100
13C5-PFNA (surr.)	1	%	105	85	106	96
13C6-PFDA (surr.)	1	%	75	93	129	116
13C2-PFUnDA (surr.)	1	%	75	91	135	123
13C2-PFDoDA (surr.)	1	%	54	66	108	98
13C2-PFTeDA (surr.)	1	%	[J-]23	95	117	80

Client Sample ID			0445_QC401_251014	0445_QC401_251015	0445_QC401_251016	0445_QC401_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059100	M25-Oc0059101	M25-Oc0059102	M25-Oc0059103
Date Sampled			Oct 14, 2025	Oct 15, 2025	Oct 16, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
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	%	89	86	101	94
D3-N-MeFOSA (surr.)	1	%	86	[J-]44	96	122
D5-N-EtFOSA (surr.)	1	%	81	[J-]44	99	134
D7-N-MeFOSE (surr.)	1	%	79	93	120	122
D9-N-EtFOSE (surr.)	1	%	66	78	101	105
D5-N-EtFOSAA (surr.)	1	%	96	71	106	96
D3-N-MeFOSAA (surr.)	1	%	83	80	104	103
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	%	91	96	109	103
18O2-PFHxS (surr.)	1	%	95	86	101	92
13C8-PFOS (surr.)	1	%	82	74	105	98
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	%	92	95	114	98
13C2-6:2 FTSA (surr.)	1	%	101	93	100	91
13C2-8:2 FTSA (surr.)	1	%	80	93	121	116
13C2-10:2 FTSA (surr.)	1	%	80	85	111	105
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			0445_QC502_251017	0445_QC501_251017	0445_QC503_251017	0445_QC504_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059104	M25-Oc0059105	M25-Oc0059106	M25-Oc0059107
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 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	%	100	96	95	97
13C5-PFPeA (surr.)	1	%	81	83	86	112
13C5-PFHxA (surr.)	1	%	110	109	107	114
13C4-PFHpA (surr.)	1	%	105	99	101	100
13C8-PFOA (surr.)	1	%	103	101	106	99
13C5-PFNA (surr.)	1	%	98	94	95	85
13C6-PFDA (surr.)	1	%	114	109	115	65
13C2-PFUnDA (surr.)	1	%	119	104	115	57
13C2-PFDoDA (surr.)	1	%	84	79	94	62
13C2-PFTeDA (surr.)	1	%	78	95	95	67
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	%	82	94	88	101
D3-N-MeFOSA (surr.)	1	%	69	79	52	73
D5-N-EtFOSA (surr.)	1	%	65	78	[J-]48	74
D7-N-MeFOSE (surr.)	1	%	109	118	97	106
D9-N-EtFOSE (surr.)	1	%	84	94	86	92
D5-N-EtFOSAA (surr.)	1	%	94	89	99	87
D3-N-MeFOSAA (surr.)	1	%	101	100	103	94
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

Client Sample ID			0445_QC502_251017	0445_QC501_251017	0445_QC503_251017	0445_QC504_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059104	M25-Oc0059105	M25-Oc0059106	M25-Oc0059107
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	110	103	105	109
18O2-PFHxS (surr.)	1	%	101	98	96	91
13C8-PFOS (surr.)	1	%	103	93	100	85
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	%	101	100	99	99
13C2-6:2 FTSA (surr.)	1	%	100	91	94	90
13C2-8:2 FTSA (surr.)	1	%	106	101	107	93
13C2-10:2 FTSA (surr.)	1	%	86	87	114	87
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			0445_QC505_251017	0445_QC506_251017	0445_SW390_131013	0445_SW393_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059108	M25-Oc0059109	M25-Oc0059110	M25-Oc0059111
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 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
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	%	99	121	-	101
13C5-PFPeA (surr.)	1	%	117	116	-	102
13C5-PFHxA (surr.)	1	%	118	135	-	114
13C4-PFHpA (surr.)	1	%	104	126	-	85
13C8-PFOA (surr.)	1	%	97	126	-	88
13C5-PFNA (surr.)	1	%	88	127	-	65
13C6-PFDA (surr.)	1	%	95	[J+]151	-	65
13C2-PFUnDA (surr.)	1	%	82	[J+]155	-	78
13C2-PFDoDA (surr.)	1	%	57	123	-	66
13C2-PFTeDA (surr.)	1	%	57	120	-	69

Client Sample ID			0445_QC505_251017	0445_QC506_251017	0445_SW390_131013	0445_SW393_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059108	M25-Oc0059109	M25-Oc0059110	M25-Oc0059111
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
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	%	93	112	-	89
D3-N-MeFOSA (surr.)	1	%	64	89	-	72
D5-N-EtFOSA (surr.)	1	%	61	86	-	70
D7-N-MeFOSE (surr.)	1	%	86	130	-	69
D9-N-EtFOSE (surr.)	1	%	78	112	-	63
D5-N-EtFOSAA (surr.)	1	%	78	123	-	77
D3-N-MeFOSAA (surr.)	1	%	81	132	-	82
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	< 0.01	< 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	< 0.01	< 0.01	-	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	-	< 0.01
13C3-PFBS (surr.)	1	%	111	128	-	112
18O2-PFHxS (surr.)	1	%	94	124	-	95
13C8-PFOS (surr.)	1	%	86	131	-	91
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	%	119	135	-	126
13C2-6:2 FTSA (surr.)	1	%	105	109	-	99
13C2-8:2 FTSA (surr.)	1	%	99	148	-	90
13C2-10:2 FTSA (surr.)	1	%	66	144	-	75
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	< 0.01	-	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	< 0.05	-	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	-	< 0.1
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	-	< 0.001	-
Sum of PFASs (n=30)*	0.005	ug/L	-	-	< 0.005	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	-	< 0.005	-

Client Sample ID			0445_QC505_251017	0445_QC506_251017	0445_SW390_131013	0445_SW393_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059108	M25-Oc0059109	M25-Oc0059110	M25-Oc0059111
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	-	< 0.005	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	-	< 0.005	-
13C8-FOSA (surr.)	1	%	-	-	107	-
D3-N-MeFOSA (surr.)	1	%	-	-	[N09]152	-
D5-N-EtFOSA (surr.)	1	%	-	-	[N09]169	-
D7-N-MeFOSE (surr.)	1	%	-	-	98	-
D9-N-EtFOSE (surr.)	1	%	-	-	106	-
D5-N-EtFOSAA (surr.)	1	%	-	-	96	-
D3-N-MeFOSAA (surr.)	1	%	-	-	83	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	-	< 0.005	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C4-PFBA (surr.)	1	%	-	-	93	-
13C5-PFPeA (surr.)	1	%	-	-	57	-
13C5-PFHxA (surr.)	1	%	-	-	82	-
13C4-PFHpA (surr.)	1	%	-	-	87	-
13C8-PFOA (surr.)	1	%	-	-	90	-
13C5-PFNA (surr.)	1	%	-	-	85	-
13C6-PFDA (surr.)	1	%	-	-	83	-
13C2-PFUnDA (surr.)	1	%	-	-	81	-
13C2-PFDoDA (surr.)	1	%	-	-	58	-
13C2-PFTeDA (surr.)	1	%	-	-	104	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	-	< 0.001	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	-	-	< 0.001	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	-	< 0.001	-

Client Sample ID			0445_QC505_251017	0445_QC506_251017	0445_SW390_131013	0445_SW393_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059108	M25-Oc0059109	M25-Oc0059110	M25-Oc0059111
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
13C3-PFBS (surr.)	1	%	-	-	94	-
18O2-PFHxS (surr.)	1	%	-	-	91	-
13C8-PFOS (surr.)	1	%	-	-	90	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	-	< 0.005	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	-	< 0.001	-
13C2-4:2 FTSA (surr.)	1	%	-	-	82	-
13C2-6:2 FTSA (surr.)	1	%	-	-	137	-
13C2-8:2 FTSA (surr.)	1	%	-	-	132	-
13C2-10:2 FTSA (surr.)	1	%	-	-	79	-

Client Sample ID			0445_SW395_251015	0445_SW398_251015	0445_SW403_251013	0445_SW404_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059112	M25-Oc0059115	M25-Oc0059118	M25-Oc0059119
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 13, 2025	Oct 13, 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	0.04	< 0.01	0.05	< 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	%	90	101	98	87
13C5-PFPeA (surr.)	1	%	72	82	83	92
13C5-PFHxA (surr.)	1	%	96	110	96	91
13C4-PFHpA (surr.)	1	%	96	104	96	89
13C8-PFOA (surr.)	1	%	95	104	100	84
13C5-PFNA (surr.)	1	%	80	91	80	90
13C6-PFDA (surr.)	1	%	92	103	81	59
13C2-PFUnDA (surr.)	1	%	80	78	72	44
13C2-PFDoDA (surr.)	1	%	62	50	58	25
13C2-PFTeDA (surr.)	1	%	67	51	[J-]43	44

Client Sample ID			0445_SW395_251015	0445_SW398_251015	0445_SW403_251013	0445_SW404_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059112	M25-Oc0059115	M25-Oc0059118	M25-Oc0059119
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 13, 2025	Oct 13, 2025
Test/Reference	LOR	Unit				
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	%	78	85	88	76
D3-N-MeFOSA (surr.)	1	%	70	74	73	60
D5-N-EtFOSA (surr.)	1	%	70	73	80	60
D7-N-MeFOSE (surr.)	1	%	74	85	63	35
D9-N-EtFOSE (surr.)	1	%	63	64	57	32
D5-N-EtFOSAA (surr.)	1	%	59	67	57	68
D3-N-MeFOSAA (surr.)	1	%	72	83	66	60
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	0.02	< 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	0.02	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.03	< 0.01	[N09]0.13	< 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	[N09]0.05	< 0.01	[N09]0.19	< 0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	90	108	94	93
18O2-PFHxS (surr.)	1	%	92	98	97	85
13C8-PFOS (surr.)	1	%	90	95	81	69
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	%	104	110	125	78
13C2-6:2 FTSA (surr.)	1	%	91	104	146	90
13C2-8:2 FTSA (surr.)	1	%	80	101	105	63
13C2-10:2 FTSA (surr.)	1	%	51	61	66	31
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.08	< 0.01	0.32	< 0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.12	< 0.05	0.4	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	0.1	< 0.1	0.4	< 0.1

Client Sample ID			0445_SW405_251013	0445_SW409_251013	0445_SW412_251013	0445_SW416_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059120	M25-Oc0059121	M25-Oc0059122	M25-Oc0059123
Date Sampled			Oct 13, 2025	Oct 13, 2025	Oct 13, 2025	Oct 13, 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	0.03	0.04	0.04	-
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	-
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	%	90	102	98	-
13C5-PFPeA (surr.)	1	%	60	80	75	-
13C5-PFHxA (surr.)	1	%	79	108	99	-
13C4-PFHpA (surr.)	1	%	78	104	104	-
13C8-PFOA (surr.)	1	%	81	109	105	-
13C5-PFNA (surr.)	1	%	68	102	90	-
13C6-PFDA (surr.)	1	%	80	104	101	-
13C2-PFUnDA (surr.)	1	%	69	99	84	-
13C2-PFDoDA (surr.)	1	%	51	68	67	-
13C2-PFTeDA (surr.)	1	%	[J-]48	81	82	-
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	%	69	94	92	-
D3-N-MeFOSA (surr.)	1	%	[J-]29	53	94	-
D5-N-EtFOSA (surr.)	1	%	[J-]25	[J-]49	107	-
D7-N-MeFOSE (surr.)	1	%	54	73	72	-
D9-N-EtFOSE (surr.)	1	%	[J-]41	63	67	-
D5-N-EtFOSAA (surr.)	1	%	[J-]49	77	67	-
D3-N-MeFOSAA (surr.)	1	%	61	87	77	-
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]0.06	[N09]0.01	[N09]0.03	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.06	[N09]0.04	[N09]0.04	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	-

Client Sample ID			0445_SW405_251013	0445_SW409_251013	0445_SW412_251013	0445_SW416_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059120	M25-Oc0059121	M25-Oc0059122	M25-Oc0059123
Date Sampled			Oct 13, 2025	Oct 13, 2025	Oct 13, 2025	Oct 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	79	107	89	-
18O2-PFHxS (surr.)	1	%	74	98	96	-
13C8-PFOS (surr.)	1	%	70	98	89	-
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	%	94	134	125	-
13C2-6:2 FTSA (surr.)	1	%	90	112	109	-
13C2-8:2 FTSA (surr.)	1	%	76	117	90	-
13C2-10:2 FTSA (surr.)	1	%	55	83	67	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.12	0.05	0.07	-
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.15	0.09	0.11	-
Sum of PFASs (n=30)*	0.1	ug/L	0.2	< 0.1	0.1	-
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	-	-	< 0.001
Sum of PFASs (n=30)*	0.005	ug/L	-	-	-	< 0.005
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	-	-	< 0.005
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	-	-	< 0.005
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	-	-	< 0.005
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	-	-	< 0.005
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	-	-	< 0.005
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	-	-	< 0.005
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	-	-	< 0.005
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	-	-	< 0.005
13C8-FOSA (surr.)	1	%	-	-	-	116
D3-N-MeFOSA (surr.)	1	%	-	-	-	[N09]165
D5-N-EtFOSA (surr.)	1	%	-	-	-	[N09]174
D7-N-MeFOSE (surr.)	1	%	-	-	-	102
D9-N-EtFOSE (surr.)	1	%	-	-	-	110
D5-N-EtFOSAA (surr.)	1	%	-	-	-	102
D3-N-MeFOSAA (surr.)	1	%	-	-	-	93
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	-	-	< 0.005
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	-	-	< 0.001

Client Sample ID			0445_SW405_251013	0445_SW409_251013	0445_SW412_251013	0445_SW416_251013
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059120	M25-Oc0059121	M25-Oc0059122	M25-Oc0059123
Date Sampled			Oct 13, 2025	Oct 13, 2025	Oct 13, 2025	Oct 13, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	-	-	< 0.001
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	-	-	< 0.001
13C4-PFBA (surr.)	1	%	-	-	-	55
13C5-PFPeA (surr.)	1	%	-	-	-	71
13C5-PFHxA (surr.)	1	%	-	-	-	87
13C4-PFHpA (surr.)	1	%	-	-	-	93
13C8-PFOA (surr.)	1	%	-	-	-	96
13C5-PFNA (surr.)	1	%	-	-	-	91
13C6-PFDA (surr.)	1	%	-	-	-	88
13C2-PFUnDA (surr.)	1	%	-	-	-	82
13C2-PFDoDA (surr.)	1	%	-	-	-	59
13C2-PFTeDA (surr.)	1	%	-	-	-	96
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	-	-	< 0.001
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	-	-	< 0.001
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	-	-	< 0.001
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	-	-	< 0.001
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	-	-	-	< 0.001
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	-	-	< 0.001
13C3-PFBS (surr.)	1	%	-	-	-	97
18O2-PFHxS (surr.)	1	%	-	-	-	96
13C8-PFOS (surr.)	1	%	-	-	-	97
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	-	-	< 0.001
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	-	-	< 0.005
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	-	-	< 0.001
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	-	-	< 0.001
13C2-4:2 FTSA (surr.)	1	%	-	-	-	94
13C2-6:2 FTSA (surr.)	1	%	-	-	-	145
13C2-8:2 FTSA (surr.)	1	%	-	-	-	141
13C2-10:2 FTSA (surr.)	1	%	-	-	-	80

Client Sample ID			0445_SW427_251015	0445_SW430_251015	0445_SW431_251015	0445_SW432_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059124	M25-Oc0059125	M25-Oc0059126	M25-Oc0059127
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 15, 2025	Oct 15, 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	0.03	< 0.01	0.02	0.02
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	%	72	72	87	84
13C5-PFPeA (surr.)	1	%	87	83	99	107
13C5-PFHxA (surr.)	1	%	85	81	100	108
13C4-PFHpA (surr.)	1	%	88	82	100	112
13C8-PFOA (surr.)	1	%	86	79	94	105
13C5-PFNA (surr.)	1	%	94	84	98	110
13C6-PFDA (surr.)	1	%	67	58	55	64
13C2-PFUnDA (surr.)	1	%	72	55	[J-]38	53
13C2-PFDoDA (surr.)	1	%	63	[J-]42	[J-]24	[J-]40
13C2-PFTeDA (surr.)	1	%	75	60	[J-]16	[J-]24
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	%	88	75	82	100
D3-N-MeFOSA (surr.)	1	%	93	83	55	89
D5-N-EtFOSA (surr.)	1	%	103	91	58	89
D7-N-MeFOSE (surr.)	1	%	71	[J-]47	[J-]36	59
D9-N-EtFOSE (surr.)	1	%	64	39	25	45
D5-N-EtFOSAA (surr.)	1	%	83	63	56	65
D3-N-MeFOSAA (surr.)	1	%	70	61	51	61
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	[N09]0.06	[N09]0.02	[N09]0.05	[N09]0.06
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445_SW427_251015	0445_SW430_251015	0445_SW431_251015	0445_SW432_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059124	M25-Oc0059125	M25-Oc0059126	M25-Oc0059127
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	87	81	96	101
18O2-PFHxS (surr.)	1	%	90	80	99	105
13C8-PFOS (surr.)	1	%	77	64	76	78
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	%	80	84	117	115
13C2-6:2 FTSA (surr.)	1	%	96	88	106	119
13C2-8:2 FTSA (surr.)	1	%	75	64	64	72
13C2-10:2 FTSA (surr.)	1	%	71	52	[J-]34	54
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.06	0.02	0.05	0.06
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	0.09	< 0.05	0.07	0.08
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	< 0.1	< 0.1

Client Sample ID			0445_SW434_251015	0445_SW462_251013	0445_SW470_251015	0445_SW471_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059128	M25-Oc0059129	M25-Oc0059130	M25-Oc0059131
Date Sampled			Oct 15, 2025	Oct 13, 2025	Oct 15, 2025	Oct 15, 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	0.02	0.03	0.09
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.35
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.04
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.07
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	%	87	69	79	69
13C5-PFPeA (surr.)	1	%	96	96	94	93
13C5-PFHxA (surr.)	1	%	95	98	96	99
13C4-PFHpA (surr.)	1	%	94	99	99	103
13C8-PFOA (surr.)	1	%	89	92	94	98
13C5-PFNA (surr.)	1	%	99	91	98	98
13C6-PFDA (surr.)	1	%	66	53	65	58
13C2-PFUnDA (surr.)	1	%	64	[J-]42	54	[J-]45
13C2-PFDoDA (surr.)	1	%	[J-]47	[J-]28	[J-]34	[J-]31
13C2-PFTeDA (surr.)	1	%	[J-]29	[J-]16	[J-]20	[J-]21

Client Sample ID			0445_SW434_251015	0445_SW462_251013	0445_SW470_251015	0445_SW471_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059128	M25-Oc0059129	M25-Oc0059130	M25-Oc0059131
Date Sampled			Oct 15, 2025	Oct 13, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
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	%	84	82	86	87
D3-N-MeFOSA (surr.)	1	%	75	66	68	56
D5-N-EtFOSA (surr.)	1	%	69	65	66	56
D7-N-MeFOSE (surr.)	1	%	62	[J-]48	[J-]47	[J-]41
D9-N-EtFOSE (surr.)	1	%	49	31	35	[J-]30
D5-N-EtFOSAA (surr.)	1	%	75	58	71	62
D3-N-MeFOSAA (surr.)	1	%	66	52	65	53
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	< 0.01	0.02	0.68
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	0.25
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	< 0.01	0.02	0.55
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	< 0.01	[N09]0.02	[N09]0.12	[N09]2.2
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.07
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	< 0.01	[N09]0.05	[N09]0.16	[N09]0.81
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	93	93	95	94
18O2-PFHxS (surr.)	1	%	94	98	95	101
13C8-PFOS (surr.)	1	%	78	68	80	79
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	%	83	121	110	142
13C2-6:2 FTSA (surr.)	1	%	91	121	104	123
13C2-8:2 FTSA (surr.)	1	%	70	61	72	72
13C2-10:2 FTSA (surr.)	1	%	56	[J-]41	[J-]42	[J-]42
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	< 0.01	0.07	0.28	3.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	0.09	0.33	4.24
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	< 0.1	0.4	5.1

Client Sample ID			0445E_MW009_251015	0445E_MW012_251016	0445E_MW016_251015	0445E_MW018_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059133	M25-Oc0059134	M25-Oc0059135	M25-Oc0059136
Date Sampled			Oct 15, 2025	Oct 16, 2025	Oct 15, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.20	< 0.05	0.16	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.29	< 0.01	0.27	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	1.3	< 0.01	1.3	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.19	< 0.01	0.24	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.44	< 0.01	0.47	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	%	86	85	92	86
13C5-PFPeA (surr.)	1	%	92	87	95	91
13C5-PFHxA (surr.)	1	%	89	90	91	91
13C4-PFHpA (surr.)	1	%	90	89	96	92
13C8-PFOA (surr.)	1	%	86	90	96	95
13C5-PFNA (surr.)	1	%	96	100	104	106
13C6-PFDA (surr.)	1	%	79	93	93	99
13C2-PFUnDA (surr.)	1	%	88	102	113	112
13C2-PFDoDA (surr.)	1	%	72	99	96	90
13C2-PFTeDA (surr.)	1	%	52	108	70	82
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	%	80	79	80	89
D3-N-MeFOSA (surr.)	1	%	93	114	95	121
D5-N-EtFOSA (surr.)	1	%	104	137	103	139
D7-N-MeFOSE (surr.)	1	%	78	61	78	67
D9-N-EtFOSE (surr.)	1	%	81	78	83	74
D5-N-EtFOSAA (surr.)	1	%	96	111	113	108
D3-N-MeFOSAA (surr.)	1	%	83	84	89	95
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.70	0.02	0.76	0.08
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.27	0.01	0.25	0.02
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.80	0.02	0.82	0.09
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]5.6	[N09]0.22	[N09]5.3	[N09]0.67
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.38	< 0.01	0.37	0.03
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]5.6	[N09]0.08	[N09]8.9	[N09]0.82
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445E_MW009_251015	0445E_MW012_251016	0445E_MW016_251015	0445E_MW018_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059133	M25-Oc0059134	M25-Oc0059135	M25-Oc0059136
Date Sampled			Oct 15, 2025	Oct 16, 2025	Oct 15, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	91	89	93	94
18O2-PFHxS (surr.)	1	%	90	87	93	93
13C8-PFOS (surr.)	1	%	83	87	85	83
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	0.09	< 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	%	77	78	82	82
13C2-6:2 FTSA (surr.)	1	%	85	106	95	106
13C2-8:2 FTSA (surr.)	1	%	73	93	80	84
13C2-10:2 FTSA (surr.)	1	%	93	159	124	112
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	11.2	0.3	14.2	1.49
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	14.41	0.32	17.4	1.58
Sum of PFASs (n=30)*	0.1	ug/L	16	0.4	19	1.7

Client Sample ID			0445E_MW020_251014	0445E_MW029_251016	0445E_MW034_251016	0445E_MW035_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059137	M25-Oc0059138	M25-Oc0059139	M25-Oc0059140
Date Sampled			Oct 14, 2025	Oct 16, 2025	Oct 16, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	0.07	< 0.05	0.29
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.04	0.20	0.05	0.59
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.17	0.38	0.19	2.2
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.02	0.09	0.03	0.32
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.07	0.05	0.06	0.72
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	%	69	145	114	105
13C5-PFPeA (surr.)	1	%	75	117	104	100
13C5-PFHxA (surr.)	1	%	74	125	111	99
13C4-PFHpA (surr.)	1	%	76	140	118	111
13C8-PFOA (surr.)	1	%	74	135	118	81
13C5-PFNA (surr.)	1	%	71	138	124	113
13C6-PFDA (surr.)	1	%	52	117	108	87
13C2-PFUnDA (surr.)	1	%	52	116	109	102
13C2-PFDoDA (surr.)	1	%	35	87	107	113
13C2-PFTeDA (surr.)	1	%	48	37	53	59

Client Sample ID			0445E_MW020_251014	0445E_MW029_251016	0445E_MW034_251016	0445E_MW035_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059137	M25-Oc0059138	M25-Oc0059139	M25-Oc0059140
Date Sampled			Oct 14, 2025	Oct 16, 2025	Oct 16, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
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	%	67	71	62	60
D3-N-MeFOSA (surr.)	1	%	62	62	64	75
D5-N-EtFOSA (surr.)	1	%	69	59	68	89
D7-N-MeFOSE (surr.)	1	%	31	52	51	52
D9-N-EtFOSE (surr.)	1	%	30	65	64	67
D5-N-EtFOSAA (surr.)	1	%	52	109	103	102
D3-N-MeFOSAA (surr.)	1	%	50	108	102	105
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.07	0.17	0.10	1.1
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.02	0.04	0.05	0.56
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.09	0.15	0.11	1.2
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]1.6	[N09]0.87	[N09]1.2	[N09]9.6
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.10	0.01	0.07	0.66
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]3.1	[N09]0.46	[N09]2.2	[N09]8.1
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	75	139	122	114
18O2-PFHxS (surr.)	1	%	78	140	119	110
13C8-PFOS (surr.)	1	%	61	130	114	134
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	0.23
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	%	79	145	119	107
13C2-6:2 FTSA (surr.)	1	%	89	125	96	92
13C2-8:2 FTSA (surr.)	1	%	55	142	124	104
13C2-10:2 FTSA (surr.)	1	%	37	75	94	125
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	4.7	1.33	3.4	17.7
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	5.07	2.29	3.83	23.15
Sum of PFASs (n=30)*	0.1	ug/L	5.3	2.5	4.1	26

Client Sample ID			0445E_MW042_251015	0445E_MW043_251015	0445E_MW046_D_251016	0445E_MW046_I_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059141	M25-Oc0059142	M25-Oc0059143	M25-Oc0059144
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.17	0.29	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.33	0.52	0.05	0.04
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	1.2	2.0	0.18	0.17
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.18	0.30	0.02	0.02
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.41	0.69	0.06	0.06
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	%	118	110	118	110
13C5-PFPeA (surr.)	1	%	106	94	105	99
13C5-PFHxA (surr.)	1	%	106	99	111	98
13C4-PFHpA (surr.)	1	%	119	107	114	103
13C8-PFOA (surr.)	1	%	96	80	108	99
13C5-PFNA (surr.)	1	%	119	107	120	112
13C6-PFDA (surr.)	1	%	85	70	93	90
13C2-PFUnDA (surr.)	1	%	110	104	107	115
13C2-PFDoDA (surr.)	1	%	93	99	87	109
13C2-PFTeDA (surr.)	1	%	42	54	34	49
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	%	74	62	63	63
D3-N-MeFOSA (surr.)	1	%	76	66	47	56
D5-N-EtFOSA (surr.)	1	%	88	92	[J-]49	200
D7-N-MeFOSE (surr.)	1	%	60	52	47	51
D9-N-EtFOSE (surr.)	1	%	74	64	59	61
D5-N-EtFOSAA (surr.)	1	%	103	102	107	101
D3-N-MeFOSAA (surr.)	1	%	109	104	108	99
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.59	0.99	0.09	0.08
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.28	0.48	0.04	0.04
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.64	1.3	0.09	0.09
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]5.3	[N09]9.3	[N09]1.3	[N09]1.3
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.41	0.69	0.07	0.07
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]5.2	[N09]12	[N09]2.4	[N09]2.6
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445E_MW042_251015	0445E_MW043_251015	0445E_MW046_D_251016	0445E_MW046_I_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059141	M25-Oc0059142	M25-Oc0059143	M25-Oc0059144
Date Sampled			Oct 15, 2025	Oct 15, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	124	109	121	114
18O2-PFHxS (surr.)	1	%	125	122	121	103
13C8-PFOS (surr.)	1	%	124	115	115	104
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	0.15	0.35	< 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	%	116	104	116	105
13C2-6:2 FTSA (surr.)	1	%	106	85	107	99
13C2-8:2 FTSA (surr.)	1	%	114	99	130	123
13C2-10:2 FTSA (surr.)	1	%	85	82	89	89
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	10.5	21.3	3.7	3.9
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	13.53	26.44	4.1	4.27
Sum of PFASs (n=30)*	0.1	ug/L	15	29	4.3	4.5

Client Sample ID			0445E_MW052_251016	0445E_MW319_251016	0445E_MW350_D_251016	0445E_MW350_S_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059145	M25-Oc0059146	M25-Oc0059147	M25-Oc0059148
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.10	< 0.05	< 0.05	1.1
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.13	< 0.01	0.04	2.5
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.63	< 0.01	0.08	6.5
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.17	< 0.01	0.02	1.1
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.22	< 0.01	0.02	2.9
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	0.04
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	%	100	95	96	96
13C5-PFPeA (surr.)	1	%	103	90	97	84
13C5-PFHxA (surr.)	1	%	104	89	97	137
13C4-PFHpA (surr.)	1	%	105	87	98	89
13C8-PFOA (surr.)	1	%	98	87	98	114
13C5-PFNA (surr.)	1	%	118	91	104	80
13C6-PFDA (surr.)	1	%	100	69	97	40
13C2-PFUnDA (surr.)	1	%	103	66	110	93
13C2-PFDoDA (surr.)	1	%	133	48	107	105
13C2-PFTeDA (surr.)	1	%	64	10	51	58

Client Sample ID			0445E_MW052_251016	0445E_MW319_251016	0445E_MW350_D_251016	0445E_MW350_S_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059145	M25-Oc0059146	M25-Oc0059147	M25-Oc0059148
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
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	%	67	79	73	64
D3-N-MeFOSA (surr.)	1	%	75	54	67	65
D5-N-EtFOSA (surr.)	1	%	82	[J-]72	80	137
D7-N-MeFOSE (surr.)	1	%	60	62	59	58
D9-N-EtFOSE (surr.)	1	%	68	63	67	67
D5-N-EtFOSAA (surr.)	1	%	120	62	95	93
D3-N-MeFOSAA (surr.)	1	%	116	69	96	90
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.39	< 0.01	0.04	2.5
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	0.01	< 0.01	< 0.01	0.02
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.14	< 0.01	0.02	1.2
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.43	< 0.01	0.04	4.9
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]2.6	[N09]0.02	[N09]0.33	[N09]44
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.11	< 0.01	0.02	5.0
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]3.4	[N09]0.11	[N09]0.57	[N09]39
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	116	95	106	100
18O2-PFHxS (surr.)	1	%	105	86	99	119
13C8-PFOS (surr.)	1	%	99	75	104	119
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	2.3
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	92	100	89
13C2-6:2 FTSA (surr.)	1	%	110	81	92	67
13C2-8:2 FTSA (surr.)	1	%	137	95	113	55
13C2-10:2 FTSA (surr.)	1	%	158	47	80	111
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	6	0.13	0.9	83
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	7.64	0.13	1.1	101.9
Sum of PFASs (n=30)*	0.1	ug/L	8.3	0.1	1.2	110

Client Sample ID			0445E_MW351_251016	0445E_MW352_251016	0445E_MW354_251016	0445E_MW403_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059149	M25-Oc0059150	M25-Oc0059151	M25-Oc0059152
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	-	-	< 0.05	1.9
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	-	-	< 0.01	3.6
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	-	-	0.02	12
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	-	-	< 0.01	1.5
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	-	-	< 0.01	2.0
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	-	-	< 0.01	0.04
Perfluorodecanoic acid (PFDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluoroundecanoic acid (PFUnDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorododecanoic acid (PFDoDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorotridecanoic acid (PFTrDA)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
13C4-PFBA (surr.)	1	%	-	-	98	91
13C5-PFPeA (surr.)	1	%	-	-	100	79
13C5-PFHxA (surr.)	1	%	-	-	103	124
13C4-PFHpA (surr.)	1	%	-	-	100	88
13C8-PFOA (surr.)	1	%	-	-	100	115
13C5-PFNA (surr.)	1	%	-	-	103	90
13C6-PFDA (surr.)	1	%	-	-	94	45
13C2-PFUnDA (surr.)	1	%	-	-	96	107
13C2-PFDoDA (surr.)	1	%	-	-	87	116
13C2-PFTeDA (surr.)	1	%	-	-	38	60
Perfluoroalkyl sulfonamido substances						
Perfluorooctane sulfonamide (FOSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.05	ug/L	-	-	< 0.05	0.15
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.05	ug/L	-	-	< 0.05	< 0.05
13C8-FOSA (surr.)	1	%	-	-	67	57
D3-N-MeFOSA (surr.)	1	%	-	-	53	55
D5-N-EtFOSA (surr.)	1	%	-	-	55	108
D7-N-MeFOSE (surr.)	1	%	-	-	45	49
D9-N-EtFOSE (surr.)	1	%	-	-	55	60
D5-N-EtFOSAA (surr.)	1	%	-	-	93	106
D3-N-MeFOSAA (surr.)	1	%	-	-	102	105
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	-	-	0.02	7.0
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	-	-	< 0.01	0.03
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	-	-	< 0.01	3.8
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	-	-	0.02	7.8
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	-	-	[N09]0.14	[N09]42
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	-	-	0.01	2.8
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	-	-	[N09]0.21	[N09]33
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	-	-	< 0.01	< 0.01

Client Sample ID			0445E_MW351_251016	0445E_MW352_251016	0445E_MW354_251016	0445E_MW403_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059149	M25-Oc0059150	M25-Oc0059151	M25-Oc0059152
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	-	-	110	121
18O2-PFHxS (surr.)	1	%	-	-	110	118
13C8-PFOS (surr.)	1	%	-	-	103	124
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	-	-	< 0.05	0.56
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	0.06
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	-	-	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	-	-	105	82
13C2-6:2 FTSA (surr.)	1	%	-	-	97	64
13C2-8:2 FTSA (surr.)	1	%	-	-	123	78
13C2-10:2 FTSA (surr.)	1	%	-	-	75	111
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	-	-	0.35	75
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	-	-	0.39	103.62
Sum of PFASs (n=30)*	0.1	ug/L	-	-	0.4	120
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	0.051	0.03	-	-
Sum of PFASs (n=30)*	0.005	ug/L	0.084	0.039	-	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	0.077	0.037	-	-
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
13C8-FOSA (surr.)	1	%	83	110	-	-
D3-N-MeFOSA (surr.)	1	%	134	[N09]156	-	-
D5-N-EtFOSA (surr.)	1	%	[J]131	[N09]173	-	-
D7-N-MeFOSE (surr.)	1	%	87	95	-	-
D9-N-EtFOSE (surr.)	1	%	86	105	-	-
D5-N-EtFOSAA (surr.)	1	%	62	115	-	-
D3-N-MeFOSAA (surr.)	1	%	77	88	-	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	0.006	< 0.005	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	0.003	0.001	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	0.006	0.002	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	0.002	< 0.001	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	0.004	0.002	-	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-

Client Sample ID			0445E_MW351_251016	0445E_MW352_251016	0445E_MW354_251016	0445E_MW403_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059149	M25-Oc0059150	M25-Oc0059151	M25-Oc0059152
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
13C4-PFBA (surr.)	1	%	74	70	-	-
13C5-PFPeA (surr.)	1	%	59	73	-	-
13C5-PFHxA (surr.)	1	%	70	84	-	-
13C4-PFHpA (surr.)	1	%	75	87	-	-
13C8-PFOA (surr.)	1	%	88	89	-	-
13C5-PFNA (surr.)	1	%	91	87	-	-
13C6-PFDA (surr.)	1	%	104	94	-	-
13C2-PFUnDA (surr.)	1	%	72	88	-	-
13C2-PFDoDA (surr.)	1	%	99	76	-	-
13C2-PFTeDA (surr.)	1	%	65	90	-	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	0.005	0.002	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	< 0.001	< 0.001	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	0.004	0.002	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	[N09]0.029	[N09]0.009	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	0.001	< 0.001	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	[N09]0.022	[N09]0.021	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	< 0.001	< 0.001	-	-
13C3-PFBS (surr.)	1	%	88	94	-	-
18O2-PFHxS (surr.)	1	%	90	91	-	-
13C8-PFOS (surr.)	1	%	89	91	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	< 0.005	< 0.005	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	< 0.001	< 0.001	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	0.002	< 0.001	-	-
13C2-4:2 FTSA (surr.)	1	%	102	84	-	-
13C2-6:2 FTSA (surr.)	1	%	136	147	-	-
13C2-8:2 FTSA (surr.)	1	%	102	138	-	-
13C2-10:2 FTSA (surr.)	1	%	82	135	-	-

Client Sample ID			0445E_MW404_251016	0445E_SW382_251016	0445E_SW387_251015	0445E_SW388_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059153	M25-Oc0059154	M25-Oc0059155	M25-Oc0059156
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	1.9	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	3.7	0.02	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	11	0.01	0.04	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	3.8	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	4.5	< 0.01	0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.04	< 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	%	97	93	97	93
13C5-PFPeA (surr.)	1	%	81	89	94	97
13C5-PFHxA (surr.)	1	%	135	140	90	93
13C4-PFHpA (surr.)	1	%	75	84	83	91
13C8-PFOA (surr.)	1	%	124	83	80	88
13C5-PFNA (surr.)	1	%	75	89	80	89
13C6-PFDA (surr.)	1	%	26	79	68	65
13C2-PFUnDA (surr.)	1	%	104	74	69	53
13C2-PFDoDA (surr.)	1	%	115	57	61	36
13C2-PFTeDA (surr.)	1	%	50	22	34	15
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	%	60	55	56	58
D3-N-MeFOSA (surr.)	1	%	50	40	41	32
D5-N-EtFOSA (surr.)	1	%	95	[J-]23	[J-]48	120
D7-N-MeFOSE (surr.)	1	%	56	26	40	23
D9-N-EtFOSE (surr.)	1	%	64	29	44	24
D5-N-EtFOSAA (surr.)	1	%	104	85	66	61
D3-N-MeFOSAA (surr.)	1	%	100	93	81	74
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	8.1	< 0.01	0.03	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	0.12	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	4.0	< 0.01	0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	9.0	< 0.01	0.03	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]55	< 0.01	[N09]0.28	[N09]0.05
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	3.4	< 0.01	0.02	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]54	< 0.01	[N09]0.24	[N09]0.07
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445E_MW404_251016	0445E_SW382_251016	0445E_SW387_251015	0445E_SW388_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059153	M25-Oc0059154	M25-Oc0059155	M25-Oc0059156
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	122	96	101	105
18O2-PFHxS (surr.)	1	%	126	136	94	96
13C8-PFOS (surr.)	1	%	130	134	84	87
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	0.07	< 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	%	84	94	81	89
13C2-6:2 FTSA (surr.)	1	%	55	85	76	84
13C2-8:2 FTSA (surr.)	1	%	46	108	91	91
13C2-10:2 FTSA (surr.)	1	%	85	57	51	35
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	109	< 0.01	0.52	0.12
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	142.07	< 0.05	0.6	0.12
Sum of PFASs (n=30)*	0.1	ug/L	160	< 0.1	0.7	0.1

Client Sample ID			0445N_MW342_251016	0445N_MW343_251015	0445N_MW344_251016	0445N_MW345_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059157	M25-Oc0059158	M25-Oc0059159	M25-Oc0059160
Date Sampled			Oct 16, 2025	Oct 15, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.16	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.28	2.0	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	1.2	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.08	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.21	< 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	%	54	84	82	91
13C5-PFPeA (surr.)	1	%	96	89	105	107
13C5-PFHxA (surr.)	1	%	95	97	107	112
13C4-PFHpA (surr.)	1	%	97	102	106	112
13C8-PFOA (surr.)	1	%	79	104	111	111
13C5-PFNA (surr.)	1	%	103	102	117	121
13C6-PFDA (surr.)	1	%	86	101	116	104
13C2-PFUnDA (surr.)	1	%	96	106	124	93
13C2-PFDoDA (surr.)	1	%	114	117	139	87
13C2-PFTeDA (surr.)	1	%	50	77	81	41

Client Sample ID			0445N_MW342_251016	0445N_MW343_251015	0445N_MW344_251016	0445N_MW345_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059157	M25-Oc0059158	M25-Oc0059159	M25-Oc0059160
Date Sampled			Oct 16, 2025	Oct 15, 2025	Oct 16, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
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	%	64	79	79	72
D3-N-MeFOSA (surr.)	1	%	24	65	73	60
D5-N-EtFOSA (surr.)	1	%	168	156	67	59
D7-N-MeFOSE (surr.)	1	%	38	58	58	50
D9-N-EtFOSE (surr.)	1	%	44	69	72	56
D5-N-EtFOSAA (surr.)	1	%	116	118	130	101
D3-N-MeFOSAA (surr.)	1	%	110	122	124	98
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.87	< 0.01	< 0.01	0.02
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.47	< 0.01	< 0.01	0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.86	< 0.01	< 0.01	0.02
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]6.1	< 0.01	< 0.01	[N09]0.15
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.16	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]2.6	[N09]0.03	[N09]0.01	[N09]0.04
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	0.05	0.01	0.02	< 0.01
13C3-PFBS (surr.)	1	%	107	107	118	125
18O2-PFHxS (surr.)	1	%	137	98	120	125
13C8-PFOS (surr.)	1	%	99	106	123	118
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	< 0.05	< 0.05	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C2-4:2 FTSA (surr.)	1	%	150	112	103	110
13C2-6:2 FTSA (surr.)	1	%	91	98	102	102
13C2-8:2 FTSA (surr.)	1	%	110	120	129	124
13C2-10:2 FTSA (surr.)	1	%	112	94	121	70
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	8.7	0.03	0.01	0.19
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	11.5	2.03	< 0.05	0.21
Sum of PFASs (n=30)*	0.1	ug/L	13	2.0	< 0.1	0.2

Client Sample ID			0445N_MW346_251016	0445N_MW356_251016	0445N_SW374_251015	0445N_SW375_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059161	M25-Oc0059162	M25-Oc0059163	M25-Oc0059164
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 15, 2025	Oct 15, 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	-	0.04	0.04
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
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	%	95	-	76	74
13C5-PFPeA (surr.)	1	%	91	-	92	89
13C5-PFHxA (surr.)	1	%	92	-	98	94
13C4-PFHpA (surr.)	1	%	96	-	100	98
13C8-PFOA (surr.)	1	%	96	-	105	94
13C5-PFNA (surr.)	1	%	106	-	105	98
13C6-PFDA (surr.)	1	%	100	-	82	71
13C2-PFUnDA (surr.)	1	%	101	-	75	56
13C2-PFDoDA (surr.)	1	%	109	-	58	48
13C2-PFTeDA (surr.)	1	%	64	-	22	17
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	%	60	-	65	58
D3-N-MeFOSA (surr.)	1	%	45	-	56	42
D5-N-EtFOSA (surr.)	1	%	[J-]41	-	172	[J-]41
D7-N-MeFOSE (surr.)	1	%	43	-	32	24
D9-N-EtFOSE (surr.)	1	%	53	-	35	26
D5-N-EtFOSAA (surr.)	1	%	133	-	88	65
D3-N-MeFOSAA (surr.)	1	%	116	-	90	71
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]0.02	-	[N09]0.03	[N09]0.03
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	-	[N09]0.09	[N09]0.08
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	0.02	-	< 0.01	< 0.01

Client Sample ID			0445N_MW346_251016	0445N_MW356_251016	0445N_SW374_251015	0445N_SW375_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059161	M25-Oc0059162	M25-Oc0059163	M25-Oc0059164
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	99	-	109	105
18O2-PFHxS (surr.)	1	%	100	-	103	98
13C8-PFOS (surr.)	1	%	102	-	96	84
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	%	101	-	107	102
13C2-6:2 FTSA (surr.)	1	%	85	-	105	99
13C2-8:2 FTSA (surr.)	1	%	125	-	108	95
13C2-10:2 FTSA (surr.)	1	%	97	-	57	44
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.04	-	0.12	0.11
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	< 0.05	-	0.17	0.15
Sum of PFASs (n=30)*	0.1	ug/L	< 0.1	-	0.2	0.2
PFASs Summations						
Sum (PFHxS + PFOS)*	0.001	ug/L	-	< 0.001	-	-
Sum of PFASs (n=30)*	0.005	ug/L	-	< 0.005	-	-
Sum of WA DWER PFAS (n=10)*	0.005	ug/L	-	< 0.005	-	-
Perfluoroalkyl sulfonamido substances- Trace						
Perfluorooctane sulfonamide (FOSA)[N11]	0.005	ug/L	-	< 0.005	-	-
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)[N11]	0.005	ug/L	-	< 0.005	-	-
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)[N11]	0.005	ug/L	-	< 0.005	-	-
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)[N11]	0.005	ug/L	-	< 0.005	-	-
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)[N11]	0.005	ug/L	-	< 0.005	-	-
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)[N11]	0.005	ug/L	-	< 0.005	-	-
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)[N11]	0.005	ug/L	-	< 0.005	-	-
13C8-FOSA (surr.)	1	%	-	97	-	-
D3-N-MeFOSA (surr.)	1	%	-	143	-	-
D5-N-EtFOSA (surr.)	1	%	-	[N09]169	-	-
D7-N-MeFOSE (surr.)	1	%	-	100	-	-
D9-N-EtFOSE (surr.)	1	%	-	55	-	-
D5-N-EtFOSAA (surr.)	1	%	-	69	-	-
D3-N-MeFOSAA (surr.)	1	%	-	106	-	-
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorobutanoic acid (PFBA)[N11]	0.005	ug/L	-	< 0.005	-	-
Perfluoropentanoic acid (PFPeA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorohexanoic acid (PFHxA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluoroheptanoic acid (PFHpA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorooctanoic acid (PFOA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorononanoic acid (PFNA)[N11]	0.001	ug/L	-	< 0.001	-	-

Client Sample ID			0445N_MW346_251016	0445N_MW356_251016	0445N_SW374_251015	0445N_SW375_251015
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059161	M25-Oc0059162	M25-Oc0059163	M25-Oc0059164
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 15, 2025	Oct 15, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs) - Trace						
Perfluorodecanoic acid (PFDA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorotridecanoic acid (PFTrDA)[N15]	0.001	ug/L	-	< 0.001	-	-
Perfluoroundecanoic acid (PFUnDA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorododecanoic acid (PFDoDA)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorotetradecanoic acid (PFTeDA)[N11]	0.001	ug/L	-	< 0.001	-	-
13C4-PFBA (surr.)	1	%	-	58	-	-
13C5-PFPeA (surr.)	1	%	-	71	-	-
13C5-PFHxA (surr.)	1	%	-	85	-	-
13C4-PFHpA (surr.)	1	%	-	92	-	-
13C8-PFOA (surr.)	1	%	-	94	-	-
13C5-PFNA (surr.)	1	%	-	90	-	-
13C6-PFDA (surr.)	1	%	-	133	-	-
13C2-PFUnDA (surr.)	1	%	-	54	-	-
13C2-PFDoDA (surr.)	1	%	-	83	-	-
13C2-PFTeDA (surr.)	1	%	-	61	-	-
Perfluoroalkyl sulfonic acids (PFSAs)- Trace						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorononanesulfonic acid (PFNS)[N15]	0.001	ug/L	-	< 0.001	-	-
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.001	ug/L	-	< 0.001	-	-
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.001	ug/L	-	< 0.001	-	-
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.001	ug/L	-	< 0.001	-	-
Perfluorooctanesulfonic acid (PFOS)[N11]	0.001	ug/L	-	< 0.001	-	-
Perfluorodecanesulfonic acid (PFDS)[N15]	0.001	ug/L	-	< 0.001	-	-
13C3-PFBS (surr.)	1	%	-	91	-	-
18O2-PFHxS (surr.)	1	%	-	86	-	-
13C8-PFOS (surr.)	1	%	-	52	-	-
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.001	ug/L	-	< 0.001	-	-
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.005	ug/L	-	< 0.005	-	-
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.001	ug/L	-	< 0.001	-	-
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)[N11]	0.001	ug/L	-	< 0.001	-	-
13C2-4:2 FTSA (surr.)	1	%	-	112	-	-
13C2-6:2 FTSA (surr.)	1	%	-	141	-	-
13C2-8:2 FTSA (surr.)	1	%	-	106	-	-
13C2-10:2 FTSA (surr.)	1	%	-	86	-	-

Client Sample ID			0445S_MW051_251016	0445S_MW406_251016	0445S_MW304_251017	0445S_MW305_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059165	M25-Oc0059166	M25-Oc0059167	M25-Oc0059168
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.11	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.14	< 0.01	< 0.01	< 0.01
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.26	< 0.01	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.04	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.07	< 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	%	98	94	78	103
13C5-PFPeA (surr.)	1	%	91	94	95	118
13C5-PFHxA (surr.)	1	%	97	101	102	134
13C4-PFHpA (surr.)	1	%	102	105	110	136
13C8-PFOA (surr.)	1	%	96	102	113	134
13C5-PFNA (surr.)	1	%	101	104	119	144
13C6-PFDA (surr.)	1	%	64	77	92	125
13C2-PFUnDA (surr.)	1	%	48	66	104	141
13C2-PFDoDA (surr.)	1	%	33	53	101	120
13C2-PFTeDA (surr.)	1	%	13	23	63	41
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	0.07	< 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	%	62	56	63	89
D3-N-MeFOSA (surr.)	1	%	40	47	63	96
D5-N-EtFOSA (surr.)	1	%	[J-]35	[J-]37	53	[J+]152
D7-N-MeFOSE (surr.)	1	%	25	37	53	75
D9-N-EtFOSE (surr.)	1	%	27	47	72	101
D5-N-EtFOSAA (surr.)	1	%	57	90	112	146
D3-N-MeFOSAA (surr.)	1	%	75	87	115	140
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.11	< 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	0.06	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.06	< 0.01	< 0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.47	[N09]< 0.01	[N09]0.07	< 0.01
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.04	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]2.4	[N09]0.03	[N09]0.88	0.01
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445S_MW051_251016	0445S_MW406_251016	0445S_MW304_251017	0445S_MW305_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059165	M25-Oc0059166	M25-Oc0059167	M25-Oc0059168
Date Sampled			Oct 16, 2025	Oct 16, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	110	113	114	134
18O2-PFHxS (surr.)	1	%	104	106	120	148
13C8-PFOS (surr.)	1	%	84	91	108	137
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	< 0.05
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	%	102	94	91	100
13C2-6:2 FTSA (surr.)	1	%	83	86	89	113
13C2-8:2 FTSA (surr.)	1	%	94	104	118	149
13C2-10:2 FTSA (surr.)	1	%	32	54	91	96
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	2.87	0.03	0.95	0.01
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	3.6	< 0.05	0.95	< 0.05
Sum of PFASs (n=30)*	0.1	ug/L	3.9	< 0.1	1.0	< 0.1

Client Sample ID			0445S_MW307_251017	0445S_MW311_251017	0445S_MW312_251017	0445S_MW315_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059169	M25-Oc0059170	M25-Oc0059171	M25-Oc0059172
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	5.5	< 0.05	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	17	< 0.01	< 0.01	0.03
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	42	0.02	0.02	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	8.0	< 0.01	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	10	0.01	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.16	< 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	%	117	27	76	85
13C5-PFPeA (surr.)	1	%	133	80	81	91
13C5-PFHxA (surr.)	1	%	124	87	91	101
13C4-PFHpA (surr.)	1	%	129	89	95	109
13C8-PFOA (surr.)	1	%	116	90	90	107
13C5-PFNA (surr.)	1	%	63	99	99	116
13C6-PFDA (surr.)	1	%	50	70	71	94
13C2-PFUnDA (surr.)	1	%	92	75	80	104
13C2-PFDoDA (surr.)	1	%	85	77	82	91
13C2-PFTeDA (surr.)	1	%	48	89	67	47

Client Sample ID			0445S_MW307_251017	0445S_MW311_251017	0445S_MW312_251017	0445S_MW315_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059169	M25-Oc0059170	M25-Oc0059171	M25-Oc0059172
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
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	< 0.2	< 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	%	64	50	56	68
D3-N-MeFOSA (surr.)	1	%	53	38	49	56
D5-N-EtFOSA (surr.)	1	%	97	182	[J-]44	[J-]46
D7-N-MeFOSE (surr.)	1	%	51	31	39	53
D9-N-EtFOSE (surr.)	1	%	67	41	52	70
D5-N-EtFOSAA (surr.)	1	%	98	81	90	109
D3-N-MeFOSAA (surr.)	1	%	102	81	93	110
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	30	< 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	13	< 0.01	< 0.01	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	26	< 0.01	0.01	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]140	[N09]0.09	[N09]0.09	[N09]0.02
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	10	< 0.01	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]30	[N09]0.06	[N09]0.03	[N09]0.03
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	118	92	96	110
18O2-PFHxS (surr.)	1	%	118	94	103	113
13C8-PFOS (surr.)	1	%	144	89	91	107
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)						
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)[N11]	0.01	ug/L	0.23	< 0.01	< 0.01	< 0.01
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)[N11]	0.05	ug/L	14	< 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	%	70	71	82	97
13C2-6:2 FTSA (surr.)	1	%	46	71	79	94
13C2-8:2 FTSA (surr.)	1	%	59	85	98	126
13C2-10:2 FTSA (surr.)	1	%	79	69	75	88
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	170	0.15	0.12	0.05
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	296.5	0.18	0.15	0.08
Sum of PFASs (n=30)*	0.1	ug/L	350	0.2	0.2	< 0.1

Client Sample ID			0445S_MW317_251017	0445S_MW321_251016	0445S_MW323_251017	0445S_MW329_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059173	M25-Oc0059174	M25-Oc0059175	M25-Oc0059176
Date Sampled			Oct 17, 2025	Oct 16, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl carboxylic acids (PFCAs)						
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	< 0.05	0.28	< 0.05	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	1.6	0.94	< 0.01	0.17
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	< 0.01	6.7	< 0.01	< 0.01
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	1.1	< 0.01	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	8.9	< 0.01	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	< 0.01	1.00	< 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	%	52	115	73	100
13C5-PFPeA (surr.)	1	%	73	90	85	55
13C5-PFHxA (surr.)	1	%	94	92	93	94
13C4-PFHpA (surr.)	1	%	107	99	97	102
13C8-PFOA (surr.)	1	%	109	92	97	109
13C5-PFNA (surr.)	1	%	118	52	111	100
13C6-PFDA (surr.)	1	%	82	27	91	114
13C2-PFUnDA (surr.)	1	%	77	70	101	115
13C2-PFDoDA (surr.)	1	%	70	87	92	114
13C2-PFTeDA (surr.)	1	%	48	67	41	139
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	%	65	46	57	86
D3-N-MeFOSA (surr.)	1	%	30	42	51	96
D5-N-EtFOSA (surr.)	1	%	[J-]146	[J-]42	[J-]38	106
D7-N-MeFOSE (surr.)	1	%	23	38	44	92
D9-N-EtFOSE (surr.)	1	%	27	53	62	87
D5-N-EtFOSAA (surr.)	1	%	87	98	116	86
D3-N-MeFOSAA (surr.)	1	%	116	94	106	97
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	1.6	< 0.01	0.14
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	[R16]< 0.5	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.01	0.61	< 0.01	0.06
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	3.5	< 0.01	0.07
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.11	[N09]140	[N09]0.01	[N09]0.30
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.03	33	< 0.01	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]1.1	[N09]540	[N09]0.02	[N09]0.05
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01

Client Sample ID			0445S_MW317_251017	0445S_MW321_251016	0445S_MW323_251017	0445S_MW329_251017
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059173	M25-Oc0059174	M25-Oc0059175	M25-Oc0059176
Date Sampled			Oct 17, 2025	Oct 16, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit				
Perfluoroalkyl sulfonic acids (PFSAs)						
13C3-PFBS (surr.)	1	%	100	107	101	90
18O2-PFHxS (surr.)	1	%	99	80	127	103
13C8-PFOS (surr.)	1	%	93	99	139	107
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	0.94	< 0.05	< 0.05
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)[N11]	0.01	ug/L	< 0.01	0.62	< 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	%	162	99	81	149
13C2-6:2 FTSA (surr.)	1	%	161	52	89	118
13C2-8:2 FTSA (surr.)	1	%	128	85	115	101
13C2-10:2 FTSA (surr.)	1	%	62	68	77	96
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	1.21	680	0.03	0.35
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	2.81	701.08	< 0.05	0.66
Sum of PFASs (n=30)*	0.1	ug/L	2.9	740	< 0.1	0.8

Client Sample ID			0445S_MW416_251016	0445S_SW323_251017	0445S_SW326_251017	0445S_SW338_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059177	M25-Oc0059178	M25-Oc0059179	M25-Oc0059180
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 17, 2025	Oct 16, 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	0.07	0.07	0.04
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.03	0.08	0.05	0.15
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	< 0.01	0.02	0.02	0.02
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	< 0.01	0.04	0.03	0.05
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	%	100	101	98	16
13C5-PFPeA (surr.)	1	%	121	96	94	93
13C5-PFHxA (surr.)	1	%	130	108	103	116
13C4-PFHpA (surr.)	1	%	129	114	104	112
13C8-PFOA (surr.)	1	%	117	112	105	115
13C5-PFNA (surr.)	1	%	122	109	92	114
13C6-PFDA (surr.)	1	%	133	108	99	128
13C2-PFUnDA (surr.)	1	%	143	112	83	139
13C2-PFDoDA (surr.)	1	%	139	106	73	130
13C2-PFTeDA (surr.)	1	%	128	125	104	115

Client Sample ID			0445S_MW416_251016	0445S_SW323_251017	0445S_SW326_251017	0445S_SW338_251016
Sample Matrix			Water	Water	Water	Water
Eurofins Sample No.			M25-Oc0059177	M25-Oc0059178	M25-Oc0059179	M25-Oc0059180
Date Sampled			Oct 16, 2025	Oct 17, 2025	Oct 17, 2025	Oct 16, 2025
Test/Reference	LOR	Unit				
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	%	90	88	66	126
D3-N-MeFOSA (surr.)	1	%	90	84	68	69
D5-N-EtFOSA (surr.)	1	%	102	90	70	65
D7-N-MeFOSE (surr.)	1	%	94	70	57	90
D9-N-EtFOSE (surr.)	1	%	95	63	56	82
D5-N-EtFOSAA (surr.)	1	%	104	78	64	104
D3-N-MeFOSAA (surr.)	1	%	100	91	82	109
Perfluoroalkyl sulfonic acids (PFSAs)						
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	< 0.01	0.03	0.01	0.04
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	0.02
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	< 0.01	0.02	0.02	0.04
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.13	[N09]0.28	[N09]0.18	[N09]0.33
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.02	0.02	< 0.01	0.02
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]0.74	[N09]1.4	[N09]0.75	[N09]1.1
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01	< 0.01
13C3-PFBS (surr.)	1	%	116	102	105	108
18O2-PFHxS (surr.)	1	%	104	103	96	100
13C8-PFOS (surr.)	1	%	111	99	85	107
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	0.20	< 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	%	199	135	148	127
13C2-6:2 FTSA (surr.)	1	%	143	135	107	137
13C2-8:2 FTSA (surr.)	1	%	137	110	86	125
13C2-10:2 FTSA (surr.)	1	%	130	97	59	110
PFASs Summations						
Sum (PFHxS + PFOS)*	0.01	ug/L	0.87	1.68	0.93	1.43
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	1.1	1.92	1.11	1.73
Sum of PFASs (n=30)*	0.1	ug/L	1.1	2.0	1.1	1.8

Client Sample ID			0445S_SW346_251017	0445S_SW349_251017	0445S_SW355_251017
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M25-Oc0059181	M25-Oc0059182	M25-Oc0059183
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit			
Perfluoroalkyl carboxylic acids (PFCAs)					
Perfluorobutanoic acid (PFBA)[N11]	0.05	ug/L	0.07	0.06	< 0.05
Perfluoropentanoic acid (PFPeA)[N11]	0.01	ug/L	0.10	0.10	0.03
Perfluorohexanoic acid (PFHxA)[N11]	0.01	ug/L	0.13	0.12	0.02
Perfluoroheptanoic acid (PFHpA)[N11]	0.01	ug/L	0.05	0.04	< 0.01
Perfluorooctanoic acid (PFOA)[N11]	0.01	ug/L	0.08	0.07	< 0.01
Perfluorononanoic acid (PFNA)[N11]	0.01	ug/L	0.03	0.02	< 0.01
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	%	101	99	98
13C5-PFPeA (surr.)	1	%	87	75	83
13C5-PFHxA (surr.)	1	%	90	87	98
13C4-PFHpA (surr.)	1	%	99	96	102
13C8-PFOA (surr.)	1	%	102	101	101
13C5-PFNA (surr.)	1	%	92	90	94
13C6-PFDA (surr.)	1	%	89	100	96
13C2-PFUnDA (surr.)	1	%	75	92	72
13C2-PFDoDA (surr.)	1	%	59	82	51
13C2-PFTeDA (surr.)	1	%	[J-]37	64	[J-]44
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	%	84	104	80
D3-N-MeFOSA (surr.)	1	%	91	91	73
D5-N-EtFOSA (surr.)	1	%	101	94	78
D7-N-MeFOSE (surr.)	1	%	65	79	60
D9-N-EtFOSE (surr.)	1	%	60	71	55
D5-N-EtFOSAA (surr.)	1	%	58	81	62
D3-N-MeFOSAA (surr.)	1	%	71	85	73
Perfluoroalkyl sulfonic acids (PFSAs)					
Perfluorobutanesulfonic acid (PFBS)[N11]	0.01	ug/L	0.06	0.06	< 0.01
Perfluorononanesulfonic acid (PFNS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01
Perfluoropropanesulfonic acid (PFPrS)[N15]	0.01	ug/L	0.03	0.04	< 0.01
Perfluoropentanesulfonic acid (PFPeS)[N15]	0.01	ug/L	0.04	0.04	< 0.01
Perfluorohexanesulfonic acid (PFHxS)[N11]	0.01	ug/L	[N09]0.36	[N09]0.32	[N09]0.04
Perfluoroheptanesulfonic acid (PFHpS)[N15]	0.01	ug/L	0.02	0.02	< 0.01
Perfluorooctanesulfonic acid (PFOS)[N11]	0.01	ug/L	[N09]1.3	[N09]1.2	[N09]0.13
Perfluorodecanesulfonic acid (PFDS)[N15]	0.01	ug/L	< 0.01	< 0.01	< 0.01

Client Sample ID			0445S_SW346_251017	0445S_SW349_251017	0445S_SW355_251017
Sample Matrix			Water	Water	Water
Eurofins Sample No.			M25-Oc0059181	M25-Oc0059182	M25-Oc0059183
Date Sampled			Oct 17, 2025	Oct 17, 2025	Oct 17, 2025
Test/Reference	LOR	Unit			
Perfluoroalkyl sulfonic acids (PFSAs)					
13C3-PFBS (surr.)	1	%	93	86	97
18O2-PFHxS (surr.)	1	%	93	92	90
13C8-PFOS (surr.)	1	%	88	88	87
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	%	147	132	139
13C2-6:2 FTSA (surr.)	1	%	[J+]156	[J+]154	121
13C2-8:2 FTSA (surr.)	1	%	109	118	87
13C2-10:2 FTSA (surr.)	1	%	58	69	44
PFASs Summations					
Sum (PFHxS + PFOS)*	0.01	ug/L	1.66	1.52	0.17
Sum of WA DWER PFAS (n=10)*	0.05	ug/L	2.15	1.97	0.22
Sum of PFASs (n=30)*	0.1	ug/L	2.3	2.1	0.2

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Per- and Polyfluoroalkyl Substances (PFASs)			
Perfluoroalkyl carboxylic acids (PFCAs)	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonamido substances	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Perfluoroalkyl sulfonic acids (PFSAs)	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS)			
Per- and Polyfluoroalkyl Substances (PFASs) - Trace			
Perfluoroalkyl sulfonamido substances- Trace	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl carboxylic acids (PFCAs) - Trace	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
Perfluoroalkyl sulfonic acids (PFSAs)- Trace	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace	Melbourne	Oct 21, 2025	28 Days
- Method: LTM-ORG-2100 Per- and Polyfluoroalkyl Substances (PFAS) - low level			

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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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Project ID: 61395

Order No.:
Report #: 1282063
Phone: 03 9642 0599
Fax:

Received: Oct 20, 2025 5:29 PM
Due: Oct 27, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
External Laboratory								X		
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**					
1	0445_QC201_251015	Oct 15, 2025		Water	M25-Oc0059058			X		
2	0445_QC201_251016	Oct 16, 2025		Water	M25-Oc0059059			X		
3	0445_QC201_251017	Oct 17, 2025		Water	M25-Oc0059060			X		
4	0445_QC202_251013	Oct 13, 2025		Water	M25-Oc0059061			X		
5	0445_QC202_251015	Oct 15, 2025		Water	M25-Oc0059062			X		
6	0445_QC202_251016	Oct 16, 2025		Water	M25-Oc0059063			X		
7	0445_QC202_251017	Oct 17, 2025		Water	M25-Oc0059064			X		
8	0445_QC203_251015	Oct 15, 2025		Water	M25-Oc0059065			X		
9	0445_QC203_	Oct 16, 2025		Water	M25-Oc0059066			X		

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Company Name: JBS & G Australia (VIC) P/L
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Project Name: Bandiana OMP October 2025
Project ID: 61395

Order No.:
Report #: 1282063
Phone: 03 9642 0599
Fax:

Received: Oct 20, 2025 5:29 PM
Due: Oct 27, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

	Sample Detail					CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
	251016									
10	0445_QC203_251017	Oct 17, 2025		Water	M25-Oc0059067			X		
11	0445_QC204_251015	Oct 15, 2025		Water	M25-Oc0059068			X		
12	0445_QC204_251016	Oct 16, 2025		Water	M25-Oc0059069			X		
13	0445_MW302_251016	Oct 16, 2025		Water	M25-Oc0059070				X	
14	0445_MW303_251016	Oct 16, 2025		Water	M25-Oc0059071				X	
15	0445_MW313_251016	Oct 16, 2025		Water	M25-Oc0059072				X	
16	0445_MW357_251016	Oct 16, 2025		Water	M25-Oc0059073				X	
17	0445_MW360_251016	Oct 16, 2025		Water	M25-Oc0059074				X	
18	0445_MW361_251016	Oct 16, 2025		Water	M25-Oc0059075				X	
19	0445_MW447	Oct 17, 2025		Water	M25-Oc0059081				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
19	0445_MW447_251017	Oct 17, 2025		Water	M25-Oc0059081					
20	0445_QC101_251015	Oct 15, 2025		Water	M25-Oc0059083				X	
21	0445_QC101_251016	Oct 16, 2025		Water	M25-Oc0059084				X	
22	0445_QC101_251017	Oct 17, 2025		Water	M25-Oc0059085				X	
23	0445_QC101_251013	Oct 13, 2025		Water	M25-Oc0059086				X	
24	0445_QC102_251015	Oct 15, 2025		Water	M25-Oc0059087				X	
25	0445_QC102_251016	Oct 16, 2025		Water	M25-Oc0059088				X	
26	0445_QC102_251017	Oct 17, 2025		Water	M25-Oc0059089				X	
27	0445_QC103_251015	Oct 15, 2025		Water	M25-Oc0059090				X	
28	0445_QC103_251016	Oct 16, 2025		Water	M25-Oc0059091				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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Melbourne Laboratory - NATA # 1261 Site # 1254						x	x		x	x
29	0445_QC301_251013	Oct 13, 2025		Water	M25-Oc0059092				x	
30	0445_QC301_251014	Oct 15, 2025		Water	M25-Oc0059093				x	
31	0445_QC301_251015	Oct 15, 2025		Water	M25-Oc0059094				x	
32	0445_QC301_251016	Oct 16, 2025		Water	M25-Oc0059095				x	
33	0445_QC301_251017	Oct 17, 2025		Water	M25-Oc0059096				x	
34	0445_QC302_251014	Oct 14, 2025		Water	M25-Oc0059097				x	
35	0445_QC302_251017	Oct 17, 2025		Water	M25-Oc0059098				x	
36	0445_QC401_251013	Oct 13, 2025		Water	M25-Oc0059099				x	
37	0445_QC401_251014	Oct 14, 2025		Water	M25-Oc0059100				x	
38	0445_QC401_251015	Oct 15, 2025		Water	M25-Oc0059101				x	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
39	0445_QC401_251016	Oct 16, 2025		Water	M25-Oc0059102				X	
40	0445_QC401_251017	Oct 17, 2025		Water	M25-Oc0059103				X	
41	0445_QC502_251017	Oct 17, 2025		Water	M25-Oc0059104				X	
42	0445_QC501_251017	Oct 17, 2025		Water	M25-Oc0059105				X	
43	0445_QC503_251017	Oct 17, 2025		Water	M25-Oc0059106				X	
44	0445_QC504_251017	Oct 17, 2025		Water	M25-Oc0059107				X	
45	0445_QC505_251017	Oct 17, 2025		Water	M25-Oc0059108				X	
46	0445_QC506_251017	Oct 17, 2025		Water	M25-Oc0059109				X	
47	0445_SW390_131013	Oct 17, 2025		Water	M25-Oc0059110					X
48	0445_SW393_251017	Oct 17, 2025		Water	M25-Oc0059111				X	

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49	0445_SW395_251015	Oct 15, 2025		Water	M25-Oc0059112				X	
50	0445_SW398_251015	Oct 15, 2025		Water	M25-Oc0059115				X	
51	0445_SW403_251013	Oct 13, 2025		Water	M25-Oc0059118				X	
52	0445_SW404_251013	Oct 13, 2025		Water	M25-Oc0059119				X	
53	0445_SW405_251013	Oct 13, 2025		Water	M25-Oc0059120				X	
54	0445_SW409_251013	Oct 13, 2025		Water	M25-Oc0059121				X	
55	0445_SW412_251013	Oct 13, 2025		Water	M25-Oc0059122				X	
56	0445_SW416_251013	Oct 13, 2025		Water	M25-Oc0059123					X
57	0445_SW427_251015	Oct 15, 2025		Water	M25-Oc0059124				X	
58	0445_SW430_251015	Oct 15, 2025		Water	M25-Oc0059125				X	

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NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261	NATA# 1261
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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
59	0445_SW431_251015	Oct 15, 2025		Water	M25-Oc0059126				X	
60	0445_SW432_251015	Oct 15, 2025		Water	M25-Oc0059127				X	
61	0445_SW434_251015	Oct 15, 2025		Water	M25-Oc0059128				X	
62	0445_SW462_251013	Oct 13, 2025		Water	M25-Oc0059129				X	
63	0445_SW470_251015	Oct 15, 2025		Water	M25-Oc0059130				X	
64	0445_SW471_251015	Oct 15, 2025		Water	M25-Oc0059131				X	
65	0445E_MW009_251015	Oct 15, 2025		Water	M25-Oc0059133				X	
66	0445E_MW012_251016	Oct 16, 2025		Water	M25-Oc0059134				X	
67	0445E_MW016_251015	Oct 15, 2025		Water	M25-Oc0059135				X	
68	0445E_MW018_251016	Oct 16, 2025		Water	M25-Oc0059136				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
69	0445E_MW020_251014	Oct 14, 2025		Water	M25-Oc0059137				X	
70	0445E_MW029_251016	Oct 16, 2025		Water	M25-Oc0059138				X	
71	0445E_MW034_251016	Oct 16, 2025		Water	M25-Oc0059139				X	
72	0445E_MW035_251015	Oct 15, 2025		Water	M25-Oc0059140				X	
73	0445E_MW042_251015	Oct 15, 2025		Water	M25-Oc0059141				X	
74	0445E_MW043_251015	Oct 15, 2025		Water	M25-Oc0059142				X	
75	0445E_MW046_D_251016	Oct 16, 2025		Water	M25-Oc0059143				X	
76	0445E_MW046_I_251016	Oct 16, 2025		Water	M25-Oc0059144				X	
77	0445E_MW052_251016	Oct 16, 2025		Water	M25-Oc0059145				X	
78	0445E_MW319_251016	Oct 16, 2025		Water	M25-Oc0059146				X	

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79	0445E_MW350_D_251016	Oct 16, 2025		Water	M25-Oc0059147				X	
80	0445E_MW350_S_251016	Oct 16, 2025		Water	M25-Oc0059148				X	
81	0445E_MW351_251016	Oct 16, 2025		Water	M25-Oc0059149					X
82	0445E_MW352_251016	Oct 16, 2025		Water	M25-Oc0059150					X
83	0445E_MW354_251016	Oct 16, 2025		Water	M25-Oc0059151				X	
84	0445E_MW403_251016	Oct 16, 2025		Water	M25-Oc0059152				X	
85	0445E_MW404_251016	Oct 16, 2025		Water	M25-Oc0059153				X	
86	0445E_SW382_251016	Oct 16, 2025		Water	M25-Oc0059154				X	
87	0445E_SW387_251015	Oct 15, 2025		Water	M25-Oc0059155				X	
88	0445E_SW388_251015	Oct 15, 2025		Water	M25-Oc0059156				X	

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Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
89	0445N_MW342_251016	Oct 16, 2025		Water	M25-Oc0059157				X	
90	0445N_MW343_251015	Oct 15, 2025		Water	M25-Oc0059158				X	
91	0445N_MW344_251016	Oct 16, 2025		Water	M25-Oc0059159				X	
92	0445N_MW345_251016	Oct 16, 2025		Water	M25-Oc0059160				X	
93	0445N_MW346_251016	Oct 16, 2025		Water	M25-Oc0059161				X	
94	0445N_MW356_251016	Oct 16, 2025		Water	M25-Oc0059162					X
95	0445N_SW374_251015	Oct 15, 2025		Water	M25-Oc0059163				X	
96	0445N_SW375_251015	Oct 15, 2025		Water	M25-Oc0059164				X	
97	0445S_MW051_251016	Oct 16, 2025		Water	M25-Oc0059165				X	
98	0445S_MW406_251016	Oct 16, 2025		Water	M25-Oc0059166				X	

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Address: PO Box 3166
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Project Name: Bandiana OMP October 2025
Project ID: 61395

Order No.:
Report #: 1282063
Phone: 03 9642 0599
Fax:

Received: Oct 20, 2025 5:29 PM
Due: Oct 27, 2025
Priority: 5 Day
Contact Name: [redacted]

Eurofins Analytical Services Manager : [redacted]

Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
99	0445S_MW304_251017	Oct 17, 2025		Water	M25-Oc0059167				X	
100	0445S_MW305_251017	Oct 17, 2025		Water	M25-Oc0059168				X	
101	0445S_MW307_251017	Oct 17, 2025		Water	M25-Oc0059169				X	
102	0445S_MW311_251017	Oct 17, 2025		Water	M25-Oc0059170				X	
103	0445S_MW312_251017	Oct 17, 2025		Water	M25-Oc0059171				X	
104	0445S_MW315_251017	Oct 17, 2025		Water	M25-Oc0059172				X	
105	0445S_MW317_251017	Oct 17, 2025		Water	M25-Oc0059173				X	
106	0445S_MW321_251016	Oct 16, 2025		Water	M25-Oc0059174				X	
107	0445S_MW323_251017	Oct 17, 2025		Water	M25-Oc0059175				X	
108	0445S_MW329_251017	Oct 17, 2025		Water	M25-Oc0059176				X	

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Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
109	0445S_MW416_251016	Oct 16, 2025		Water	M25-Oc0059177				X	
110	0445S_SW323_251017	Oct 17, 2025		Water	M25-Oc0059178				X	
111	0445S_SW326_251017	Oct 17, 2025		Water	M25-Oc0059179				X	
112	0445S_SW338_251016	Oct 16, 2025		Water	M25-Oc0059180				X	
113	0445S_SW346_251017	Oct 17, 2025		Water	M25-Oc0059181				X	
114	0445S_SW349_251017	Oct 17, 2025		Water	M25-Oc0059182				X	
115	0445S_SW355_251017	Oct 17, 2025		Water	M25-Oc0059183				X	
116	CANCEL	Oct 17, 2025		Water	M25-Oc0059184	X				
117	0445_QC103_251017	Oct 17, 2025		Water	M25-Oc0059185		X			
118	0445_QC104_251015	Oct 15, 2025		Water	M25-Oc0059186		X			
119	0445_QC104_	Oct 16, 2025		Water	M25-Oc0059187		X			

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Sample Detail						CANCELLED*	HOLD*	Split - External Lab*	Per- and Polyfluoroalkyl Substances (PFASs)	Per- and Polyfluoroalkyl Substances (PFASs) - Trace
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X		X	X
119	0445_QC104_251016	Oct 16, 2025		Water	M25-Oc0059187					
120	0445_QC302_251015	Oct 15, 2025		Water	M25-Oc0059188		X			
121	0445_QC302_251016	Oct 16, 2025		Water	M25-Oc0059189		X			
122	CANCEL	Oct 15, 2025		Water	M25-Oc0059190	X				
123	CANCEL	Oct 15, 2025		Water	M25-Oc0059191	X				
124	CANCEL	Oct 15, 2025		Water	M25-Oc0059192	X				
Test Counts						4	5	12	98	5

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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	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	
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	

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							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.005			0.005	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.005			0.005	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.005			0.005	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.005			0.005	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.005			0.005	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.005			0.005	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	ug/L	< 0.005			0.005	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.005			0.005	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.001			0.001	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanoic acid (PFOA)	ug/L	< 0.001			0.001	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.001			0.001	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.001			0.001	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.001			0.001	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.001			0.001	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.001			0.001	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.001			0.001	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	ug/L	< 0.001			0.001	Pass	
Perfluorononanesulfonic acid (PFNS)	ug/L	< 0.001			0.001	Pass	
Perfluoropropanesulfonic acid (PFPrS)	ug/L	< 0.001			0.001	Pass	
Perfluoropentanesulfonic acid (PFPeS)	ug/L	< 0.001			0.001	Pass	
Perfluorohexanesulfonic acid (PFHxS)	ug/L	< 0.001			0.001	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	ug/L	< 0.001			0.001	Pass	
Perfluorooctanesulfonic acid (PFOS)	ug/L	< 0.001			0.001	Pass	
Perfluorodecanesulfonic acid (PFDS)	ug/L	< 0.001			0.001	Pass	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	ug/L	< 0.005			0.005	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.001			0.001	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	ug/L	< 0.001			0.001	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
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	
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							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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							
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	
Method Blank							
Perfluoroalkyl sulfonamido substances							
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
Method Blank							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	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	
Method Blank							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	ug/L	< 0.05			0.05	Pass	
Perfluoropentanoic acid (PFPeA)	ug/L	< 0.01			0.01	Pass	
Perfluorohexanoic acid (PFHxA)	ug/L	< 0.01			0.01	Pass	
Perfluoroheptanoic acid (PFHpA)	ug/L	< 0.01			0.01	Pass	
Perfluorooctanoic acid (PFOA)	ug/L	< 0.01			0.01	Pass	
Perfluorononanoic acid (PFNA)	ug/L	< 0.01			0.01	Pass	
Perfluorodecanoic acid (PFDA)	ug/L	< 0.01			0.01	Pass	
Perfluoroundecanoic acid (PFUnDA)	ug/L	< 0.01			0.01	Pass	
Perfluorododecanoic acid (PFDoDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotridecanoic acid (PFTrDA)	ug/L	< 0.01			0.01	Pass	
Perfluorotetradecanoic acid (PFTeDA)	ug/L	< 0.01			0.01	Pass	
Method Blank							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	ug/L	< 0.05			0.05	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	ug/L	< 0.05			0.05	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	ug/L	< 0.05			0.05	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	ug/L	< 0.05			0.05	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	ug/L	< 0.05			0.05	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	ug/L	< 0.05			0.05	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
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	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	83			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	85			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	81			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	82			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	80			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	91			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	59			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	78			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	97			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	81			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	84			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	86			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	83			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	77			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	77			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	82			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	72			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	90			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	91			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	76			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)	%	90			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	84			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	80			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	85			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	81			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	81			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	79			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	62			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	91			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	82			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	67			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	98			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	94			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	80			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	87			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	80			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	89			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	73			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	98			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	95			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	96			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	83			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	97			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	99			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	100			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	84			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	85			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	87			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	92			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	88			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	91			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	89			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	53			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	87			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctane sulfonamide (FOSA)	%	95			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	95			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	92			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	82			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	84			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	83			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	77			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	97			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	79			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	101			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	77			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	91			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	83			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	90			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	80			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	83			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	78			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	85			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	88			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	84			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	54			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	88			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	79			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	86			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	72			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	78			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	78			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	85			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	72			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	90			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	82			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	83			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorooctanesulfonic acid (PFOS)	%	80			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	78			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	75			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	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	88			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	63			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	84			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	89			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	88			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	91			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	100			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	95			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	58			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	94			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	88			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	99			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	86			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	79			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	92			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	92			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	72			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	93			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	93			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	87			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	76			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	95			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	80			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	80			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	87			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	80			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	80			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorodecanoic acid (PFDA)	%	88			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	84			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	86			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	63			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	89			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	91			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	78			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	75			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	75			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	96			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	83			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	89			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	81			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	87			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	72			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	90			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	92			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	90			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)	%	91			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)	%	88			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	87			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	74			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	86			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	70			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	69			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	70			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	66			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	81			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	76			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	79			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	146			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	96			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	77			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	101			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	83			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	99			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	76			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	75			50-150	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	77			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	83			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	92			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	73			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	83			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	98			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	87			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	65			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	84			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	83			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	87			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	84			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	84			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	97			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	69			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	76			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	83			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	93			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	57			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	74			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	57			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	63			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	86			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	90			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	72			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	102			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	86			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	66			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	96			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	97			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	79			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	93			50-150	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	75			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	81			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	74			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	76			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	73			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	71			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	79			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	75			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	78			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	144			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	70			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	80			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	76			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	102			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	83			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	107			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	77			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	82			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	74			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	91			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	80			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	71			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	81			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	92			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	94			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	76			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	88			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances- Trace							
Perfluorooctane sulfonamide (FOSA)	%	60			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	90			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	69			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	80			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	75			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	70			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	71			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs) - Trace							
Perfluorobutanoic acid (PFBA)	%	69			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	78			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	83			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	89			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	76			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanoic acid (PFNA)	%	72			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	78			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	84			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	76			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	90			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)- Trace							
Perfluorobutanesulfonic acid (PFBS)	%	103			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	69			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	64			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	92			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	96			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	96			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	52			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)- Trace							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	95			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	74			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	92			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	89			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	84			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	91			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	79			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	75			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	82			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	87			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	92			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	55			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	79			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	75			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	60			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	81			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	90			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	71			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	84			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	96			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	88			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	65			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	98			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	100			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	89			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	95			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	76			50-150	Pass	
LCS - % Recovery							

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	89			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	99			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	101			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	74			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	74			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	73			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	77			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	73			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	75			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	92			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	73			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	83			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	148			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	86			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	82			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	75			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	95			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	78			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	106			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	82			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	82			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	75			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	81			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	82			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	68			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	78			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	84			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	88			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	70			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	78			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	79			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	75			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	79			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	73			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	76			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	84			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	69			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	89			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	80			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	78			50-150	Pass	

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorotridecanoic acid (PFTrDA)	%	139			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	79			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	93			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	76			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	128			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	76			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	105			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	77			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	76			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	76			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	90			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	%	84			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	%	72			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	%	79			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	%	91			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	%	91			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	%	65			50-150	Pass	
LCS - % Recovery							
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)							
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	%	80			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl carboxylic acids (PFCAs)							
Perfluorobutanoic acid (PFBA)	%	82			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	%	58			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	%	77			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	%	81			50-150	Pass	
Perfluorooctanoic acid (PFOA)	%	82			50-150	Pass	
Perfluorononanoic acid (PFNA)	%	80			50-150	Pass	
Perfluorodecanoic acid (PFDA)	%	81			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	%	94			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	%	90			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	%	55			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	%	96			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonamido substances							
Perfluorooctane sulfonamide (FOSA)	%	83			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	%	87			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	%	82			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	%	114			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	%	97			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	%	81			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	%	89			50-150	Pass	
LCS - % Recovery							
Perfluoroalkyl sulfonic acids (PFSAs)							
Perfluorobutanesulfonic acid (PFBS)	%	85			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	%	74			50-150	Pass	

Test			Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)			%	69			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)			%	95			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)			%	88			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)			%	81			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)			%	80			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)			%	77			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)			%	74			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)			%	79			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)			%	99			50-150	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0047926	NCP	%	92			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059090	CP	%	73			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059090	CP	%	75			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059090	CP	%	107			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059090	CP	%	82			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059090	CP	%	82			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059090	CP	%	66			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059090	CP	%	65			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059090	CP	%	60			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059090	CP	%	64			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059090	CP	%	56			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059090	CP	%	52			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059090	CP	%	71			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059090	CP	%	64			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059090	CP	%	60			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059090	CP	%	50			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059090	CP	%	57			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059090	CP	%	50			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059090	CP	%	59			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059090	CP	%	122			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059090	CP	%	51			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059090	CP	%	86			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059090	CP	%	127			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059090	CP	%	110			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059090	CP	%	86			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059090	CP	%	83			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059090	CP	%	66			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059090	CP	%	61			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0066409	NCP	%	55			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059111	CP	%	80			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059111	CP	%	56			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059111	CP	%	80			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059111	CP	%	93			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059111	CP	%	96			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059111	CP	%	93			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059111	CP	%	104			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059111	CP	%	109			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059111	CP	%	83			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059111	CP	%	61			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059111	CP	%	83			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059111	CP	%	85			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059111	CP	%	71			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059111	CP	%	79			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059111	CP	%	87			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059111	CP	%	86			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059111	CP	%	80			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059111	CP	%	74			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059111	CP	%	86			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059111	CP	%	61			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059111	CP	%	70			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059111	CP	%	94			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059111	CP	%	89			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059111	CP	%	86			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059111	CP	%	62			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059111	CP	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059111	CP	%	69			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059111	CP	%	70			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059111	CP	%	74			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059121	CP	%	76			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059121	CP	%	80			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059121	CP	%	78			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059121	CP	%	81			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059121	CP	%	79			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059121	CP	%	76			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059121	CP	%	81			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059121	CP	%	81			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059121	CP	%	55			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059121	CP	%	79			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059121	CP	%	83			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059121	CP	%	78			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059121	CP	%	75			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059121	CP	%	72			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059121	CP	%	78			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059121	CP	%	73			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059121	CP	%	74			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059121	CP	%	80			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059121	CP	%	65			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059121	CP	%	68			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059121	CP	%	88			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059121	CP	%	90			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059121	CP	%	87			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059121	CP	%	62			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059121	CP	%	77			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059121	CP	%	75			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059121	CP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059121	CP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059142	CP	%	104			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059142	CP	%	118			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059142	CP	%	90			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059142	CP	%	107			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059142	CP	%	108			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059142	CP	%	77			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059142	CP	%	95			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059142	CP	%	81			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059142	CP	%	87			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059142	CP	%	119			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059142	CP	%	80			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059142	CP	%	98			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059142	CP	%	70			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059142	CP	%	95			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059142	CP	%	76			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059142	CP	%	81			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059142	CP	%	82			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059142	CP	%	103			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059142	CP	%	115			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059142	CP	%	125			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059142	CP	%	102			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059142	CP	%	82			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059142	CP	%	79			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059142	CP	%	96			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059142	CP	%	88			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances- Trace				Result 1					
Perfluorooctane sulfonamide (FOSA)	N25-Oc0064195	NCP	%	90			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	N25-Oc0064195	NCP	%	80			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	N25-Oc0064195	NCP	%	82			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	N25-Oc0064195	NCP	%	115			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	N25-Oc0064195	NCP	%	113			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	N25-Oc0064195	NCP	%	94			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	N25-Oc0064195	NCP	%	104			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs) - Trace				Result 1					
Perfluorobutanoic acid (PFBA)	N25-Oc0064195	NCP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	N25-Oc0064195	NCP	%	124			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	N25-Oc0064195	NCP	%	112			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	N25-Oc0064195	NCP	%	101			50-150	Pass	
Perfluorooctanoic acid (PFOA)	N25-Oc0064195	NCP	%	86			50-150	Pass	
Perfluorononanoic acid (PFNA)	N25-Oc0064195	NCP	%	91			50-150	Pass	
Perfluorodecanoic acid (PFDA)	N25-Oc0064195	NCP	%	96			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	N25-Oc0064195	NCP	%	68			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	N25-Oc0064195	NCP	%	104			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	N25-Oc0064195	NCP	%	121			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	N25-Oc0064195	NCP	%	106			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)- Trace				Result 1					
Perfluorobutanesulfonic acid (PFBS)	N25-Oc0064195	NCP	%	98			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	N25-Oc0064195	NCP	%	131			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	N25-Oc0064195	NCP	%	66			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	N25-Oc0064195	NCP	%	118			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	N25-Oc0064195	NCP	%	98			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	N25-Oc0064195	NCP	%	61			50-150	Pass	
Perfluorooctanesulfonic acid (PFOS)	N25-Oc0064195	NCP	%	117			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	N25-Oc0064195	NCP	%	92			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)	N25-Oc0064195	NCP	%	80			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	N25-Oc0064195	NCP	%	92			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	N25-Oc0064195	NCP	%	107			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	N25-Oc0064195	NCP	%	120			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059154	CP	%	80			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059154	CP	%	81			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059154	CP	%	80			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059154	CP	%	74			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059154	CP	%	76			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059154	CP	%	101			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059154	CP	%	78			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059154	CP	%	64			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059154	CP	%	90			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059154	CP	%	86			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059154	CP	%	52			50-150	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059154	CP	%	58			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059154	CP	%	53			50-150	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059154	CP	%	72			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059154	CP	%	77			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059154	CP	%	73			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059154	CP	%	76			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059154	CP	%	83			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059154	CP	%	86			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059154	CP	%	80			50-150	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059154	CP	%	93			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059154	CP	%	60			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059154	CP	%	85			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059154	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059154	CP	%	76			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059154	CP	%	63			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1					
Perfluorobutanoic acid (PFBA)	M25-Oc0059165	CP	%	93			50-150	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059165	CP	%	80			50-150	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059165	CP	%	78			50-150	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059165	CP	%	71			50-150	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059165	CP	%	88			50-150	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059165	CP	%	81			50-150	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059165	CP	%	97			50-150	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059165	CP	%	80			50-150	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059165	CP	%	73			50-150	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059165	CP	%	109			50-150	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059165	CP	%	75			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonamido substances				Result 1					
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059165	CP	%	96			50-150	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059165	CP	%	76			50-150	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059165	CP	%	80			50-150	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059165	CP	%	84			50-150	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059165	CP	%	71			50-150	Pass	
Spike - % Recovery									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1					
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059165	CP	%	89			50-150	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059165	CP	%	77			50-150	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059165	CP	%	100			50-150	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059165	CP	%	77			50-150	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059165	CP	%	73			50-150	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059165	CP	%	119			50-150	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059165	CP	%	53			50-150	Pass	
Spike - % Recovery									
n:2 Fluorotelomer sulfonic acids (n:2 FTSAs)				Result 1					
1H.1H.2H.2H-perfluorohexanesulfonic acid (4:2 FTSA)	M25-Oc0059165	CP	%	87			50-150	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059165	CP	%	105			50-150	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059165	CP	%	81			50-150	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059165	CP	%	59			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			
Perfluorohexanoic acid (PFHxA)	M25-Oc0060164	NCP	ug/L	1.1	1.1	3.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0060164	NCP	ug/L	0.34	0.35	3.0	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0060164	NCP	ug/L	8.9	8.2	8.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0060164	NCP	ug/L	0.04	0.04	3.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0060164	NCP	ug/L	0.48	0.49	2.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0060164	NCP	ug/L	0.08	0.09	15	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0060164	NCP	ug/L	0.34	0.37	8.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059089	CP	ug/L	0.03	0.04	4.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059089	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059089	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0068702	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0068702	NCP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorodecanoic acid (PFDA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059099	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059099	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059109	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059109	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059120	CP	ug/L	0.03	0.02	47	30%	Fail	Q15
Perfluorohexanoic acid (PFHxA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059120	CP	ug/L	0.06	0.05	14	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059120	CP	ug/L	0.06	0.06	2.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059120	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059120	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0047925	NCP	ug/L	0.01	0.01	3.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0047925	NCP	ug/L	0.11	0.11	3.0	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059131	CP	ug/L	0.09	0.08	21	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059131	CP	ug/L	0.35	0.33	7.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059131	CP	ug/L	0.04	0.04	8.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059131	CP	ug/L	0.07	0.07	3.0	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059131	CP	ug/L	0.68	0.63	7.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059131	CP	ug/L	0.25	0.23	8.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059131	CP	ug/L	0.55	0.56	1.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059131	CP	ug/L	2.2	2.2	1.0	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059131	CP	ug/L	0.07	0.07	4.0	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059131	CP	ug/L	0.81	0.80	1.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059131	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059131	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059141	CP	ug/L	0.17	0.18	5.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059141	CP	ug/L	0.33	0.35	6.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059141	CP	ug/L	1.2	1.2	1.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059141	CP	ug/L	0.18	0.19	6.0	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059141	CP	ug/L	0.41	0.41	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059141	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059141	CP	ug/L	0.59	0.64	7.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059141	CP	ug/L	0.28	0.29	5.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059141	CP	ug/L	0.64	0.73	13	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059141	CP	ug/L	0.41	0.41	1.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059141	CP	ug/L	0.15	0.17	7.0	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059141	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059153	CP	ug/L	1.9	2.0	8.0	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059153	CP	ug/L	3.7	3.7	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059153	CP	ug/L	3.8	3.8	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059153	CP	ug/L	0.04	0.04	3.0	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059153	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059153	CP	ug/L	0.12	0.13	7.0	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059153	CP	ug/L	4.0	4.0	2.0	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059153	CP	ug/L	0.07	0.07	2.0	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059153	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059164	CP	ug/L	0.04	0.03	31	30%	Fail	Q15
Perfluorohexanoic acid (PFHxA)	M25-Oc0059164	CP	ug/L	< 0.01	0.01	8.0	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059164	CP	ug/L	< 0.05	0.06	25	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059164	CP	ug/L	0.03	0.02	10	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059164	CP	ug/L	0.08	0.07	16	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059164	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059164	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059175	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059175	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl carboxylic acids (PFCAs)				Result 1	Result 2	RPD			
Perfluorobutanoic acid (PFBA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Perfluoropentanoic acid (PFPeA)	M25-Oc0059176	CP	ug/L	0.17	0.16	7.0	30%	Pass	
Perfluorohexanoic acid (PFHxA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroheptanoic acid (PFHpA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanoic acid (PFOA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorononanoic acid (PFNA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorodecanoic acid (PFDA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoroundecanoic acid (PFUnDA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorododecanoic acid (PFDoDA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotridecanoic acid (PFTrDA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorotetradecanoic acid (PFTeDA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonamido substances				Result 1	Result 2	RPD			
Perfluorooctane sulfonamide (FOSA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methylperfluoro-1-octane sulfonamide (N-MeFOSA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethylperfluoro-1-octane sulfonamide (N-EtFOSA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-methylperfluoro-1-octane sulfonamido)-ethanol(N-MeFOSE)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
2-(N-ethylperfluoro-1-octane sulfonamido)-ethanol(N-EtFOSE)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-ethyl-perfluorooctanesulfonamidoacetic acid (N-EtFOSAA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
N-methyl-perfluorooctanesulfonamidoacetic acid (N-MeFOSAA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
Duplicate									
Perfluoroalkyl sulfonic acids (PFSAs)				Result 1	Result 2	RPD			
Perfluorobutanesulfonic acid (PFBS)	M25-Oc0059176	CP	ug/L	0.14	0.13	3.0	30%	Pass	
Perfluorononanesulfonic acid (PFNS)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluoropropanesulfonic acid (PFPrS)	M25-Oc0059176	CP	ug/L	0.06	0.06	2.0	30%	Pass	
Perfluoropentanesulfonic acid (PFPeS)	M25-Oc0059176	CP	ug/L	0.07	0.08	4.0	30%	Pass	
Perfluorohexanesulfonic acid (PFHxS)	M25-Oc0059176	CP	ug/L	0.30	0.30	<1	30%	Pass	
Perfluoroheptanesulfonic acid (PFHpS)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
Perfluorooctanesulfonic acid (PFOS)	M25-Oc0059176	CP	ug/L	0.05	0.05	<1	30%	Pass	
Perfluorodecanesulfonic acid (PFDS)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<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)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorooctanesulfonic acid(6:2 FTSA)	M25-Oc0059176	CP	ug/L	< 0.05	< 0.05	<1	30%	Pass	
1H.1H.2H.2H-perfluorodecanesulfonic acid (8:2 FTSA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	
1H.1H.2H.2H-perfluorododecanesulfonic acid (10:2 FTSA)	M25-Oc0059176	CP	ug/L	< 0.01	< 0.01	<1	30%	Pass	

Comments

Report 1282063-W-V2 (amendment to report 1282063-W) has been re-issued as Samples were Split to different reports 1291059 & 1291063) as per client request.

Report 1282063-W-V3 (amendment to report 1282063-W-V2) has been issued with corrected sample ID as per client request.

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
J-	If the percent recoveries were less than the lower control limit, qualify detects for the analyte in associated samples as estimated with a negative bias J-.
J+	If the percent recoveries were greater than the upper control limit, qualify detects for the analyte in associated samples as estimated with a positive bias J+.
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.
R16	The LORs have been raised due to the high concentration of one or more analytes

Authorised by:

[redacted]

- 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.

REBATCH REQUEST

Workorder / Client code / Project:	ALS Workorder EM2519353, Client JBSENV, Project 61395, Overall Description Bandiana OMP October 2025		**CS Contact: Elinah Nassanga**
Project Manager:	***Please include this rebatch PM plus all report recipients as per original workorder***		Additional Information:
Date samples rec'd:	21/10/2025 11:50AM		
Date Instructions rec'd:	Friday, 7 November 2025 11:09		
Rebatch due date:	14/11/205	FTAT approved?	
Due date surcharge:			

Sample information								**Analysis**							
								Standard				Leach			
New Lab ID	Client ID	Sampling Date / Time	Previous Work Order Reference	Previous ALS ID	Tray Number(s)	Container	Managed Moisture	**EP231X-LL-PFAS Full suite (30**							**Shortest Holding time expiry**
1	0445_QC201_251015	15/10/2025 0:00	EM2519353	1	MPW:0808	Water HDPE	NO	X							13-Apr-26
2	0445_QC201_251016	16/10/2025 0:00	EM2519353	2	MPW:0808	Water HDPE	NO	X							14-Apr-26
3	0445_QC201_251017	17/10/2025 0:00	EM2519353	3	MPW:0808	Water HDPE	NO	X							15-Apr-26
4	0445_QC201_251013	13/10/2025 0:00	EM2519353	4	MPW:0808	Water HDPE	NO	X							11-Apr-26
5	0445_QC202_251015	15/10/2025 0:00	EM2519353	5	MPW:0808	Water HDPE	NO	X							13-Apr-26
6	0445_QC202_251016	16/10/2025 0:00	EM2519353	6	MPW:0808	Water HDPE	NO	X							14-Apr-26
7	0445_QC202_251017	17/10/2025 0:00	EM2519353	7	MPW:0808	Water HDPE	NO	X							15-Apr-26
8	0445_QC203_251015	15/10/2025 0:00	EM2519353	8	MPW:0808	Water HDPE	NO	X							13-Apr-26
9	0445_QC203_251016	16/10/2025 0:00	EM2519353	9	MPW:0808	Water HDPE	NO	X							14-Apr-26
															28-Jun-00
															28-Jun-00
															28-Jun-00
															28-Jun-00
															28-Jun-00
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															28-Jun-00
															28-Jun-00
							TOTAL	**#REF!**							

Environmental Division
Melbourne
Work Order Reference
EM2520615

Telephone : + 61-3-8549 9600

QUALITY CONTROL REPORT

Work Order	: **EM2520615**	Page	: 1 of 4
Amendment	: **1**		
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: ADMIN	Contact	: [redacted]
Address	: Level 19 31 QUEEN STREET MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9609
Project	: 61395	Date Samples Received	: 21-Oct-2025
Order number	: 61395	Date Analysis Commenced	: 10-Nov-2025
C-O-C number	: ----	Issue Date	: 02-Dec-2025
Sampler	: AR, CO		
Site	: ----		
Quote number	: EN/000 Custom Quote		
No. of samples received	: 9		
No. of samples analysed	: 9		

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*
[redacted]	[redacted]	Melbourne Organics, Springvale, VIC

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%.

- **No Laboratory Duplicate (DUP) Results are required to be reported.**

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: **WATER**

				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: 6990423)								
EP231X-LL: Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.01	µg/L	<0.01	0.025 µg/L	96.6	70.0	130
EP231X-LL: Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.002	µg/L	<0.002	0.0222 µg/L	101	72.0	130
EP231X-LL: Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.002	µg/L	<0.002	0.0235 µg/L	118	71.0	127
EP231X-LL: Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.002	µg/L	<0.002	0.0228 µg/L	88.9	68.0	131
EP231X-LL: Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.002	µg/L	<0.002	0.0238 µg/L	112	69.0	134
EP231X-LL: Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.002	µg/L	<0.002	0.0232 µg/L	104	65.0	140
EP231X-LL: Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.002	µg/L	<0.002	0.025 µg/L	90.8	69.0	127
EP231X-LL: Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.002	µg/L	<0.002	0.0241 µg/L	87.1	53.0	142
EP231B: Perfluoroalkyl Carboxylic Acids (QCLot: 6990423)								
EP231X-LL: Perfluorobutanoic acid (PFBA)	375-22-4	0.01	µg/L	<0.01	0.125 µg/L	91.4	73.0	129
EP231X-LL: Perfluoropentanoic acid (PFPeA)	2706-90-3	0.002	µg/L	<0.002	0.025 µg/L	88.2	72.0	129
EP231X-LL: Perfluorohexanoic acid (PFHxA)	307-24-4	0.002	µg/L	<0.002	0.025 µg/L	94.3	72.0	129
EP231X-LL: Perfluoroheptanoic acid (PFHpA)	375-85-9	0.002	µg/L	<0.002	0.025 µg/L	88.7	72.0	130
EP231X-LL: Perfluorooctanoic acid (PFOA)	335-67-1	0.002	µg/L	<0.002	0.025 µg/L	89.0	71.0	133
EP231X-LL: Perfluorononanoic acid (PFNA)	375-95-1	0.002	µg/L	<0.002	0.025 µg/L	91.7	69.0	130
EP231X-LL: Perfluorodecanoic acid (PFDA)	335-76-2	0.002	µg/L	<0.002	0.025 µg/L	92.0	71.0	129
EP231X-LL: Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.002	µg/L	<0.002	0.025 µg/L	91.0	69.0	133
EP231X-LL: Perfluorododecanoic acid (PFDoDA)	307-55-1	0.002	µg/L	<0.002	0.025 µg/L	93.6	72.0	134
EP231X-LL: Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.002	µg/L	<0.002	0.025 µg/L	90.5	65.0	144
EP231X-LL: Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.005	µg/L	<0.005	0.0625 µg/L	91.2	71.0	132
EP231X-LL: Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.005	µg/L	<0.005	0.025 µg/L	102	70.0	130
EP231C: Perfluoroalkyl Sulfonamides (QCLot: 6990423)								
EP231X-LL: Perfluorooctane sulfonamide (FOSA)	754-91-6	0.002	µg/L	<0.002	0.025 µg/L	100	67.0	137
EP231X-LL: N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.005	µg/L	<0.005	0.0625 µg/L	94.6	68.0	141
EP231X-LL: N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.005	µg/L	<0.005	0.0625 µg/L	99.6	70.0	130
EP231X-LL: N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.005	µg/L	<0.005	0.0625 µg/L	87.6	70.0	130
EP231X-LL: N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.005	µg/L	<0.005	0.0625 µg/L	98.4	70.0	130
EP231X-LL: N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.002	µg/L	<0.002	0.025 µg/L	102	65.0	136

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: 6990423) - continued								
EP231X-LL: N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.002	µg/L	<0.002	0.025 µg/L	93.2	61.0	135
EP231D: (n:2) Fluorotelomer Sulfonic Acids (QCLot: 6990423)								
EP231X-LL: 4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.005	µg/L	<0.005	0.0234 µg/L	90.6	63.0	143
EP231X-LL: 6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.005	µg/L	<0.005	0.0238 µg/L	91.5	64.0	140
EP231X-LL: 8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.005	µg/L	<0.005	0.024 µg/L	91.9	67.0	138
EP231X-LL: 10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.005	µg/L	<0.005	0.0242 µg/L	95.2	70.0	130
EP231P: PFAS Sums (QCLot: 6990423)								
EP231X-LL: Sum of PFAS	---	0.002	µg/L	<0.002	---	---	---	---
EP231X-LL: Sum of PFHxS and PFOS	355-46-4/17 63-23-1	0.002	µg/L	<0.002	---	---	---	---
EP231X-LL: Sum of PFAS (WA DER List)	---	0.002	µg/L	<0.002	---	---	---	---

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.

- **No Matrix Spike (MS) or Matrix Spike Duplicate (MSD) Results are required to be reported.**

QA/QC Compliance Assessment to assist with Quality Review

Work Order	: **EM2520615**	Page	: 1 of 5
Amendment	: **1**		
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: ADMIN	Telephone	: +6138549 9609
Project	: 61395	Date Samples Received	: 21-Oct-2025
Site	: ----	Issue Date	: 02-Dec-2025
Sampler	: AR, CO	No. of samples received	: 9
Order number	: 61395	No. of samples analysed	: 9

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers : Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- **NO Method Blank value outliers occur.**
- **NO Duplicate outliers occur.**
- **NO Laboratory Control outliers occur.**
- **NO Matrix Spike outliers occur.**
- **For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.**

Outliers : Analysis Holding Time Compliance

- **NO Analysis Holding Time Outliers exist.**

Outliers : Frequency of Quality Control Samples

- **Quality Control Sample Frequency Outliers exist - please see following pages for full details.**

Outliers : Frequency of Quality Control Samples

Matrix: **WATER**

Quality Control Sample Type		Count		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	
Laboratory Duplicates (DUP)						
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	0	9	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)						
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	0	9	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for ***VOC in soils*** vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: **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-LL) 0445_QC201_251013		**13-Oct-2025**	**10-Nov-2025**	11-Apr-2026	✓	**10-Nov-2025**	11-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251015, 0445_QC203_251015	0445_QC202_251015,	**15-Oct-2025**	**10-Nov-2025**	13-Apr-2026	✓	**10-Nov-2025**	13-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251016, 0445_QC203_251016	0445_QC202_251016,	**16-Oct-2025**	**10-Nov-2025**	14-Apr-2026	✓	**10-Nov-2025**	14-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251017,	0445_QC202_251017	**17-Oct-2025**	**10-Nov-2025**	15-Apr-2026	✓	**10-Nov-2025**	15-Apr-2026	✓
EP231B: Perfluoroalkyl Carboxylic Acids								
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251013		**13-Oct-2025**	**10-Nov-2025**	11-Apr-2026	✓	**10-Nov-2025**	11-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251015, 0445_QC203_251015	0445_QC202_251015,	**15-Oct-2025**	**10-Nov-2025**	13-Apr-2026	✓	**10-Nov-2025**	13-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251016, 0445_QC203_251016	0445_QC202_251016,	**16-Oct-2025**	**10-Nov-2025**	14-Apr-2026	✓	**10-Nov-2025**	14-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251017,	0445_QC202_251017	**17-Oct-2025**	**10-Nov-2025**	15-Apr-2026	✓	**10-Nov-2025**	15-Apr-2026	✓

Matrix: **WATER**

Evaluation: × = Holding time breach ; ✓ = Within holding time.

Method / Container / Client Sample ID(s)	Sample Date	Extraction / Preparation			Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP231C: Perfluoroalkyl Sulfonamides							
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251013	**13-Oct-2025**	**10-Nov-2025**	11-Apr-2026	✓	**10-Nov-2025**	11-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251015, 0445_QC202_251015, 0445_QC203_251015	**15-Oct-2025**	**10-Nov-2025**	13-Apr-2026	✓	**10-Nov-2025**	13-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251016, 0445_QC202_251016, 0445_QC203_251016	**16-Oct-2025**	**10-Nov-2025**	14-Apr-2026	✓	**10-Nov-2025**	14-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251017, 0445_QC202_251017	**17-Oct-2025**	**10-Nov-2025**	15-Apr-2026	✓	**10-Nov-2025**	15-Apr-2026	✓
EP231D: (n:2) Fluorotelomer Sulfonic Acids							
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251013	**13-Oct-2025**	**10-Nov-2025**	11-Apr-2026	✓	**10-Nov-2025**	11-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251015, 0445_QC202_251015, 0445_QC203_251015	**15-Oct-2025**	**10-Nov-2025**	13-Apr-2026	✓	**10-Nov-2025**	13-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251016, 0445_QC202_251016, 0445_QC203_251016	**16-Oct-2025**	**10-Nov-2025**	14-Apr-2026	✓	**10-Nov-2025**	14-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251017, 0445_QC202_251017	**17-Oct-2025**	**10-Nov-2025**	15-Apr-2026	✓	**10-Nov-2025**	15-Apr-2026	✓
EP231P: PFAS Sums							
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251013	**13-Oct-2025**	**10-Nov-2025**	11-Apr-2026	✓	**10-Nov-2025**	11-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251015, 0445_QC202_251015, 0445_QC203_251015	**15-Oct-2025**	**10-Nov-2025**	13-Apr-2026	✓	**10-Nov-2025**	13-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251016, 0445_QC202_251016, 0445_QC203_251016	**16-Oct-2025**	**10-Nov-2025**	14-Apr-2026	✓	**10-Nov-2025**	14-Apr-2026	✓
HDPE (no PTFE) (EP231X-LL) 0445_QC201_251017, 0445_QC202_251017	**17-Oct-2025**	**10-Nov-2025**	15-Apr-2026	✓	**10-Nov-2025**	15-Apr-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: **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-LL	0	9	0.00	10.00	×	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	1	9	11.11	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	0	9	0.00	5.00	×	NEPM 2013 B3 & ALS QC Standard

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Per- and Polyfluoroalkyl Substances (PFAS by LCMSMS	EP231X-LL	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
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.

CERTIFICATE OF ANALYSIS

Work Order	: **EM2520615**	Page	: 1 of 9
Amendment	: **1**		
Client	: **JBS&G AUSTRALIA PTY LTD**	Laboratory	: Environmental Division Melbourne
Contact	: ADMIN	Contact	: [redacted]
Address	: Level 19 31 QUEEN STREET MELBOURNE VIC, AUSTRALIA 3000	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +6138549 9609
Project	: 61395	Date Samples Received	: 21-Oct-2025 11:50
Order number	: 61395	Date Analysis Commenced	: 10-Nov-2025
C-O-C number	: ----	Issue Date	: 02-Dec-2025 16:05
Sampler	: AR, CO		
Site	: ----		
Quote number	: EN/000 Custom Quote		
No. of samples received	: 9		
No. of samples analysed	: 9		

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*
[redacted]	[redacted]	Melbourne Organics, Springvale, VIC

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 QSM5.3 compliant, NATA accredited method. 60mL or 250mL bottles have been tested to the legacy QSM 5.1 aligned, NATA accredited method.
- Amendment (2/12/2025): This report has been amended as a result of a request to change Limits of Reporting (LORs) for method EP231X-LL: PFAS received from Thomas Dufty on Tue 2/12/2025 8:12 AM.
- This is a rebatch of EM2519353

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC201_251015	0445_QC201_251016	0445_QC201_251017	0445_QC201_251013	0445_QC202_251015
			Sampling date / time	15-Oct-2025 00:00	16-Oct-2025 00:00	17-Oct-2025 00:00	13-Oct-2025 00:00	15-Oct-2025 00:00
Compound	CAS Number	LOR	Unit	EM2520615-001	EM2520615-002	EM2520615-003	EM2520615-004	EM2520615-005
				Result	Result	Result	Result	Result
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.01	µg/L	**0.05**	<0.01	**15.1**	<0.01	**0.25**
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.010	µg/L	**0.145**	<0.010	**24.1**	**0.019**	**0.763**
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010	µg/L	**0.157**	<0.010	**20.7**	**0.023**	**0.840**
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.010	µg/L	**1.15**	<0.010	**113**	**0.121**	**5.17**
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.010	µg/L	**0.095**	<0.010	**11.1**	<0.010	**0.416**
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.010	µg/L	**2.99**	<0.010	**29.9**	**0.171**	**6.28**
Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.05	µg/L	<0.05	<0.05	**4.69**	<0.05	**0.20**
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.010	µg/L	**0.038**	<0.010	**15.3**	<0.010	**0.266**
Perfluorohexanoic acid (PFHxA)	307-24-4	0.010	µg/L	**0.186**	<0.010	**37.1**	**0.013**	**1.25**
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.010	µg/L	**0.037**	<0.010	**6.54**	<0.010	**0.205**
Perfluorooctanoic acid (PFOA)	335-67-1	0.010	µg/L	**0.089**	<0.010	**10.8**	<0.010	**0.395**
Perfluorononanoic acid (PFNA)	375-95-1	0.010	µg/L	<0.010	<0.010	**0.169**	<0.010	<0.010
Perfluorodecanoic acid (PFDA)	335-76-2	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC201_251015	0445_QC201_251016	0445_QC201_251017	0445_QC201_251013	0445_QC202_251015
			Sampling date / time	15-Oct-2025 00:00	16-Oct-2025 00:00	17-Oct-2025 00:00	13-Oct-2025 00:00	15-Oct-2025 00:00
Compound	CAS Number	LOR	Unit	EM2520615-001	EM2520615-002	EM2520615-003	EM2520615-004	EM2520615-005
				Result	Result	Result	Result	Result
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	<0.050
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.010	µg/L	<0.010	<0.010	**0.223**	<0.010	<0.010
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.050	µg/L	<0.050	<0.050	**25.5**	<0.050	**0.155**
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	<0.010
EP231P: PFAS Sums								
Sum of PFAS	---	0.100	µg/L	**4.94**	<0.100	**314**	**0.347**	**16.2**
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.010	µg/L	**4.14**	<0.010	**143**	**0.292**	**11.4**
Sum of PFAS (WA DER List)	---	0.050	µg/L	**4.64**	<0.050	**267**	**0.324**	**14.7**
EP231S: PFAS Surrogate								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC201_251015	0445_QC201_251016	0445_QC201_251017	0445_QC201_251013	0445_QC202_251015
			Sampling date / time	15-Oct-2025 00:00	16-Oct-2025 00:00	17-Oct-2025 00:00	13-Oct-2025 00:00	15-Oct-2025 00:00
Compound	CAS Number	LOR	Unit	EM2520615-001	EM2520615-002	EM2520615-003	EM2520615-004	EM2520615-005
				Result	Result	Result	Result	Result
EP231S: PFAS Surrogate - Continued								
13C4-PFOS	---	0.002	%	**130**	**88.2**	**91.9**	**98.3**	**97.5**
13C8-PFOA	---	0.002	%	**127**	**88.2**	**95.3**	**99.2**	**97.2**

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC202_251016	0445_QC202_251017	0445_QC203_251015	0445_QC203_251016	----
			Sampling date / time	16-Oct-2025 00:00	17-Oct-2025 00:00	15-Oct-2025 00:00	16-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit	EM2520615-006	EM2520615-007	EM2520615-008	EM2520615-009	--------
				Result	Result	Result	Result	—
EP231A: Perfluoroalkyl Sulfonic Acids								
Perfluoropropane sulfonic acid (PFPrS)	423-41-6	0.01	µg/L	**0.04**	<0.01	<0.01	**0.01**	----
Perfluorobutane sulfonic acid (PFBS)	375-73-5	0.010	µg/L	**0.122**	<0.010	**0.025**	**0.047**	----
Perfluoropentane sulfonic acid (PFPeS)	2706-91-4	0.010	µg/L	**0.146**	<0.010	**0.025**	**0.043**	----
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	0.010	µg/L	**1.28**	<0.010	**0.152**	**0.278**	----
Perfluoroheptane sulfonic acid (PFHpS)	375-92-8	0.010	µg/L	**0.088**	<0.010	<0.010	**0.017**	----
Perfluorooctane sulfonic acid (PFOS)	1763-23-1	0.010	µg/L	**2.27**	<0.010	**0.198**	**1.03**	----
Perfluorononane sulfonic acid (PFNS)	68259-12-1	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluorodecane sulfonic acid (PFDS)	335-77-3	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
EP231B: Perfluoroalkyl Carboxylic Acids								
Perfluorobutanoic acid (PFBA)	375-22-4	0.05	µg/L	<0.05	<0.05	<0.05	<0.05	----
Perfluoropentanoic acid (PFPeA)	2706-90-3	0.010	µg/L	**0.036**	<0.010	<0.010	**0.034**	----
Perfluorohexanoic acid (PFHxA)	307-24-4	0.010	µg/L	**0.187**	<0.010	**0.015**	**0.136**	----
Perfluoroheptanoic acid (PFHpA)	375-85-9	0.010	µg/L	**0.021**	<0.010	<0.010	**0.024**	----
Perfluorooctanoic acid (PFOA)	335-67-1	0.010	µg/L	**0.061**	<0.010	<0.010	**0.046**	----
Perfluorononanoic acid (PFNA)	375-95-1	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluorodecanoic acid (PFDA)	335-76-2	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluoroundecanoic acid (PFUnDA)	2058-94-8	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluorododecanoic acid (PFDoDA)	307-55-1	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluorotridecanoic acid (PFTrDA)	72629-94-8	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
Perfluorotetradecanoic acid (PFTeDA)	376-06-7	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC202_251016	0445_QC202_251017	0445_QC203_251015	0445_QC203_251016	----
			Sampling date / time	16-Oct-2025 00:00	17-Oct-2025 00:00	15-Oct-2025 00:00	16-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit	EM2520615-006	EM2520615-007	EM2520615-008	EM2520615-009	--------
				Result	Result	Result	Result	---
EP231B: Perfluoroalkyl Carboxylic Acids - Continued								
Perfluorohexadecanoic acid (PFHxDA)	67905-19-5	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
EP231C: Perfluoroalkyl Sulfonamides								
Perfluorooctane sulfonamide (FOSA)	754-91-6	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Methyl perfluorooctane sulfonamide (MeFOSA)	31506-32-8	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Ethyl perfluorooctane sulfonamide (EtFOSA)	4151-50-2	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Methyl perfluorooctane sulfonamidoethanol (MeFOSE)	24448-09-7	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Ethyl perfluorooctane sulfonamidoethanol (EtFOSE)	1691-99-2	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Methyl perfluorooctane sulfonamidoacetic acid (MeFOSAA)	2355-31-9	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
N-Ethyl perfluorooctane sulfonamidoacetic acid (EtFOSAA)	2991-50-6	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
EP231D: (n:2) Fluorotelomer Sulfonic Acids								
4:2 Fluorotelomer sulfonic acid (4:2 FTS)	757124-72-4	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
6:2 Fluorotelomer sulfonic acid (6:2 FTS)	27619-97-2	0.050	µg/L	<0.050	<0.050	<0.050	<0.050	----
8:2 Fluorotelomer sulfonic acid (8:2 FTS)	39108-34-4	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
10:2 Fluorotelomer sulfonic acid (10:2 FTS)	120226-60-0	0.010	µg/L	<0.010	<0.010	<0.010	<0.010	----
EP231P: PFAS Sums								
Sum of PFAS	----	0.100	µg/L	**4.25**	<0.100	**0.415**	**1.66**	----
Sum of PFHxS and PFOS	355-46-4/1763-23-1	0.010	µg/L	**3.55**	<0.010	**0.350**	**1.31**	----
Sum of PFAS (WA DER List)	----	0.050	µg/L	**3.98**	<0.050	**0.390**	**1.60**	----
EP231S: PFAS Surrogate								

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	0445_QC202_251016	0445_QC202_251017	0445_QC203_251015	0445_QC203_251016	----
			Sampling date / time	16-Oct-2025 00:00	17-Oct-2025 00:00	15-Oct-2025 00:00	16-Oct-2025 00:00	----
Compound	CAS Number	LOR	Unit	EM2520615-006	EM2520615-007	EM2520615-008	EM2520615-009	--------
				Result	Result	Result	Result	---
EP231S: PFAS Surrogate - Continued								
13C4-PFOS	---	0.002	%	89.7	90.2	105	113	----
13C8-PFOA	---	0.002	%	89.6	92.1	88.7	113	----

Surrogate Control Limits

Sub-Matrix: WATER		Recovery Limits (%)	
Compound	CAS Number	Low	High
EP231S: PFAS Surrogate			
13C4-PFOS	---	65	140
13C8-PFOA	---	71	133

Appendix G Water Quality Parameter Descriptions

Descriptions of the water quality parameter ranges for EC, pH, DO and ORP have been summarised below.

Table G.1: Water Quality Parameter Descriptions

Parameter	Description	Reference or Comment
EC	Freshwater: 0–2,500 µS/cm Brackish Water: 2,500–5,000 µS/cm Saline Water: 5,000–50,000 µS/cm Seawater: 50,000 µS/cm	Based on general guidance discussed in Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Water Quality Guidelines (ANZECC and ARMCANZ 2000).
pH	Acidic: <6.5 Neutral: 6.5–8.5 Alkaline: >8.5	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.
DO	Hypoxic: <2 mg/L Poor aerobic: 2–5 mg/L Good aerobic: 5–8 mg/L Excellent aerobic: >8 mg/L	Based on Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018) and World Health Organisation Guidelines for Drinking-Water Quality (WHO 2022) water quality standards.
ORP	Reducing: <0 mV Moderately oxidising: 0–200 mV Oxidising: 200–400 mV Highly Oxidising: >400 mV	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.

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Appendix G Summary of Sample Event Variation from OMP SAQP

Tables have been provided on the following pages detailing the sample event variations from the OMP SAQPs (JBS&G 2025e, JBS&G 2025f), as summarised from the SERs (see **Appendix E** and **Appendix F**). Variations relating to groundwater have been provided in **Table G.1** and surface water in **Table G.2**

Table G.1: Deviations from OMP SAQP – Groundwater

Location	Deviation	Comments	Impact on Existing Dataset & Program
Sampling Event 8 – May 2025			
MW413	Not sampled	Monitoring well was damaged and could not be sampled	Low impact – Adjacent locations MW414, MW415 and MW411 which target the same aquifer were all able to be sampled during the event. This deviation is not considered to impact the objective of the OMP.
Sampling Event 9 – October 2025			
MW318	Not sampled	Bore dry.	Low impact – Adjacent locations to MW318 which target the same aquifer MW315 and MW317 were all able to be sampled during the event. This deviation is not considered to impact the objective of the OMP.
MW353	Not sampled	Insufficient water column to allow for sampling.	Low impact – Downgradient locations of MW353 which target the same aquifer MW016, MW035 and MW043 were all able to be sampled. This deviation is not considered to impact the objective of the OMP.
MW315	Sampled using incorrect methodology	Sampled using a bailer in a water column <1.0 m.	Low impact – Several unsuccessful attempts were made to deploy a HydraSleeve™ in MW315 despite there being sufficient water column. A partial blockage due to roots may have been the cause. Instead, this location was sampled using a bailer. This deviation is not considered to impact the objective of the OMP.
MW056	Not sampled	Incorrect location sampled.	Low impact – MW056 is the only monitoring location targeting the perched water in Source Area 9. This location has however returned samples that indicate stability in PFAS concentration in this area, indicating little historic change in risk profile. In addition, surface water samples targeting the discharge point of the perched water in Source Area 9 (SW346, SW349 and SW355) were all able to be sampling during the event. These surface water samples are therefore considered to still monitor risk associated with the perched groundwater. Considering the above, this deviation is not considered to effect the objective of the OMP.

Table G.2: Deviations From OMP SAQP – Surface Water

Location	Deviation	Comments	Impact on Existing Dataset & Program
Sampling Event 8 – May 2025			
SW302	Not sampled.	Location dry.	No impact – Monitoring throughout the OMP program and DSI (Golder 2018) indicates this location is consistently dry and had not been sampled up to the point of this sampling event. It is therefore not considered to affect the dataset. Downstream location off-base (SW427) was sampled during the E8 sampling event and previous events.

Location	Deviation	Comments	Impact on Existing Dataset & Program
SW307	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Therefore, this is considered to have a low impact on the dataset. Downstream locations off-base (SW424, SW427) were sampled during the E8 sampling event. SW307 was last sampled in October 2022 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW310	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset as the PFAS conditions are well understood in this location based on previous investigations, particularly the Mass Flux Study (JBS&G 2024).
SW311	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset as the PFAS conditions are well understood in this location based on previous investigations, particularly the Mass Flux Study (JBS&G 2024).
SW313	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Therefore, this is considered to have a low impact on the dataset. Downstream location off-base (SW427) was sampled during this event. Location last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW321	Not sampled.	Location dry.	Low impact – Location was dry during both sampling events in 2025. Downstream location off-base (SW424) was sampled during this event. Location last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW322	Not sampled.	Location dry.	Low impact – Location was dry during both sampling events. Downstream location off-base (SW427) was sampled during this event. Location last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW340	Not sampled.	Location dry.	Low impact – Location was dry during both sampling events. Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Downstream location on-base (SW323) was sample during both sampling events with reported concentrations consistent with historical results.
SW379	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset. Downstream on-base location (SW382) was sampled during this event. This

Location	Deviation	Comments	Impact on Existing Dataset & Program
			location was last sampled during November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW380	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset. Downstream on-base location (SW382) was sampled during this event. This location was last sampled during November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW396	Not sampled.	Location dry.	Low impact – This location was dry during the E8 sampling event. This was the first time during the OMP program that this location was dry, and is considered to have a low impact on the dataset. Other locations monitoring the Kiewa River floodplain oxbows (SW395, SW397 and SW487) and downstream off-base locations (SW398 and SW404) were sampled during this event. This location was able to be sampled during the E9 sampling event.
SW403	Not sampled.	Location dry.	Low impact – Downstream off-base location (SW404) was sampled during this event. This location was last sampled in October 2023 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW405	Not sampled.	Location dry.	Low impact – Downstream off-base location (SW416) was sampled during this event. This location was last sampled in October 2023 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW463	Not sampled.	Location dry.	Low impact – This was the first time during the OMP program that this location was dry, and is considered to have a low impact on the dataset. Downstream off-base location (SW427) was sampled during this event. This location was last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW471	Not sampled.	Location dry.	Low impact – Downstream off-base locations (SW404 and SW416) were sampled during this event. This location was last sampled in October 2023 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
Sampling Event 9 – October 2025			
SW307	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Therefore, this is considered to have a low impact on the dataset. Downstream locations off-base (SW424, SW427) were sampled during the E8 sampling event. SW307 was last sampled in October 2022 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW310	Not sampled.	Location dry.	Low impact – Location was dry during the E9 sampling event. Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except

Location	Deviation	Comments	Impact on Existing Dataset & Program
			following a reasonable rainfall event. This is considered to have minimal impact on the dataset as the PFAS conditions are well understood in this location based on previous investigations, particularly the Mass Flux Study (JBS&G 2024).
SW313	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Therefore, this is considered to have a low impact on the dataset. Downstream location off-base (SW427) was sampled during this event. Location last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW316	Not sampled.	Location dry.	Low impact – Location was dry during both sampling events. Downstream location off-base (SW427) was sampled during this event. Location last sampled in May 2025 during the E8 sampling event and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW321	Not sampled.	Location dry.	Low impact – Location was dry during both sampling events. Downstream location off-base (SW427) was sampled during this event. Location last sampled in November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW332	Not sampled.	Location dry.	Low impact – Location was dry during the E9 sampling event. Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Downstream on-base location (SW323) was sampled during this event. This location was last sampled during November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW333	Not sampled.	Location dry.	Low impact – Downstream off-base location (SW323) was sampled during this event. This location was last sampled in May 2025 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW336	Not sampled.	Location dry.	Low impact – Location was unable to be accessed during the E9 monitoring event. The location samples a closed system, so there are no downgradient locations. This location was last sampled during the May 2025 event and reported concentrations above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW340	Not sampled.	Location dry.	Low impact – Location was dry during E9 sampling event. Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. Downstream on-base location SW323 was sample during both sampling events with reported concentrations consistent with historical results.
SW370	Not sampled.	Location dry.	Low impact – Location was dry during the E9 sampling event. This was the first time during the OMP that this location was dry and is considered to have a low impact on the dataset. On-base downgradient locations SW374

Location	Deviation	Comments	Impact on Existing Dataset & Program
			and SW375 were able to be sampled. This location was last sampled during the May 2025 sampling event and reported concentrations consistent with historical results.
SW379	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset. Downstream on-base location (SW324) was sampled during this event. This location was last sampled during May 2025 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW424	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset. Downstream on-base location (SW382) was sampled during this event. This location was last sampled during November 2024 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW448	Not sampled.	Location dry.	Low impact – Monitoring throughout the OMP program indicates this location is ephemeral and usually dry, except following a reasonable rainfall event. This is considered to have minimal impact on the dataset. Downstream on-base location (SW326) was sampled during this event. This location was last sampled during May 2025 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS.
SW463	Not sampled.	Location dry.	Low impact – Downstream off-base location (SW427) was sampled during this event. This location was last sampled in May 2025 and reported results above the adopted drinking water criterion for sum of PFOS+PFHxS. This is considered to have minimal impact on the dataset.

Appendix H Water Quality Parameter Tables

Water quality parameter tables for both surface water and groundwater have been provided on the following pages. Descriptions of the water quality parameter ranges for EC, pH, DO and ORP have been summarised below.

Table H.1: Water Quality Parameter Descriptions

Parameter	Description	Reference or Comment
EC	Freshwater: 0–2,500 µS/cm Brackish Water: 2,500–5,000 µS/cm Saline Water: 5,000–50,000 µS/cm Seawater: 50,000 µS/cm	Based on general guidance discussed in Australian and New Zealand Environment and Conservation Council (ANZECC) and Agriculture and Resource Management Council of Australia and New Zealand (ARMCANZ) Water Quality Guidelines (ANZECC and ARMCANZ 2000).
pH	Acidic: <6.5 Neutral: 6.5–8.5 Alkaline: >8.5	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.
DO	Hypoxic: <2 mg/L Poor aerobic: 2–5 mg/L Good aerobic: 5–8 mg/L Excellent aerobic: >8 mg/L	Based on Australian and New Zealand Guidelines for Fresh and Marine Water Quality (ANZG 2018) and World Health Organisation Guidelines for Drinking-Water Quality (WHO 2022) water quality standards.
ORP	Anaerobic: <0 mV Moderately Reducing: 0–200 mV Oxidising: 200–400 mV Highly Oxidising: >400 mV	No single international standard, but commonly used ranges from groundwater and wastewater treatment sources.

Note:

1. µS/cm = microsiemens Per Centimetre, mg/L = milligrams per litre, mV = millivolts.

Table H.1: On-base Groundwater Physiochemical Field Parameters

Event	pH	Dissolved Oxygen (DO) (mg/L)	Electrical Conductivity (EC) (µS/cm)	Total Dissolved Solids (TDS)[1] (mg/L)	Oxidation Reduction Potential (ORP) (mV)
Shepparton Colluvium – Shallow – On-base					
E8	Not monitored during E8				
E9	5.62 (MW323) – 7.24 (MW317)	0.45 (MW416) – 5.40 (MW315)	802 (MW343) – 8,719 (MW311)	31 (MW312) – 4,278 (MW304)	-131.4 (MW416) – 220.6 (MW343)
	Slightly acidic to neutral	*Hypoxic to good aerobic conditions*	*Freshwater to saline water*	*Freshwater to brackish water*	*Reducing to oxidising conditions*
Shepparton and Coonambidgal Fluvium – Shallow – On-base					
E8	Not monitored during E8				
E9	5.77 (MW029) – 7.34 (MW344)	0.86 (MW354) – 5.50 (MW345)	136 (MW351) – 5,052 (MW345)	88 (MW351) – 3,283 (MW345)	-41.2 (MW052) – 221.0 (MW016)
	Slightly acidic to neutral	*Hypoxic to good aerobic conditions*	*Freshwater to saline water*	*Freshwater to brackish water*	*Reducing to oxidising conditions*
Shepparton and Coonambidgal Fluvium – Intermediate – On-base					
E8	Not monitored during E8				
E9	6.07 (MW009) – 6.44 (MW042)	1.46 (MW046_I) – 2.39 (MW042)	247 (MW042) – 293 (MW009)	160 (MW042) – 190 (MW009)	107.8 (MW042) – 205.4 (MW009)
	Slightly acidic	*Hypoxic to poor aerobic conditions*	*Freshwater*	*Freshwater*	*Moderately oxidising to oxidising conditions*
Shepparton and Coonambidgal Fluvium – Deep – On-base					
E8	Not monitored during E8				
E9	6.29 (MW046_D) – 6.57 (MW350_D)	2.92 (MW046_D) – 2.95 (MW350_D)	245 (MW350_D) – 267 (MW046_D)	160 (MW350_D) – 174 (MW046_D)	54.1 (MW350_D) – 156.3 (MW046_D)
	Slightly acidic to neutral	*Poor aerobic conditions*	*Freshwater*	*Freshwater*	*Moderately oxidising to oxidising conditions*

Notes:

1. EC in µS/cm converted to TDS in mg/L by multiplying by 0.65.

Table H.2: Off-base Groundwater Physiochemical Field Parameters

Event	pH	DO (mg/L)	EC (µS/cm)	TDS[1] (mg/L)	ORP (mV)
Shepparton Colluvium – Shallow – Off-base					
E8	5.61 (MW361) – 7.18 (MW360)	1.22 (MW361) – 2.46 (MW360)	978 (MW360) – 1,284 (MW361)	636 (MW360) – 835 (MW361)	-47.5 (MW361) – -2.2 (MW360)
	Acidic to neutral	*Hypoxic to poor aerobic conditions*	*Freshwater*	*Freshwater*	*Reducing conditions*
E9	6.29 (MW302) – 7.56 (MW360)	0.49 (MW303) – 1.13 (MW360)	625 (MW361) – 12,413 (MW302)	406 (MW361) – 8,068 (MW302)	-97.0 (MW313) – 134.7 (MW302)
	Slightly acidic to neutral	*Hypoxic to poor aerobic conditions*	*Freshwater to saline water*	*Freshwater to saline water*	*Reducing to moderately oxidising conditions*
Shepparton and Coonambidgal Fluvium – Shallow – Off-base					
E8	5.61 (MW415) – 6.43 (MW447)	0.89 (MW447) – 3.84 (MW356)	56 (MW356) – 3,001 (MW447)	36 (MW356) – 1,951 (MW447)	-61.8 (MW357) – 394.9 (MW411)
	Acidic to slightly acidic	*Hypoxic to poor aerobic conditions*	*Freshwater to brackish water*	*Freshwater to brackish water*	*Reducing to oxidising conditions*
E9	5.68 (MW357) – 7.25 (MW447)	0.81 (MW412) – 3.44 (MW415)	56 (MW356) – 2,657 (MW447)	37 (MW356) – 1,727 (MW447)	-58.7 (MW357) – 219.1 (MW412)
	Acidic to neutral	*Hypoxic to poor aerobic conditions*	*Freshwater to brackish water*	*Freshwater to brackish water*	*Reducing to oxidising conditions*

Notes:

1. EC in µS/cm converted to TDS in mg/L by multiplying by 0.65.

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Table H.3: Surface Water Quality Field Parameters

Event	pH	DO (mg/L)	EC (µS/cm)	TDS (mg/L)	ORP (mV)
On-base					
E8	5.90 (SW430) – 7.77 (SW400)	0.58 (SW431) – 9.31 (SW398)	29 (SW404) – 457 (SW397)	19 (SW404) – 297 (SW397)	-150.6 (SW430) – 174.5 (SW409)
	Moderately acidic to neutral	*Hypoxic to excellent aerobic conditions*	*Freshwater*	*Freshwater*	*Reducing to oxidising conditions*
E9	6.43 (SW401) – 8.90 (SW416)	1.22 (SW401) – 9.91 (SW432)	22 (SW416) – 575 (SW396)	15 (SW416) – 374 (SW396)	7.22 (SW427) – 230.1 (SW462)
	Moderately acidic to slightly alkaline	*Hypoxic to excellent aerobic conditions*	*Freshwater*	*Freshwater*	*Moderately oxidising to oxidising conditions*
Off-base					
E8	6.06 (SW324) – 7.11 (SW370)	3.09 (SW370) – 10.16 (SW338)	27 (SW323) – 325 (SW387)	18 (SW323) – 211 (SW387)	41.5 (SW448) – 175.8 (SW349)
	Moderately acidic to neutral	*Poor to excellent aerobic conditions*	*Freshwater*	*Freshwater*	*Moderately oxidising conditions*
E9	5.88 (SW326) – 9.77[2] (SW338)	1.35 (SW346) – 7.37 (SW338)	24 (SW382) – 329 (SW387)	16 (SW382) – 214 (SW387)	38.6 (SW338) – 470.0 (SW349)
	Acidic to alkaline	*Hypoxic to good aerobic conditions*	*Freshwater*	*Freshwater*	*Moderately oxidising to highly oxidising conditions*

Notes:

1. EC in µS/cm converted to TDS in mg/L by multiplying by 0.65.
2. JBS&G SER identifies the pH result for SW338 (9.77) to be potentially anomalous, however it is consistent with historic results, and as such, has been left in this table.

Appendix I Other Relevant Work Summaries

I.1 DSI Addendum

I.1.1 Background and Objective

The DSI Addendum (JBS&G 2024a) was conducted to gather additional data on PFAS contamination, focusing on Source Area 6 in South Bandiana and Source Area 13 in East Bandiana. The investigation aimed to better define the extent and mobility of PFAS within these areas and assess migration pathways to off-base locations. This information supports PMAP Response Actions and informs the development of a Remedial Action Plan (RAP).

I.1.2 Soil Results

The investigation identified PFAS concentrations in soil below and immediately around the facility infrastructure at both Source Area 6 and 13, which reduced significantly with distance from the infrastructure. Due to the clayey geology, PFAS primarily occurred within the top 1.0 m of soil in Source Area 6.

Sandier geology at Source Area 13 allowed PFAS to migrate deeper to the extent of soil investigation of 4.0 mbgl. Investigations of Source Area 14 and 15 and the Diffuse Sources within East Bandiana did not identify PFAS in soils above adopted tier 1 human health screening criteria and concentrations that warranted action to manage potential for migration to groundwater.

I.1.3 Surface Water Results

PFAS was identified around stormwater infrastructure associated with Source Areas 6 and 13. PFAS was found to be readily mobilised from different media (soil, concrete and asphalt, porewater) and was present in surface water runoff. Investigations into drainage infrastructure and topography found direct pathways via surface water from Source Area 6 to Jack in the Box Creek and from Source Area 13 to the oxbows in the Kiewa River floodplain.

I.1.4 East Bandiana Aquifer Characterisation Results

The aquifer characterisation investigation conducted across East Bandiana and the off-base immediately to the north, identified a deeper sand horizon at a depth of approximately 11-14 mbgl. PFAS concentrations are generally an order of magnitude higher in the deeper sand horizon compared to those reported in shallow wells. The deeper sand horizon has a relatively high hydraulic conductivity (10-20 m/day) and appears to be continuous across East Bandiana although its thickness is variable. Multiple lines of evidence (comparable survey depths, geochemical and PFAS data) indicate that the deeper sand horizon intercepts the oxbow lakes in the Kiewa River floodplain to the north of the base.

This finding was one of the key outcomes for this investigation and was used to refine the CSM, identifying the deeper sand horizon as a key pathway for groundwater migration across East Bandiana. This finding updated the previously proposed interconnected sand stringer theory that was thought to drive groundwater and PFAS migration (as identified in the DSI (Golder 2018)).

I.1.5 CSM Update

Through the DSI Addendum (JBS&G 2024a), JBS&G confirmed the key CSM pathway for the migration of PFAS off the base for South and North Bandiana was via surface water. The key migration pathways for East Bandiana were both surface water and groundwater, although, based on previous development work across this portion of the base, it was considered unlikely that significant PFAS mass was migrating via the surface water pathway. This was confirmed as part of the Mass Flux Study (JBS&G 2024b) (see **Section J.2**).

Overall, PFAS concentrations in soil, sediment, groundwater and surface water at the site were comparable to previous studies (i.e. DSI (Golder 2018) and HHERA (Golder 2020)), with no change in the risk profile for on-base or off-base receptors. As such, JBS&G did not identify contamination which poses a risk of harm that requires immediate remedial or management responses on base or within the Management Area.

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I.1.6 Remedial Response

The DSI Addendum (JBS&G 2024a) indicated that future works should focus on reducing PFAS migration from the base through remediation and/or management, along with ongoing monitoring of PFAS concentrations and land use across the Management Area (to ensure an ongoing low and acceptable risk level). The DSI Addendum (JBS&G 2024a) concluded that an appropriate remedial response to address the PMAP Management Action will likely involve a combination of Source Area and remediation and/or management of affected pathways.

I.2 Mass Flux Study

I.2.1 Background and Objective

The Mass Flux Study (JBS&G 2024b) was completed by JBS&G over an approximate 21-month period extending from July 2022 through to April 2024. The overarching objective of the Mass Flux Study was to support closure of PMAP Actions 1 and 2, although the specific sub-objectives of the investigation included:

- Quantifying the overall annual PFAS mass flux from the base to off-base areas:
    - Via overland flow and the base stormwater network; and
    - Via groundwater flow.
- Further understanding of baseline concentrations of PFAS migrating off-base in order to allow a post remediation comparison;
- Further quantify the contribution of PFAS into stormwater and groundwater from Source Areas to inform future implementation of PMAP Actions (i.e. a RAP); and
- Quantify overland flow and stormwater flow during peak flow events and determine the seasonality of PFAS mass flux from the base.

I.2.2 Mass Flux Study Results

Through the completion of the Mass Flux Study, there is now a comprehensive understanding of the pathways through which PFAS discharges off-base and the estimated flux through these pathways. The Mass Flux Study confirmed the CSM DSI Addendum (JBS&G 2024a), in that the primary off-base PFAS migration pathway for South and North Bandiana was via surface water, while the primary pathway for East Bandiana was via groundwater. This relationship is evident in the estimated mass flux numbers provided in the following **Table J.1**, although it is noted that surface water mass flux is approximately 30% higher than would occur on an average non-La Nina year.

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Table I.1: Estimated Mass Flux Summary

Base Area	Media	Approximate Mass Flux – Sum of PFOS+PFHxS (g/year)	Approximate Mass Flux – Sum of PFAS (g/year)
South Bandiana	Groundwater	<1	<1
	Surface water[1]	362	434
North Bandiana	Groundwater	1	1
	Surface water[2]	338	461
East Bandiana	Groundwater	66	93
	Surface water	2	4
	Sewerage	3	3

Note:

1. Surface water calculations relate only to the western portion of South Bandiana, based on the hydraulic divide that runs through this portion of the base.
2. The surface water exiting from the North Bandiana boundary is a combination of flows from the eastern portion of South Bandiana (see comment above), plus flows from North Bandiana.

It is noted that the Mass Flux Study did not identify a seasonal concentration/flux trend and only slightly higher PFAS concentrations were observed in the 'first flush' samples of the study.

While the Mass Flux Study provided a broader understanding of PFAS movement across the base boundaries, the study provided further information at a sub-catchment level, highlighting the contributions of individual Source Areas. Both Source Area 1 and Source Area 7 on South Bandiana generated surface water with PFAS concentrations an order of magnitude higher downstream from the Source Area, compared to upstream. This indicates that surface PFAS contamination is likely more widespread than previously characterised in the DSI (Golder 2018) and DSI Addendum (JBS&G 2024a), and as such, further investigation of these areas is underway.

As mentioned in **Section J.1.6**, the DSI Addendum (JBS&G 2024a) indicated an appropriate remedial response to reduce PFAS migration from the base would likely involve a combination of Source Area and pathway remediation and/or management. The Mass Flux Study (JBS&G 2024b) confirmed this conclusion and assisted in refining the understanding of Source Areas and pathways requiring attention.

I.3 Source Area 1 and 7 Further Investigation

I.3.1 Background and Objective

As identified in the Mass Flux Study (JBS&G 2024b) summarised previously, higher PFAS concentrations in surface water were identified migrating away from Source Area 1 and Source Area 7 in South Bandiana. In addition to this, the OMP program identified relatively higher PFAS concentrations in one well in each of the Source Areas (MW307 and MW321 respectively). Based on these findings, additional investigation work was completed within both Source Areas to assess the potential effect on soils and infrastructure from PFAS-based AFFF training and use. The further assessment was used to assess the influence of PFAS in soil on measured concentrations in groundwater and surface water runoff.

The investigation and findings were documented within the Source Area 1 and 7 Further Investigation report[11] (JBS&G 2025a).

[11] Source Areas 1 and 7 Further Investigation – PFAS Management Area Plan (PMAP) Delivery at Bandiana Military Area. Document number 61395/162,538 Rev 0. JBS&G Australia Pty Ltd. 1 May 2025 (JBS&G 2025a)

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I.3.2 Soil Results

Soil results from the investigation are summarised as follows:

- **Source Area 1**: The highest PFAS concentrations were identified around and down-gradient of the earthen bund where training with AFFF products is known to have occurred, with lower concentrations of PFAS across the balance of the Source Area. It was concluded that the combination of widespread low-concentration PFAS in soils across Source Area 1 and the flat, deeper clayey conditions of the soil across the area were considered to contribute to higher concentrations in surface water run-off. Furthermore, shrinking and cracking of the clay dominated geology during dry periods is a mechanism by which PFAS can migrate downwards into groundwater in the vicinity of the earthen bund; and
- **Source Area 7**: The highest PFAS concentrations were identified to the west and north of the former fire station compound. The PFAS concentrations identified in surface soils across Source Area 7 were considered consistent with the surface water concentrations identified in the Mass Flux Study (JBS&G 2024b). Similar to Source Area 1, the shrinking and cracking of clayey geology is a mechanism by which PFAS can migrate into groundwater.

I.3.3 Remedial Response

While the contamination identified in both Source Areas did not pose a current risk to human health, the investigation did confirm that the Source Areas will require remediation and/or management action in order to assist in achieving PMAP Risks Management Actions.

I.4 OMR 2021-22-23-24

The following is a summary of the OMP program investigations that have been completed between 2021 and 2023. Specific analytical data and recorded observations from these works have been presented throughout **Sections 8** and **9**, to assist in discussing the 2024 data set.

I.4.1 Objective

The OMR – 2021, 2022 and 2023 (JBS&G 2025b) and OMR 2024 (JBS&G 2025d) presented and evaluated the OMP data from seven sampling events (November 2021, May 2022, October 2022, May 2023, October 2023, April 2024 and November/December 2024) within the context of the PMAP (Defence 2020) and other investigations which have been completed across the base.

I.4.2 Groundwater

Groundwater levels were influenced by the above average rainfall experienced during the OMR reporting period, with levels at some wells 1.5 m higher during the 2022 monitoring events compared with 2021 and 2023. This water level change may have contributed to some minor increasing PFAS concentration trends (i.e. less than an order of magnitude) in some wells. Additional monitoring is required to establish trends during average conditions to determine if further action is warranted.

Groundwater flow directions across the base are consistent with the conceptual understanding of groundwater movement from topographically high to topographically low areas. The Shepparton Colluvium shallow aquifer (South Bandiana and North Bandiana) flows in a west and north westerly direction towards Jack in the Box Creek, while the Shepparton and Coonambidgal Fluvium aquifer at East Bandiana flows in a north easterly direction towards the Kiewa River.

The groundwater results from the seven OMP sampling rounds are relatively consistent with the outcomes of historical and recent investigations. PFAS concentrations within the Shepparton Colluvium shallow aquifer, in North and South Bandiana are consistent, with PFAS concentrations restricted to the portions of the base in and immediately surrounding the previously identified Source Areas. PFAS concentrations within the Shepparton and Coonambidgal Fluvium aquifers at East Bandiana are also relatively consistent, although

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a PFAS plume is present from Source Area 13 across to the north eastern base boundary, which is consistent with the findings of historical and more recent investigations.

The OMR data, in addition to other investigations on the base, has identified PFAS concentrations in MW307 in Source Area 1 on South Bandiana and MW321 in Source Area 7, also on South Bandiana, above 1.0 mg/L. Both areas were subsequently investigated further to assist in better understanding the OMP results (refer to **Section H.3**).

I.4.3 Surface Water

Surface water results obtained from the five OMP sampling rounds indicate relatively consistent concentrations and align with the identified Source Areas and their respective pathways to off-base areas. This includes identified surface water PFAS concentrations associated with select Source Areas (1, 5, 6 and 7) across South Bandiana being transported into Jack in the Box Creek and Kiewa River off-base catchments. The results also confirm that surface water is not a primary migration pathway for East Bandiana. Surface water results in the off-base Kiewa River floodplain considered to primarily be the result of groundwater migration (as per the findings of recent PFAS investigations).

Several anomalous results were identified during the OMR period, including those from SW326, SW332 and SW398. These sample locations will continue to be monitored to determine the significance of the anomalous results.

Based on the surface water data from the seven OMP sampling events, no clear correlation or pattern was identified between above average rainfall and PFAS concentrations.

I.4.4 Sediment

Sediment PFAS concentrations within surface water drainage pathways are representative of their location relative to Source Areas. Higher concentrations were identified in areas immediately adjacent Source Areas/in areas. Sediment PFAS concentrations tend to decrease with distance from a Source Area.

I.4.5 Risk Summary

The OMP results from the OMR – 2021, 2022 and 2023 (JBS&G 2025b) and OMR - 2024 (JBS&G 2025d) did not identify any additional Source Areas which had not been previously assessed and no additional transport/exposure pathways or changes to existing pathways have been identified.

The OMP analytical results discussed as part of the OMR were within ranges identified and considered in previous investigation reports. Where PFAS increases have been identified during an OMP event, a review was completed of the source-receptor pathway to identify if there has been a change in risk to on and off-base receptors. No change in risk was identified.

Based on the review completed as part of the OMR, it was not considered necessary to update the current CSM.

I.4.6 Conclusions

Based on the assessment completed as part of the OMR it was concluded that the objectives of the OMP had been achieved by the program. The assessment identified that PFAS concentrations during the 2021 to 2024 period were consistent with previous investigation and historic data, with the exception of several locations listed above. As a result, there has been no material change in risk to on and off-base receptors.

While the existing monitoring network is sufficient to continue monitoring of PFAS identified within Source Areas and migration pathways, there were several recommended alterations to the OMP monitoring program, including the following:

- Further monitoring of groundwater is recommended immediately off-base to the north of East Bandiana, to delineate the known East Bandiana PFAS plume to the oxbow lake closest to the base boundary, which is a known receptor. With this improved monitoring between the base and the

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receptor, the sampling frequency of all on-base wells across East Bandiana can be reduced from biannual to annual;

- Owing to the proximity of Source Area 1 to the base boundary and increases in MW307, it is recommended that additional down-gradient wells be included in the OMP to ensure delineation of potential PFAS plume migration;
- Monitor additional wells in North Bandiana to ensure adequate data is available to calculate groundwater flow contours in this portion of the base, and to delineate groundwater PFAS concentrations in MW342;
- Off-base monitoring through the provision of a new well to the east of North Bandiana to characterise the PFAS plume prior to potentially entering the Killara residential development. With this improved monitoring between the base and the receptor, the sampling frequency of North Bandiana wells MW345 and MW346 can be reduced from biannual to annual;
- Discontinuation of sediment sampling as part of the OMP;
- Off-base sampling of existing well (MW411 through MW415) to the east of East Bandiana characterise the known PFAS plume in off-base areas. With this improved monitoring between the base and the receptor, the sampling frequency of all on-base wells across East Bandiana can be reduced from biannual to annual. It will also provide better coverage to assess changes in PFAS concentration in groundwater once the East Bandiana aquifer remediation system is installed;
- Off-base monitoring within the Killara residential development through the newly installed monitoring well MW447; and
- Monitor additional wells in North Bandiana (MW343 and MW344) to provide data with which to better calculate groundwater flow contours in this portion of the base. This will also help better delineate identified PFAS in groundwater in MW342.

Defence is currently in the process of reviewing the base PMAP and associated OMP and will incorporate the above identified program alterations.

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Appendix J Results Interpretation Tables

A detailed summary of the OMP groundwater results in the context of the revised CSM is set out in the following table. Groundwater sampling locations have been grouped by Source Areas/areas of interest. Source Areas are shown in **Figure 2** while groundwater sampling locations are shown in **Figure 4**.

Table J.1: Interpretation of Groundwater OMR Results

Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
Shepparton Colluvium – Perched – On-base				
MW056	Source Area 9	This sampling location targets the shallow perched water in Source Area 9. Sampling was not completed during 2025 owing to misidentification of the well, although the well has been sampled during previous OMP rounds.	No analytical results from 2025. Trend analysis undertaken on the five points available for MW056 reported "no trend". This finding may be a result of perched water being shallow and more susceptible to site/weather conditions, compared to deeper true groundwater where results are more consistent.	MW056 is the only monitoring location targeting the perched water in Source Area 9. While not sampled in 2025, this location has however returned samples that indicate stability in PFAS concentration in this area, indicating little historic change in risk profile. In addition, surface water samples targeting the discharge point of the perched water in Source Area 9 (SW346, SW349 and SW355) were all able to be sampling during the 2025 eventing events. These surface water samples did not show a material change in conditions during 2025 (see **Table J.2** below) indicating the risk associated with the perched groundwater is unlikely to have changed during this period. The PFAS concentrations within Source Area 9 are considered consistent with the historical use of PFAS-containing products within this area.
Shepparton Colluvium – Shallow – On-base				
MW315, MW317, MW318	Source Area 2	These sample locations target Source Area 2. MW315 and MW317 were both sampled during the October 2025 sampling event. MW318 has consistently been dry during OMP.	During the October 2025 sampling round MW315 reported a first-time detection of PFAS above the laboratory LOR, noting this location had only been sampled twice previously during the OMP. The location had a sum of PFOS+PFHxS result of 0.05 µg/L, which is just above the LOR of 0.01 µg/L. MW317 reported a two orders of magnitude increase in PFAS concentrations during the October 2025 sampling event, noting again that only a single result has previously been obtained during the OMP. Results for sum of PFOS+PFHxS reported a concentration of 1.21 µg/L, higher than the previous result of 0.05 µg/L. It should be noted that trend analysis was not undertaken for MW317 due to insufficient data points. Trend analysis undertaken on MW315 reported "no trend", noting that only three data points are available for this location, making it less reliable compared to locations with additional data points (i.e. 8-10).	From a conceptual perspective, Source Area 2 is located part way up on the slopes of Bears Hill, with groundwater known to be relatively deep (i.e. approximately 42 mbgl) compared to the northern portion of South Bandiana. Based on the results from this area to date and the known geology, the limited PFAS in soil within this Source Area appears to have migrated primarily through surface water rather than groundwater. This position regarding pathways was confirmed based on the Mass Flux Study (JBS&G 2024b). The above-described situation is still considered applicable to Source Area 2, despite 2025 results from this area showing slightly different groundwater PFAS concentrations than has historically been recorded. During 2025, MW315 was required to be sampled by bailer (instead of HydraSleeve™) owing to a partial well blockage, while the sampling of MW317 encountered water within the well had that high turbidity, which may have contributed to a higher PFAS concentration at this location. In both instances, monitoring in future events is required to confirm ongoing concentrations. As discussed, a first-time detection was identified at this location. A review of the results and CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) did not identify the potential for migration to off-Base receptors due to slow migration of PFAS within groundwater on South Bandiana. No three-year rolling average was calculated as data is not available for this period. No other OMP triggers have been met at these locations. Therefore, no further action is required beyond existing monitoring.
MW311, MW304, MW305, MW307	Source Area 1	Monitoring wells MW307 and MW311 are located within Source Area 1. MW304 and MW305 is located further north and represents groundwater leaving the base to the north. All locations were sampled during the October 2025 sampling event. It should be noted that MW305 was only added to the OMP during 2025.	The analytical results from 2025 have been relatively consistent when compared with all OMP data, although it is acknowledged that the concentrations in MW307 appear to oscillate across individual sampling events. • MW304 reported a concentration of PFOS of 0.88 µg/L and PFHxS of 0.07 µg/L both above the NHMRC 2025 Drinking Water criterion. Both PFOA and PFBS were reported below the laboratory LOR. • MW307 reported a concentration of PFOS of 30 µg/L and PFHxS of 140 µg/L both exceed the NHMRC 2025 Drinking Water criterion and the PFAS NEMP Recreational criterion. Both PFOS and PFHxS results are within historical ranges. Concentrations of PFOA and PFBS exceeded the NHMRC Drinking Water criterion and reported concentrations within historical ranges of 10 µg/L and 30 µg/L respectively. • MW311 reported a new historical maximum concentration for PFOS of 0.06 µg/L, noting it is only marginally above the historical range of below LOR – 0.02 µg/L. PFHxS reported a new maximum concentration of 0.09 µg/L, compared to historical ranges of LOR – 0.02 µg/L. PFBS was reported below the laboratory LOR.	MW307 is located immediately adjacent the earthen bund in Source Area 1 which has been identified as formerly being used for firefighting activities. The highest PFAS in soil concentrations within Source Area 1 has been identified in the vicinity of the well and earthen bund, and recent investigations suggest shrinking and cracking of the predominantly clay geology in this area is a mechanism for PFAS to migrate to groundwater. It is acknowledged that results at this location has oscillated during recent sampling rounds, which may be attributed to recent investigations within these areas, the most recent of which was the installation of an extraction well immediately adjacent to MW307 (development of this well may have contributed to the PFAS concentration reductions experienced during October 2025). Remediation has been proposed for both soil and groundwater in the vicinity of MW307. This will assist in removing PFAS mass from groundwater, which owing to the low transmissivity nature of the aquifer, has not migrated away from the Source Area. Groundwater in the eastern portion of Source Area 1 (MW311) is characterised by low PFAS concentrations, consistent with the conceptual understanding of the Source Area. Concentrations of PFAS have increased slightly in the October 2025 monitoring event which could be due to migration of PFAS due to clay shrinkage or lateral diffusion of PFAS. Low concentrations of PFAS at MW304 and MW305 (located downgradient of MW307) are all indicative of the slow migration PFAS in groundwater at South Bandiana. MW304 is located directly down hydraulic gradient from MW307 and there is an approximate four orders of magnitude reduction in PFAS concentrations over the 260 m between the two locations. This is in line with the findings of the DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b).

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
			• All concentrations were below the LOR at MW305, with the exception of PFOS which reported a concentration of 0.01 µg/L (which is the detection limit) which exceeds the NHMRC 2025 Drinking Water criterion of 0.08 µg/L. Data analysis indicated "no trend" at both MW304 and MW307 while PFOS and PFHxS are trending up at MW311. Insufficient data points were available for MW305.	As discussed, PFOS and PFHxS are trending up at MW311. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) identified that migration pathways are already well understood, and no further assessment is required. The environmental conditions potentially contributing to this increase are discussed above, and will be addressed as part of future remedial works. Furthermore, a three-year rolling average was calculated to be 0.033 µg/L which exceeds the ANZG 2026 Freshwater (99% protection) criterion of 0.02 µg/L, although this exposure pathway has been assessed as part of the risk assessment (Golder 2020) and found to have a low and acceptable risk. No other OMP triggers have been met at these locations so no further action is required beyond existing monitoring.
MW051, MW416, MW323	Source Area 6	All sampling locations are positioned within Source Area 6, with the exception of MW323 which is downgradient.	Analytical results for 2025, are generally consistent with the November 2024 sampling event, which saw orders of magnitude increases in both MW051 and MW41 • MW051 reported a concentration of PFOS of 2.4 µg/L and PFHxS of 0.47 µg/L both exceed the NHMRC 2025 Drinking Water criterion while PFOS concentrations also exceed the PFAS NEMP Recreational criterion. Concentrations of PFOA and PFBS exceeded the NHMRC Drinking Water criterion. As noted above, all analytes are similar, albeit it slightly lower, than the elevated results identified during the previous sampling round. • MW416 reported a concentration of PFOS of 0.74 µg/L and PFHxS of 0.18 µg/L both exceed the NHMRC 2025 Drinking Water criterion. Concentrations of PFOA and PFBS were both reported below the laboratory LOR. As noted above, all analytes are similar, albeit it slightly lower, than the elevated results identified during the previous sampling round. • MW323 reported first time detections for an OMP sampling event for PFOS and PFHxS of 0.02 µg/L and 0.01 µg/L respectively. Concentrations of PFOS exceeded the NHMRC 2025 Drinking Water criterion. It is noted that similar concentrations were identified in this well during the DSI (Golder 2018). Trend analysis shows that concentrations of PFAS at MW051 are increasing but there is "no trend" of PFAS concentrations at MW323 and MW416 (despite an increase in concentrations) likely owing to the large amount of below LOR results in previous monitoring rounds.	Source Area 6 has been identified as a key Source Area within the PMAP owing to historic activities. PFAS in soils sampled across the source area has been defined through sampling both laterally and vertically with in the upper 1.0 mbgl. PFAS in groundwater has historically been low, although order of magnitude increases was identified in wells located within the Source Area during 2024. These elevated concentrations have persisted in 2025, albeit at slightly reduced concentrations. Despite individual wells showing increased PFAS concentrations and one well showing an increasing trend, wells downgradient of the Source Area show PFAS concentrations remain low, and PFAS impacts are likely restricted to the area in the immediate vicinity of the Source Area. It is noted that Source Area 6 will be subject to remediation works, which will comprise demolition of the current infrastructure and targeted soil treatment to reduce PFAS migration. This will assist in reducing PFAS mass within the Source Area, including a reducing in PFAS migrating to groundwater. As discussed, PFAS is trending up at MW051. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) identified that migration pathways are already well understood, and no further assessment is required. The remedial works as discussed above will reduce PFAS mass migrating to groundwater. Furthermore, a three-year rolling average was not calculated for the first-time exceedance of drinking water criteria as data from the previous two years is below the laboratory LOR. No other OMP triggers have been met at these locations so no further action is required beyond existing monitoring.
MW321, MW319	Source Area 7	Both sampling locations are on the downgradient boundaries of Source Area 7.	• The analytical results for MW319 have been relatively consistent across all OMP sampling rounds. MW319 reported a concentration of PFOS of 0.11 µg/L and PFHxS of 0.02 µg/L, PFOS concentrations exceed the NHMRC 2025 Drinking Water criterion. Both PFOS and PFHxS results are new historical minimums. Concentrations of PFOA and PFBS were both reported below the laboratory LOR. • Concentrations of PFAS at MW321 PFAS concentrations have decreased since 2024 (which reported a new maximum). MW321 reported concentration of PFOS of 540 µg/L and PFHxS of 140 µg/L both exceed the NHMRC 2025 Drinking Water criterion and the PFAS NEMP Recreational criterion. Concentrations of PFOA and PFBS exceeded the NHMRC Drinking Water criterion and reported concentrations within historical ranges of 8.9 µg/L and 1.6 µg/L respectively. Trend analysis shows that concentrations of PFHxS and PFOS at MW319 are decreasing. PFAS concentrations at MW321 show "no trend".	Source Area 7 has been identified as a key Source Area within the PMAP, with PFAS concentrations in soil and groundwater being some of the highest across the base, and the Source Area attributed to elevated PFAS concentrations in surface water. Shrinking and cracking of the predominantly clay geology in this area is considered the mechanism by which PFAS to migrate to groundwater, although a reduction in 2025 may be attributed to the installation of an extraction well immediately adjacent to MW321 (development of this well may have contributed to the removal of PFAS mass). Remediation has been proposed for both soil and groundwater in the vicinity of MW321. This will assist in removing PFAS mass from groundwater, which owing to the low transmissivity nature of the aquifer, has not migrated away from the Source Area. As discussed, PFAS is trending down at MW319. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence 2025) no reduction in the monitoring frequency of this location is recommended currently as this location was reduced from a bi-annual to annual monitoring frequency as part of the most recent OMP update. Furthermore, this sampling location may provide useful data one remediation starts at MW321. No other OMP triggers have been met at these locations.
MW329	Source Area 5	MW329 is located immediately to the west of Source Area 5.	The analytical results have been relatively consistent across all OMP sampling rounds. MW329 reported a concentration of PFOS of 0.05 µg/L and PFHxS of 0.3 µg/L, both exceed the NHMRC 2025 Drinking Water criterion. Both PFOS and PFHxS results are within historical ranges. PFBS reported a concentration of 0.14 µg/L, also within historical ranges.	Groundwater results from this location, coupled with findings from the DSI (Golder 2018) and the Mass Flux Study (JBS&G 2024b), have confirmed that groundwater is not a primary migration pathway for this Source Area.

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
			Trend analysis at MW329 reported "no trend" confirming the analytical results that PFAS concentrations are consistent.	
MW312	Northern boundary of South Bandiana	MW312 is located on the northern boundary of South Bandiana and provides an indication of groundwater conditions which are leaving the base to the north.	The analytical results have been relatively consistent across all OMP sampling rounds. MW312 reported a concentration of PFOS of 0.03 µg/L and PFHxS of 0.09 µg/L, both exceed the NHMRC 2025 Drinking Water criterion. Both PFOS and PFHxS results are within historical ranges. PFBS reported a concentration of 0.01 µg/L, also within historical ranges. Trend analysis at MW329 reported "no trend" confirming that PFAS concentrations are relatively consistent.	Groundwater results from this location, coupled with findings from the DSI (Golder 2018) and the Mass Flux Study (JBS&G 2024b), have confirmed that groundwater is not a primary migration pathway for this Source Area.
MW342, MW344, MW343	Source Area 12	MW342 is located immediately downgradient of Source Area 12 on North Bandiana. MW344 and MW343 are located downgradient of Source Areas 10 and 11 respectively. It should be noted that MW343 and MW344 were only added to the OMP during 2025.	• The analytical results have been relatively consistent across all OMP sampling rounds for MW342. This well reported a concentration of PFOS of 2.6 µg/L and PFHxS of 6.1 µg/L, both exceed the NHMRC 2025 Drinking Water criterion. PFOA reported a concentration of 0.21 µg/L exceeding the NHMRC Drinking Water criterion and PFBS reported a concentration of 0.87 µg/L. • MW344 and MW343 were sampled for the first time during the October 2025 sampling event. Reported concentrations were all below the laboratory LOR with the exception of PFOS which reported a concentration of 0.01 µg/L and 0.03 µg/L at MW344 and MW343 respectively. These concentrations exceed the AWDG Drinking Water criterion and are higher than the concentrations identified during the DSI (Golder 2018) (which were below LOR). Trend analysis at MW342 indicate that concentrations of PFOS are decreasing while all other PFAS show no trend.	PFAS concentrations within MW342 has historically and consistently been identified as elevated (i.e. > 1.0 µg/L). Although, based on the geology within the area and significantly lower concentrations downgradient from the location, these concentrations were considered to be confined to a small area. The Mass Flux Study (JBS&G 2024b), along with OMP results from MW343 and MW344, confirm this position. As discussed, PFOS is trending down at MW342. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence 2025) no reduction in the monitoring frequency of this location is recommended currently as this location has elevated concentrations compared to the surrounding locations and monitoring future condition changes is important to the OMP. Furthermore, this location has recently been reduced from a bi-annual to annual monitoring frequency in the most recent OMP update. No other OMP triggers have been met at these locations, so no further action is required beyond existing monitoring.
Shepparton Colluvium – Shallow – Off-base				
MW313	Western boundary of South Bandiana	MW313 is located close to the western boundary of South Bandiana between the base and Wodonga South residential development. As indicated above, the well is also used to provide downgradient data for the wells that are usually dry in Source Area 2.	MW313 reported a new historical maximum for PFOS of 0.03 µg/L, which exceeds the NHMRC 2025 Drinking Water criterion, noting this is only 0.01 µg/L higher than the previous high result. PFHxS, PFOA and PFBS were all reported below the laboratory LOR. Trend analysis indicated that there is no trend in concentrations of PFAS at this location.	Results confirm that PFAS in groundwater is not a primary pathway across this portion of the base boundary. A new historical maximum for PFOS was identified at this location. A review of the data indicated that this increase was minor and that PFOS concentrations at this location are not trending upwards. Based on the CSM, groundwater migration is particularly slow in this area owing to clayey geology. Following a review of the trigger values and responses outlined in the OMP (Defence 2025), a three-year rolling average was not calculated for the first-time exceedance of ecological criteria as data from the previous monitoring event is below the laboratory LOR. No other OMP triggers have been met at these locations, so no further action is required beyond existing monitoring.
MW302, MW303	Western boundary of South Bandiana	MW302 and MW303 are located close to the western boundary of South Bandiana between the base and Wodonga South residential development. The wells are used to provide downgradient data for Source Area 1, which is known to have elevated PFAS concentrations in groundwater. It should be noted that MW302 and MW303 were only added to the OMP during 2025.	MW302 and MW303 reported concentrations of PFOS, PFOA, PFBS and PFHxS all below the laboratory LOR. Insufficient data points were available for trend analysis for MW302 and MW303, as they are newly incorporated into the OMP. However, low levels of PFAS were detected at MW302 and MW303 during the DSI (Golder 2018), these concentrations were well below Tier 1 human health criteria, and below the adopted criteria as identified in **Section 5**.	The below LOR results for both MW302 and MW303 confirm PFAS is groundwater is largely restricted to on-base areas in this portion of the Management Area. This is in line with the findings of the DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b).
MW360, MW361	Jack in the Box Creek Catchment	MW360 and MW361 are located along the Jack in the Box Creek alignment, approximately 1.0 km and 2.5 km downgradient from the base boundary respectively. These are sampled to assist in understanding potential groundwater/ surface water interactions.	The analytical results have been relatively consistent for both wells across all OMP sampling rounds, although slight increases (i.e. far short of orders of magnitude) were identified in both locations during 2025. • MW360 reported a new historical maximum for PFOS of 0.19 µg/L, up from 0.16 µg/L in 2024. PFHxS reported a concentration of 0.12 µg/L. Both analytes exceed the NHMRC 2025 Drinking Water criterion. PFOA concentration was 0.01 µg/L, where all results have previously been below LOR. PFBS concentrations during 2025 remain consistent with historical results at below LOR. • MW361 reported a new historical maximum for PFOS of 0.27 µg/L, up from 0.26 µg/L in 2024. PFHxS reported a concentration of 0.11 µg/L.	The corresponding surface water OMP locations, SW427 and SW430 respectively, have not recorded the PFAS concentration increased that have been identified in the groundwater wells during 2025. It is possible that the dry conditions experienced during 2025 have reduced the interaction between surface water and groundwater in the lower portions of Jack in the Box Creek. As discussed, PFOS and PFOA are trending up at MW361. A review of the CSM and available data in line with the trigger levels and responses outlined in the OMP (Defence, 2025) have not identified a link between increasing concentrations at MW361 with potential migration of PFAS from the base. Unknown PFAS sources not associated with the base may be a contributing factor to the trend.

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
			Both analytes exceed the NHMRC 2025 Drinking Water criterion. Concentrations of PFOA were 0.03 µg/L which is consistent with historical ranges. PFBS concentrations during 2025 reported an equal historical maximum of 0.2 µg/L. Trend analysis at MW361 indicated that concentrations of PFOS and PFOA are trending up while there is no trend for PFHxS and PFBS. Trend analysis at MW360 reported no trend for PFOS, PFOA, PFHxS and PFBS.	
Shepparton and Coonambidgal Fluvium – Shallow – On-base				
MW345, MW346	Eastern boundary of North Bandiana	These wells are in the eastern portion of North Bandiana, with MW346 on the base boundary and MW345 approximately 250 m west of the base boundary.	The analytical results have been relatively consistent for both wells across all OMP sampling rounds. In 2025: • MW345 reported a concentration of PFOS of 0.04 µg/L and PFHxS of 0.15 µg/L, both exceed the NHMRC 2025 Drinking Water criterion. PFBS reported a concentration within historical ranges of 0.02 µg/L, while PFOA was below LOR. • MW346 reported a concentration of PFOS of 0.02 µg/L, exceeding the NHMRC 2025 Drinking Water criterion. PFHxS reported a concentration of 0.02 µg/L, while PFOA and PFBS were both below the laboratory LOR, with all three analytes being below criteria. Trend analysis undertaken at MW345 and MW356 reported "no trend" confirming that PFAS concentrations are relatively consistent.	The results confirm that groundwater is not a primary pathway for PFAS migration in this portion of the base, consistent with the findings of the Mass Flux Study (JBS&G 2024b).
MW052, MW403, MW404, MW350_S	Source Area 13	The sample locations target Source Area 13.	The analytical results have been relatively consistent for all wells across all OMP sampling rounds. In 2025: • Concentrations of PFOS ranged from 3.4 µg/L (MW052) to 54 µg/L (MW404). All locations exceeded the NHMRC 2025 Drinking Water and PFAS NEMP 2025 Recreational Water criterion. • Concentrations of PFHxS ranged from 2.6 µg/L (MW052) to 55 µg/L (MW404). All locations exceeded the NHMRC 2025 Drinking Water and PFAS NEMP 2025 Recreational Water criterion. • Concentrations of PFOA ranged from 0.22 µg/L (MW052) to 4.5 µg/L (MW404). All locations exceeded the NHMRC 2025 Drinking Water criterion. • Concentrations of PFBS ranged from 0.39 µg/L (MW052) to 8.1 µg/L (MW404). All locations except MW052 exceeded NHMRC 2025 Drinking Water criterion. Trend analysis undertaken indicates that PFOA concentrations are trending down at MW403. All other trend analysis results show that there is "no trend" in concentrations across Source Area 13.	The OMP groundwater and surface water results confirm the current conceptual understanding of Source Area 13, as detailed in the DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b). That being, that the Source Area was a major source of PFAS on-base, particularly to groundwater which has migrated across the base towards the Kiewa River, and that surface water is not a primary pathway, partially owing the development within the area. The data identifies that the down-gradient wells from the fire station facility (MW403, MW404 and MW350_S) have higher concentrations (approximately one order of magnitude) than the upgradient well (MW052). The consistent PFAS trends are also considered consistent with the conceptual understanding of this Source Area. In regard to the trigger levels and responses outlined in the OMP (Defence 2025) and the decreasing trend of PFOA identified at MW403, no reduction in the monitoring frequency of this location is recommended. Source Area 13 is the known source of the East Bandiana groundwater plume, and ongoing data from this area is important, particularly as remediation of the plume will be conducted. It should be noted that this location has been reduced from a bi-annual to annual monitoring frequency as part of the recent update of the OMP. No other OMP triggers have been met at these locations, so no further action is required beyond ongoing monitoring.
MW353, MW012, MW354, MW029	Groundwater conditions through the central portion of East Bandiana	These wells are located to assist in delineating the PFAS plume from Source Area 13. MW353 was unable to be sampled during the October 2025 sampling event.	Concentrations from the 2025 sampling event were generally consistent with previous monitoring rounds. • Concentrations of PFOS ranged from 0.08 µg/L (MW012) to 0.46 µg/L (MW029). All locations exceeded the NHMRC 2025 Drinking Water criterion. • Concentrations of PFHxS ranged from 0.14 µg/L (MW354) to 0.87 µg/L (MW029). All locations exceeded the NHMRC 2025 Drinking Water criterion. • Concentrations of PFOA ranged from below LOR (MW012 and MW354) to 0.05 µg/L (MW029). • Concentrations of PFBS ranged from 0.02 µg/L (MW012 and MW354) to 0.17 µg/L (MW029). Trend analysis undertaken indicates that PFBS concentrations are trending up at MW353. All other trend analysis results show that there is "no trend" in concentrations of other PFAS.	The East Bandiana PFAS plume has been defined as part of the DSI Addendum (JBS&G 2024a). This identified a relatively narrow plume which is largely confined to the top-most aquifer within Source Area 13 that expands laterally and into deeper parts of the aquifer by approximately the centre of East Bandiana, then remains relatively consistent until the base boundary. The OMP well results reflect this understanding, with MW353 close to the centre of the plume, while MW029 and MW354 are located on the southern and eastern edges of the plume respectively. The trend analysis shows that the plume is relatively consistent, which is consistent with the conceptual understanding of the source and its migration through the aquifer, as described in the DSI Addendum (JBS&G 2024a). This groundwater pathway will be the target of upcoming remediation, as it is the primary mechanism for PFAS migrating from this portion of the base. It is proposed to install a groundwater extraction and treatment system along the boundary of East Bandiana to reduce the migration of PFAS into off-base areas via groundwater. As discussed, PFBS is trending up at MW353. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) identified that migration pathways are already well

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
				understood, and groundwater from this location will be captured as part of the groundwater remediation system.
MW016, MW035, MW043, MW034, MW020, MW018	Groundwater conditions along the north central boundary of East Bandiana	The sample locations are positioned across the northern portion of East Bandiana to assist in downgradient delineation of the Source Area 13 PFAS plume in the shallow zone.	Concentrations of PFAS were generally slightly higher during the October 2025 sampling round when compared to previous monitoring rounds, although not in the range of orders of magnitude. • Concentrations of PFOS ranged from 0.82 µg/L (MW018) to 12 µg/L (MW043). All locations exceeded the NHMRC 2025 Drinking Water criterion. The previously reported maximum was 8.75 µg/L at MW035. • Concentrations of PFHxS ranged from 0.67 µg/L (MW018) to 9.6 µg/L (MW035). All locations exceeded the NHMRC 2025 Drinking Water criterion. Three locations consistently exceed the PFAS NEMP 2025 Recreational water criterion. These concentrations are within historical ranges. • Concentrations of PFOA ranged from 0.01 µg/L (MW018) to 0.72 µg/L (MW029). Three locations consistently exceed the NHMRC 2025 Drinking Water criterion. These concentrations are within historical ranges. • Concentrations of PFBS ranged from 0.08 µg/L (MW018) to 1.1 µg/L (MW035). MW035 exceeds the NHMRC 2025 Drinking Water criterion. These concentrations are within historical ranges. Trend analysis undertaken indicated that at MW018 concentrations of PFOS, PFHxS and PFOA are all trending upwards. PFHxS is also trending upwards at MW016 and PFOS is trending up at MW035. PFBS concentrations have been trending down at MW020 and up at MW353. All other results from the trend analysis indicated "no trend" in PFAS concentrations at these locations.	Based on the OMP results obtained, which are consistent with the results obtained during the DSI Addendum (JBS&G 2024a), the PFAS plume in shallow wells is broader than in the upgradient plume although concentrations are similar. This is likely to be a result of plume dispersion (due to the distribution of clays and sands in the shallow zone) and/or variable discharge processes within the floodplain area. Concentration increases identified during recent monitoring rounds may have been caused or enhanced owing to investigation works in the vicinity of the East Bandiana base boundary. Pumping tests and injection/extraction well development may have temporarily changed groundwater conditions within the aquifer zones, resulting in mobilisation of additional PFAS. This groundwater pathway will be the target of upcoming remediation, as it is the primary mechanism for PFAS migrating from this portion of the base. It is proposed to install a groundwater extraction and treatment system along the boundary of East Bandiana to reduce the migration of PFAS into off-base areas via groundwater. As discussed, PFAS is trending up at MW018, MW016 and MW035. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) identified that migration pathways are already well understood in this area, and groundwater from this location will be captured as part of the groundwater remediation system. No other OMP triggers have been met at these locations, so no further action is required beyond ongoing monitoring.
MW351, MW352	Northwestern boundary of East Bandiana	The wells are located on the northwestern boundary of East Bandiana and identify concentrations flowing towards the Killara residential area, south of the Murray Valley Highway. These wells also provide delineation of the Source Area 13 PFAS plume cross gradient to the north.	Concentrations from the sampling round were generally consistent with previous monitoring rounds. In 2025: • Concentrations of PFOS ranged from 0.021 µg/L (MW352) to 0.022 µg/L (MW351). Both locations exceeded the NHMRC 2025 Drinking Water criterion, however, are within historic ranges. • Concentrations of PFHxS ranged from 0.009 µg/L (MW352) to 0.029 µg/L (MW351). These concentrations do not exceed adopted criteria and are within historic ranges. • Concentrations of PFOA ranged from 0.002 µg/L (MW352) to 0.004 µg/L (MW351) and are within historical ranges. No criterion exceedances. • Concentrations of PFOA ranged from 0.002 µg/L (MW352) to 0.005 µg/L (MW351) and are within historical ranges. No criterion exceedances. Trend analysis undertaken shows PFOS and PFHxS concentrations trending upwards at MW351 while PFOA, PFHxS and PFBS are trending up at MW352.	MW351 and MW352 are both located to the northwest of the main PFAS plume emanating from Source Area 13 on East Bandiana and have both seen increasing PFAS concentrations trends, although it is noted all increases are minor in nature (i.e. far less and an order of magnitude). The increasing concentrations are likely due to ongoing dispersion of the known PFAS plume located to the south. These observations are consistent with the conceptual understanding of this portion of the base. These wells provide an indication of PFAS concentrations flowing into the Killara residential area, south of the Murray Valley Highway. While there are known groundwater uses within this area, these have been considered as part of the previous risk assessment (Golder 2020) and the risk identified as low and acceptable. In regard to the trigger levels and responses outlined in the OMP (Defence, 2025) and as discussed above. Increasing trends identified at these locations are likely due to plume dispersion. Furthermore, the migration pathways are well understood in this portion of the base. No changes to monitoring are currently proposed. MW352 reported a first time exceedance of ecological criterion for PFOS, the three year rolling average is calculated to be 0.0174 µg/L below the ANZG Freshwater (99%) criterion of 0.02 µg/L. No other OMP triggers have been met at these locations, so no further action is required beyond ongoing monitoring.
Shepparton and Coonambidgal Fluvium – Intermediate – On-base				
MW009, MW042, MW046_I	Northern boundary of East Bandiana	These wells are intended to assist in delineating the Source Area 13 plume in the intermediate zone of the aquifer.	Concentrations from the sampling round were generally consistent with previous monitoring rounds. In 2025: • Concentrations of PFOS ranged from 2.6 µg/L (MW046_I) to 5.6 µg/L (MW009). All locations exceeded the PFAS NEMP 2025 Recreational Water and Drinking Water criteria. • Concentrations of PFHxS ranged from 1.3 µg/L (MW046_I) to 5.6 µg/L (MW009). The results from MW009 and MW042 exceed PFAS NEMP	The reported concentrations for MW009 and MW042 indicate they are close to the centre of the plume, with MW046_I located to the east with slightly reduced PFAS concentrations. The DSI Addendum (JBS&G 2024a) identified the intermediate zone at East Bandiana was continuous and had higher PFAS concentrations than the shallower aquifer which was discontinuous in parts. The OMP results are consistent with these conclusions. As discussed, PFOA and/or PFBS are trending down within the intermediate aquifer. A review of the CSM, in line with the trigger levels and responses outlined in the OMP (Defence 2025), indicate no reduction in the monitoring frequency of this location is recommended. This intermediate zone of the aquifer is

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
			2025 Recreational Water and Drinking Water criteria, while MW046_I only exceeds Drinking Water criterion. • Concentrations of PFOA ranged from 0.06 µg/L (MW046_I) to 0.44 µg/L (MW009). The results from MW009 and MW042 exceed NHMRC 2025 Drinking Water criterion. • Concentrations of PFBS ranged from 0.08 µg/L (MW046_I) to 0.7 µg/L (MW009) and are within historical ranges. Trend analysis undertaken indicates that PFBS concentrations are trending down at MW042 and MW046_I. PFOA is also trending down at MW042. All other trend analysis results show that there is "no trend" in concentrations of other PFAS.	targeted as part of the East Bandiana groundwater plume remediation, and ongoing data from this zone is important from a remedial perspective. It should be noted that this location has been reduced from a bi-annual to annual monitoring frequency as part of the recent update of the OMP. No other OMP triggers have been met at these locations, so no further action is required beyond ongoing monitoring.
Shepparton and Coonambidgal Fluvium – Deep – On-base				
MW350_D	Source Area 13	The sample location is positioned in Source Area 13 to identify PFAS concentrations in the deeper portion of the aquifer.	Concentrations from the sampling round were generally consistent with previous monitoring rounds. In 2025: • PFOS reported a concentration of 0.57 µg/L above the historical maximum of 0.52 µg/L, which exceeded the NHMRC 2025 Drinking Water criterion. • PFHxS reported a concentration of 0.33 µg/L slightly above the historical maximum of 0.32 µg/L, which exceeded the NHMRC 2025 Drinking Water criterion. • PFOA reported a concentration of 0.02 µg/L consistent with historical results. No criterion exceedances. • PFBS reported a concentration of 0.04 µg/L within historical ranges. No criterion exceedances. Trend analysis undertaken shows PFOS and PFHxS concentrations trending upwards at this location, while PFOA and PFBS show "no trend".	The PFAS concentrations in the deep well in Source Area 13 are approximately two orders of magnitude less than those in the shallow well, which is consistent with the findings of the DSI Addendum (JSB&G 2024a). This relationship is due to low hydraulic conductivity clay layers between the wells in this portion of the base. As discussed PFOS and PFHxS are trending up at this location. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence, 2025) identified that migration pathways are already well understood. Furthermore, downgradient well MW046_D does not show the same increasing trends. No changes to monitoring are currently proposed. No other OMP triggers have been met at this location, so no further action is required beyond ongoing monitoring.
MW046_D	Northern boundary of East Bandiana	The sample location is positioned in the northern portion of East Bandiana and is intended to assist in delineating the PFAS plume in the deep aquifer from Source Area 13.	The analytical results have been relatively consistent across all OMP sampling rounds, with a sum of PFOS+PFHxS concentrations from 2025 being 3.7 µg/L, while historically ranges have been between 2.77 and 5.5 µg/L. All results from this well exceed PFAS NEMP 2025 Recreational Water and Drinking Water criteria. Trend analysis undertaken shows that PFBS concentrations are tending downwards at this location while PFOS, PFHxS and PFOA are all show "no trend".	The PFAS concentrations in the deep aquifer are approximately the same as those in the overlying intermediate aquifer, which is consistent with the findings of the DSI Addendum (JSB&G 2024a) which identified interconnection between the aquifers in the northeastern portion of the base. As discussed, PFBS is trending down at this location. A review of the CSM in line with the trigger levels and responses outlined in the OMP (Defence 2025) no reduction in the monitoring frequency of this location is recommended. This deep zone of the aquifer is targeted as part of the East Bandiana groundwater plume remediation, and ongoing data from this zone is important from a remedial perspective. It should be noted that this location has been reduced from a bi-annual to annual monitoring frequency as part of the recent update of the OMP. No other OMP triggers have been met at this location, so no further action is required beyond ongoing monitoring.
Shepparton and Coonambidgal Fluvium – Shallow – Off-base				
MW356, MW357	Kiewa River floodplain	The sample locations are positioned along the Kiewa River.	The analytical results have been consistent across all OMP sampling rounds, with Sum of PFOS+PFHxS concentrations from 2025 ranging from below LOR to 0.06 µg/L within the historical range of below LOR and 0.08 µg/L. In 2025: • PFOS reported concentrations of 0.02 µg/L, below the historical maximum of 0.04 µg/L and exceeds the NHMRC 2025 Drinking Water criterion. • PFHxS reported concentrations of 0.04 µg/L, equal to the historical maximum and exceeds the NHMRC 2025 Drinking Water criterion. Trend analysis undertaken show no trend show "no trend" for PFAS.	The Kiewa River is a gaining stream (i.e. a waterway which receives groundwater), with the monitoring wells MW356 and MW357 showing very low PFAS concentrations discharging into the river from groundwater. It is noted that sampling of surface water in the Kiewa River at or downgradient of the wells has not identified PFAS concentrations above LOR (refer to **Table J.2**).
MW411, MW412,	Kiewa River oxbows	These locations are positioned to monitor the known PFAS groundwater plume to the	These locations were sampled for the first time in 2025 as part of the OMP, although all wells were previously sampled during the DSI Addendum (JBS&G 2024a).	Results from this area are relatively consistent with the concentrations identified along the boundary of East Bandiana and surface water concentrations within the nearest oxbow in the Kiewa River floodplain. This is consistent with the findings of the DSI Addendum (JBS&G 2024a).

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
MW413, MW414, MW415		northeast of East Bandiana, prior to discharging into the oxbows in the floodplain. It should be noted that all locations were only added to the OMP during 2025.	• Concentrations of PFOS ranged from 0.51 µg/L (MW413) to 5.4 µg/L (MW415). All results exceeded the NHMRC 2025 Drinking Water criterion. Concentrations at MW412 and MW415 exceed the PFAS NEMP 2025 Recreational water criterion. • Concentrations of PFHxS ranged from 0.48 µg/L (MW411) to 6.4 µg/L (MW415). All results exceeded the NHMRC 2025 Drinking Water criterion. Concentrations at MW415 exceed the PFAS NEMP 2025 Recreational water criterion. • Concentrations of PFOA ranged from 0.02 µg/L (MW413) to 0.6 µg/L (MW415). Both results from MW415 exceeded the NHMRC 2025 Drinking Water criterion. • Concentrations of PFBS ranged from 0.04 µg/L (MW413) to 1.1 µg/L (MW415). One result during the October 2025 sampling event exceeded the NHMRC 2025 Drinking Water criterion. No trend analysis was undertaken at these locations due to a lack of previous OMP rounds. However, review of historical data collected as part of the DSI Addendum (JBS&G 2024a), did identify results to be within historical ranges, with the exception of MW411 and MW415 which have seen slight concentration increases (although less than an order of magnitude).	This groundwater pathway will be the target of upcoming remediation, as it is the primary mechanism for PFAS migrating from this portion of the base. While it is proposed to install the groundwater extraction and treatment system upstream of this location (i.e. along the boundary of East Bandiana), the system will prevent PFAS migration into the off-base areas and flush the aquifer with cleaned groundwater, resulting in a reduction of PFAS in groundwater off-base.
MW447	Unnamed creek	This location has been positioned to investigate the potential migration of PFAS impacted groundwater from North Bandiana into off-base areas. It should be noted that this sample location was only added to the OMP during 2025.	These locations were sampled for the first time in 2025 as part of the OMP. • PFOS reported a maximum concentration of 0.07 µg/L exceeding the NHMRC 2025 Drinking Water criterion in both sampling events. • PFHxS reported a maximum concentration of 0.09 µg/L exceeding the NHMRC 2025 Drinking Water criterion in both sampling events. • PFOA and PFBS were reported below the limit of reporting in both monitoring events. No trend analysis was undertaken at this location due to a lack of data points.	PFAS concentrations at MW447 are considered to be consistent with those reported in the North Bandiana wells of MW346 and MW345. This would indicate that low level PFAS concentrations are migrating off-base from North Bandiana into the residential area of Killara. While this is the first year groundwater data has been available off-base to the east of North Bandiana, this scenario, including potential exposure pathways, have previously been considered in previous investigations, including the HHERA (Golder 2020). Defence continues to monitor potential groundwater use within the Management Area.
Other Aquifer – Off-base				
OTH019	Private Property	Groundwater location OTH019 represents a point of potential human health exposure in a private property where bore water is used for irrigation of home grown produce and stock watering (chickens).	The analytical results have increased slightly during recent monitoring events, which is confirmed by the trend analysis (see below). During 2025, PFOS, PFHxS and PFBS all recorded new maximums compared to historic data, although only minor concentration increases have been identified (i.e. less than an order of magnitude). During 2025, PFOS reported a concentration of 0.15 µg/L and PFHxS of 0.3 µg/L both exceed the NHMRC 2025 Drinking Water criterion. PFOA and PFBS reported concentrations of 0.007 µg/L and 0.018 µg/L respectively. Trend analysis undertaken indicated that concentrations of PFOS, PFHxS, PFOA and PFBS were all trending up.	OTH019 has seen a steady increase in PFAS concentrations, which is likely due to ongoing dispersion of the known PFAS plume located to the south. While the 2025 result in OTH019 has not be repeated in the upgradient on-base well MW352, it is important to note that the construction details for OTH019 are not known and thus it is not known which aquifer/aquifers the well targets. It is noted that since November 2024, a lower detection limit has been used at this location. This has led to first time detection of PFBS and PFOA below the previous LOR. Further monitoring will be needed to confirm ongoing trends for these two analytes. Risk Management Actions from the PMAP (Defence 2020) result in regular sampling of this location and ongoing stakeholder engagement with the property owner to ensure current and potential risks relating to PFAS in groundwater are appropriately managed. Furthermore, with the PMAP program moving into a remediation phase, PFAS concentrations within the East Bandiana aquifer pathway will be subject to remediation, and therefore PFAS migration into off-base areas via groundwater will be reduced over the long term.

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A detailed summary of the OMP surface water results in the context of the revised CSM is set out in the following table. Surface water sampling locations from the top of the catchment are presented first, followed by those further down the catchment and presented in groups targeting Source Areas or pathways. Surface water sampling locations are shown in **Figure 5A** and **5B**.

Table J.2: Interpretation of Surface Water OMR Results

Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
Jack in the Box Creek Catchment – On-base				
SW302, SW307, SW310	Source Area 2	These sampling locations target Source Area 2 and the drainage channel which runs beside an internal road before converging with surface water from Source Area 1 and discharging off-base. All three locations were unable to be sampled during the 2025 monitoring period.	No results for 2025 monitoring period	The collection of surface water results from Source Area 2 has been inconsistent, which is likely related to the steeper topography in this part of the base draining stormwater quickly away. As discussed in **Section 6.1,** 2025 was a drier than average year which made the collection of samples from this area difficult. Surface water sample locations downgradient from Source Area 2 (SW311 and SW463) were also predominantly dry during the 2025 monitoring period, so no new data has been obtained during the year. Given recent development works were restricted to the western portion of the CTA, it is considered unlikely that the sub-catchment containing Source Area 2 has been disturbed during 2025, indicating there are unlikely to be changed conditions within this Source Area.
SW321, SW313, SW316, SW311	Source Area 1	These sampling locations target Source Area 1, including the off-base discharge point towards Jack in the Box Creek (SW311). All locations, except SW316, were unable to be sampled during the 2025 monitoring period owing to dry conditions.	PFOS concentrations at SW316 reported a concentration of 0.43 µg/L which exceed the NHMRC 2025 Drinking Water and ANZG 2026 Freshwater 99% criteria. The reported concentration is within historical ranges of 0.11-0.91 µg/L. SW316 also reported PFHxS concentrations exceeding the NHMRC 2025 Drinking Water criterion of 0.04 µg/L, although this result was a new historical minimum concentration below the previously recorded range of 0.05-0.50 µg/L.	While minimum additional data was obtained during 2025 for this Source Area, the single result which was obtained from SW316 is consistent with historical data and the findings of the Mass Flux Study (JBS&G 2024b). That being that Source Area 1 is a key contributor of PFAS to surface water, with order of magnitude increases to PFAS concentrations from surface water leaving Source Area 1, compared to surface water further upgradient (i.e. Source Area 2). These results have been contributed to widespread low-concentration PFAS in soils across the Source Area. Defence proposed implement remediation within this area to reduce PFAS in surface water concentrations by treating surface soils and drainage channels. If successful, there may be broader applications across the base.
SW336	Source Area 6	SW336 is collected from the Fire Training Area retention/recirculation pond. SW336 was collected during E8 sampling event, however, could not be collected during E9 owing to access.	Concentrations of PFOS, PFHxS and PFOA for this sample location were all reported as new historical maximums during the 2025 monitoring period. PFOS and PFHxS reported concentrations of 15 µg/L and 6.9 µg/L respectively, exceeding ADWG 2026 Recreational criterion of 2 µg/L. PFOA reported a concentration of 3.5 µg/L exceeding the NHMRC 2025 Drinking Water criterion of 0.2 µg/L. Concentrations of PFOS also exceeded the ANZG 2026 Freshwater 99% and 95% protection criteria of 0.02 µg/L and 0.9 µg/L respectively.	Historically elevated concentrations have been identified at this location during the OMP, DSI (Golder 2018) and DSI Addendum (JBS&G 2024a). This is attributed to the Fire Training Area hardstand containing PFAS, which leaches into surface water during rainfall and is carried into the retention/recirculation pond. While a new maximum concentration has been identified at this location, it is noted that the retention/recirculation pond is a closed system. The surface water does not flow into the balance of the base to become a risk to potential receptors. It was observed during the E8 sampling event that the water level within the pond was lower than in previous rounds, which may have concentrated PFAS within the available water resulting in higher concentrations. It is noted that Source Area 6 will be subject to remediation works, which will consist of demolition of the current infrastructure (including the retention/recirculation pond) and targeted soil treatment. This is intended to reduce overall PFAS mass across the base and assist with reducing PFAS migrating through surface water.
SW338, SW333	Source Area 5	These sample locations both relate to Source Area 5, with SW338 being located within the pond in the facility, while SW338 targets a drainage channel which flows west towards Jack in the Box Creek.	PFOS concentrations at SW338 reported a new historic maximum concentration of 1.1 µg/L, above the NHMRC 2025 Drinking Water criterion. The reported concentrations from the OMP have previously ranged from 0.53 – 1.06 µg/L, although during the DSI (Golder 2018), PFOS was recorded at 5.28 µg/L. SW338 also reported PFHxS concentrations of 0.33 µg/L exceeding the NHMRC 2025 Drinking Water criterion of 0.03 µg/L. PFOS concentrations at SW333 reported a new historical maximum concentration of 1.7 µg/L. PFOS and PFHxS concentrations at SW333 are consistently above the NHMRC 2025 Drinking Water criteria. Concentrations of PFOS also exceeded the ANZG 2026 Freshwater 99% and 95% protection criteria of 0.02 µg/L and 0.9 µg/L respectively.	Both SW338 and SW333 have demonstrated slightly increased PFAS concentrations during the 2025 monitoring period. The concentrations at SW338 are within historic ranges, although it would appear that the highest concentrations are experienced during dry periods. As the water body sampled is a pond, this is consistent with similar water bodies (i.e. SW336 above), whereby lower water levels are experienced during drier periods, which may have concentrated PFAS within the available water resulting in higher concentrations. While new maximum concentrations have been identified at SW333, it is also noted that road-regrading and drainage cleaning works have occurred immediately upgradient of the location which is likely to have disturbed PFAS affected sediments. A similar trend has also been identified at SW332 immediately upgradient from SW333. Based on these known works within the area, this location should continue to be monitored to understand if PFAS concentrations return to pre-works levels. Overall, the results of surface water at Source Area 5 are consistent with the conceptual understanding of the area or attributed to recent civil works within the area.
SW448, SW326, SW332, SW324,	South Bandiana drainage pathway between Source	These sample locations are positioned on the main stormwater channel which collect surface water from Source Area 5, 6 and 7 and drain it towards Jack in the Box Creek. SW322 is	For the OMP sampling events, all results from these sampling locations have been relatively consistent with historical results, with the exception of SW326 and SW332. The majority of the sample locations within this sub-catchment exceeded NHMRC 2025 Drinking Water and	The 2025 results for this migration pathway are generally consistent with the findings of the DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b). These documents identified that both Source Area 6 and 7 are key contributors to PFAS in surface water, which is why PFAS concentrations are being observed higher in the catchment (i.e. SW448 and SW326). As the catchment is not large and does

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
SW323, SW322	Areas and base boundary	representative of water conditions as it leaves base.	ANZG 2025 Freshwater 99% protection criteria including SW322 on the base boundary. SW448 and SW323 also exceeded the ANZG Freshwater 95% protection criteria	not receive water from off-base areas, there is not a significant amount of dilution occurring across the sub-catchment, which sees PFAS concentrations remaining relatively similar across the sub-catchment. The influence of road-regrading and drainage cleaning works within this sub-catchment has been identified within the surface water data. Both SW326 and SW332 saw significant PFAS concentration increases around the time of the works (i.e. when PFAS impacted sediments were disturbed), while data from later in 2025 shows a return to historical PFAS concentrations levels. Based on these known works within the area, these locations should continue to be monitored to ensure PFAS concentrations stabilise following works.
Jack in the Box Creek Catchment – Off-base				
SW463, SW424, SW427	Upper portion of Jack in the Box Creek Catchment	SW463 and SW424 represent conditions immediately off-base in the Jack in the Box Creek catchment, with SW427 being further downstream. All locations were sampled at least once during the 2025 monitoring period with the exception of SW463.	Sum of PFOS+PFHxS concentrations from the 2025 sampling rounds for this portion of the catchment has been lower than previous sampling rounds, with concentrations ranging from 0.06 µg/L to 1.11 µg/L. The results exceed PFAS NEMP 2025 Drinking Water and ANZG 2026 Freshwater 99% protection criteria, which is consistent with historical data, although less than PFAS NEMP 2025 Recreational Water criterion.	The results of the upper portion of Jack in the Box Creek from 2025 is considered consistent with the findings of previous investigations, including the Mass Flux Study (JBS&G 2024b). PFAS from Source Areas in the western portion of South Bandiana influence concentrations within the upper portion of the creek, although these concentrations reduce further north in the creek, which is reflective of the distance of this area from the base and dilution in the off-base stormwater system. It is important to note that the lower PFAS concentrations identified at SW424 and SW427, would indicate that onsite works (i.e. road-regrading and drainage cleaning works) which has affected some on-base locations, appears to not have greatly affected off-base areas of the catchment.
SW430, SW431, SW432, SW434	Lower portion of Jack in the Box Creek Catchment	These sampling locations are representative of the lower reaches of Jack in the Box Creek catchment, with SW434 representing the confluence between Jack in the Box Creek and Wodonga Creek.	All sampling location results have been relatively consistent across the sampling rounds, with the 2025 PFOS concentrations of below LOR to 0.06 µg/L, being within the historical range of below LOR to 0.15 µg/L. Results from all locations generally exceed the NHMRC 2025 Drinking Water criteria. All locations except SW430 and SW434 exceeded the ANZG Freshwater 99% protection criterion.	As seen with the samples above (SW424, SW427 and SW463), there is a trend of decreasing PFAS concentrations with distance from the base, with SW434 at the discharge point of the Jack in the Box Creek, having all results consistently below PFAS NEMP 2020 Drinking Water criterion, including the two rounds during 2025.
Kiewa River Catchment – On-base				
SW340	Source Area 5	This sample location represents surface water drainage downgradient of the western portion of Source Area 5.	No results for this location were collected during the 2025 monitoring period owing to dry conditions.	The locations in the immediate vicinity of SW340, both upgradient and downgradient, showed slight PFAS concentration increases during 2025 as a result of dry conditions and on-base road-regrading and drainage cleaning works. It is considered this trend would have also been reflected in SW340 results if a sample could have been collected during 2025, although it is considered likely these results would have been within historical ranges. From a conceptual perspective, as identified in previous investigations including the Mass Flux Study (JBS&G 2024b), Source Area 5 contributes higher PFAS concentrations to surface water compared to other Source Areas.
SW346, SW349, SW355	Ornamental ponds along northern boundary of South Bandiana	The three sample locations are positioned in three of the main ornamental ponds located on the main drainage pathway between Source Area 5 and North Bandiana.	For all OMP sampling events, results from these locations have remained consistent, with all samples exceeding the NHMRC 2025 Drinking Water and ANZG 2026 Freshwater 99% protection criteria, but not the PFAS NEMP 2025 Recreational Water criterion, for PFOS and PFHxS. 2025 results for PFOS ranged from 0.13 µg/L to 1.30 µg/L and PFHxS ranged from 0.04 µg/L to 0.32 µg/L. Results from all locations except SW355 exceeded the ANZG 2026 Freshwater 95% protection criterion.	Consistent with the results above, relating to dry conditions and on-base civil works, slightly elevated PFAS concentrations (although less than an order of magnitude) have been identified in the first two ornamental ponds (reflective of samples SW346 and SW349) at the end of 2024 and throughout 2025. This increase has not been identified in the most downgradient pond in the series (from which SW355 is collected), which ultimately assists with lower PFAS concentrations when the site surface water leaves the base at North Bandiana. Consistent with historic investigations, including Mass Flux Study (JBS&G 2024b), there is a decreasing trend of PFAS concentrations between the first and last pond in the series. This decrease is currently around an order of magnitude.
SW370, SW374, SW375	Main drainage channel of North Bandiana	The three sample locations are positioned along the main drainage channel of North Bandiana (which also collects surface water from South Bandiana), with SW375 representing conditions as water leaves the base.	For all OMP sampling events, results from these locations have remained consistent with previous sampling rounds. All samples collected during 2025 exceeding the NHMRC 2025 Drinking Water and ANZG 2026 Freshwater 99% protection criteria for PFOS (ranging from 0.06 µg/L to 0.09 µg/L) with all other PFAS being under adopted criteria.	Consistent with the findings of the Mass Flux Study (JBS&G 2024b) and previous OMP sampling events, surface water PFAS concentrations in the lower portion of the North Bandiana on-site catchment are lower than the results further upstream. Conceptually, this is the result of having no Source Areas that contribute PFAS concentrations to surface water within this portion of the base. It is further noted that the slight increases in PFAS concentrations identified in the upper sub-catchment during 2025, was not reflected as higher concentrations when the surface water left base.
SW379, SW380	Source Area 13	Both sample locations are positioned in surface water drainage locations surrounding Source Area 13.	No results for these locations were collected during the 2025 monitoring period owing to dry conditions.	The collection of surface water from this portion of the base is inconsistent during OMP sampling events, with only around half of the planned samples collected since 2021. This trend persisted into 2025, where dry conditions prevented the collection of these samples. Previous assessments, particularly the DSI Addendum (JBS&G 2024a), identified that most of Source Area 13 had previous been developed, resulting in widespread hardstand across the area which

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
				prevents PFAS contributing to the surface water pathway. No known works occurred within this area during 2025, and surface water results are expected to be consistent with previously documented conditions.
SW382	Sediment pond East Bandiana	SW382 is collected from a stormwater retention basis in the northwestern portion of the base.	For all OMP sampling events, PFOS and PFHxS results have been consistently below the LOR, with the exception of the May 2025 event, which reported a PFOS concentration of 0.01 µg/L which exceeds the NHMRC 2025 Drinking Water Criterion. It is noted that PFOS was reported below the laboratory LOR in the following October 2025 sampling events.	As per the Mass Flux Study (JBS&G 2024b), stormwater is not considered a key PFAS migration pathway for East Bandiana, particularly given the pathway where SW382 is situated (the western outlet) is the less PFAS affected of the two East Bandiana surface water outlets (the eastern outlet receives stormwater from Source Area 13). This is likely the reason SW382 had sampling results consistently below the LOR.
SW387, SW388	Eastern drainage pathway from East Bandiana	Both sample locations are positioned on the eastern drainage pathway between East Bandiana and the discharge point at the Kiewa River.	For all OMP sampling events, results from these locations have remained relatively consistent, with all samples exceeding the NHMRC 2025 Drinking Water and ANZG 2026 Freshwater (99% protection) criteria for PFOS. 2025 results for PFOS ranged from 0.03 µg/L to 0.24 µg/L and PFHxS ranged from 0.02 µg/L to 0.28 µg/L.	The results from the 2025 monitoring are considered relatively consistent with previous investigations (i.e. DSI Addendum (JBS&G 2024a) and Mass Flux Study (JBS&G 2024b)), which identified a direct link between the East Bandiana surface water discharge point and surface water from Source Area 13, and also surface water not being a primary pathway for PFAS flux for East Bandiana. While slight increases in PFAS concentrations were identified in SW387 compares to previous sampling rounds, it is noted this increase has not been reflected in the down gradient location, which discharges into the Kiewa River. SW387 is located at the point of where the below ground stormwater system discharges into the above ground stormwater swale, and presents a more dynamic environment (hence more variable results) compared with SW388 further downstream.
Kiewa River Catchment – Off-base				
SW409, SW412, SW462	Unnamed creek and associated oxbows – Northern and Central Pastoral Areas	These sample locations are positioned along the unnamed creek, in and down-gradient of the residential development of Killara. The locations receive surface water flow which exits North Bandiana.	All sampling location results have been relatively consistent across the sampling rounds, with all samples exceeding the NHMRC 2025 Drinking Water criterion for PFOS except for the E3 event which reported concentrations below the LOR. During the 2025 monitoring period, all samples exceeded the NHMRC 2025 Drinking Water criterion and the majority exceeded the ANZG 2026 Freshwater (99% protection) criterion. 2025 results for PFOS ranged from 0.02 µg/L to 0.07 µg/L and PFHxS ranged from 0.02 µg/L to 0.28 µg/L.	Results from 2025 are in line with historic data. Results from the off-base portion of unnamed creek are at similar concentrations or lower than the results which exist the base at North Bandiana (i.e. SW370, SW374, SW375). It is further noted that the slight increases in PFAS concentrations identified in the upper sub-catchment during 2025, was not reflected as higher concentrations when the surface water left base.
SW403, SW405	Oxbows – Central Pastoral Area	SW403 and SW405 are sampled from oxbow lakes within the Central Pastoral Area.	All sampling location results have been relatively consistent across the sampling rounds, with all samples exceeding the ANZG 2026 Freshwater (99% protection) and the NHMRC 2025 Drinking Water criteria for PFOS and all but two samples for PFHxS. 2025 results for PFOS ranged from 0.06 µg/L to 0.19 µg/L and PFHxS ranged from 0.06 µg/L to 0.13 µg/L.	It is considered likely that these oxbows receive some surface water flow from oxbows in the Southern Pastoral Area, resulting in higher PFAS concentrations compared with the immediately adjacent Kiewa River or the neighbouring unnamed creek. 2025 results are consistent with historic data which is consistent with other surface water results from across the Kiewa River catchment.
SW395, SW396, SW397, SW400, SW401, SW470, SW471, SW487	Oxbows – Southern Pastoral Area	These sampling locations are positioned across the Kiewa River floodplain in the Southern Pastoral Area.	For all OMP sampling events, results from these locations have remained relatively consistent, with SW397 and SW487 exhibiting the highest concentrations of 2.79 to 8.3 µg/L for PFOS and 3.41 µg/L to 4.7 µg/L for PFHxS, while the balance of locations ranged from 0.03 to 2 µg/L for PFOS and 0.03 µg/L to 3.2 µg/L for PFHxS.	The results obtained as part of the OMP, are consistent with the conceptual understanding of this area developed through the DSI Addendum (JBS&G 2024a) and the Mass Flux Study (JBS&G 2024b). These documents identified a relatively continuous sandy zone across East Bandiana which is considered likely to directly intercept the oxbow (SW487 and SW397 samples). This direct pathway is the cause of the PFAS at this oxbow being higher than in other oxbows in the floodplain. While other oxbows are likely to also receive groundwater discharge from this aquifer, the pathway connection is not as significant (i.e. the SW487/SW397 oxbow has been deepened) and the other oxbows are a greater distance from the base boundary, resulting in lower PFAS concentrations. While the majority of results from the 2025 sampling event are within historic ranges, it is acknowledged that some of the highest recorded PFAS concentrations have been identified at several locations (i.e. highest sum of PFOS+PFHxS concentrations at SW396, SW397 and SW487) during this time. It should be noted that 2025 was a drier than average year which may have resulted in the drying and shrinkage of many of the oxbow water bodies, increasing the PFAS concentration in surface water. This type of scenario has been taken into consideration as part of the HHERA (Golder 2020) and therefore these higher results is not considered to change the risk profile within this area. Furthermore, the above identified groundwater pathway will be the target of upcoming base remediation, as it is the primary mechanism for PFAS migrating from this portion of the base. The groundwater extraction and treatment system, which is to be installed along the boundary of East Bandiana, is designed to reduce the migration of PFAS into off-base areas via groundwater. Over time, this will also see the reduction of PFAS in oxbows in the Kiewa River floodplain.

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Sample Location/s	Target Area	Monitoring Undertaken	Discussion of Results and Screening Criteria Exceedances	Rationale for Observed Results/Changes
SW390	Kiewa River – upstream	This location represents background concentrations in the Kiewa River as it is positioned both upgradient of the base and the North East Region Water Corporation WTP.	For all OMP sampling events, results have consistently been below the LOR for this location, including for the 2025 sampling events.	This finding is consistent with the conceptual understanding of the area, with limited to no PFAS sources being known in the up-stream areas of the Kiewa River.
SW393	Middle Creek, close to Kiewa River confluence	SW393 is located within Middle Creek and represents potential contributions from the Middle Creek catchment.	For all OMP sampling events, results have consistently been below the LOR for this location, including for the 2025 sampling events.	This finding is consistent with the conceptual understanding of the area, with limited to no PFAS sources being known in the up-stream areas of Middle Creek.
SW398, SW404, SW416	Kiewa River – Management Area	These sample locations represent the Kiewa River along the length of the waterway which is covered by the Management Area.	For all OMP sampling events, including those from 2025, results have consistently been below the LOR for all locations, with the exception of SW398 during the October 2022 event, which had a concentration of 0.04 µg/L for PFOS and 0.04 µg/L for PFHxS, which exceeds NHMRC 2025 Drinking Water criterion.	Stantec did not provide comment for the concentration above the LOR for the October 2022 sampling event, however recent flooding in the area may have contributed, although this was not identified in any of the other sampling results from the Kiewa River during this time.

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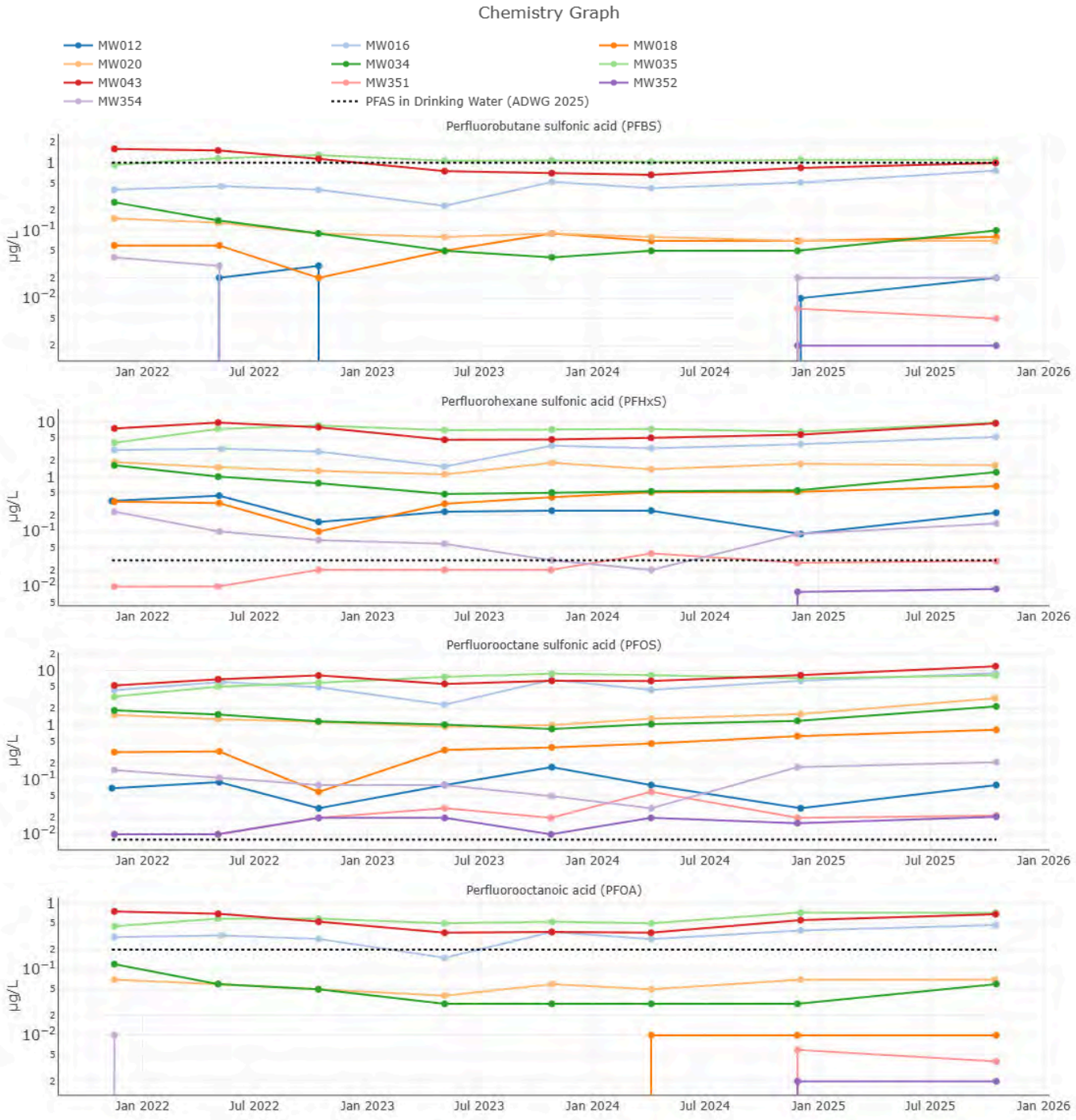
Shepparton and Coonambidgal Fluvium - Shallow Aquifer - On-base



The report was generated based on the following filter:

Chem Names In "Perfluorobutane sulfonic acid ...",

Sample Types In "Normal",

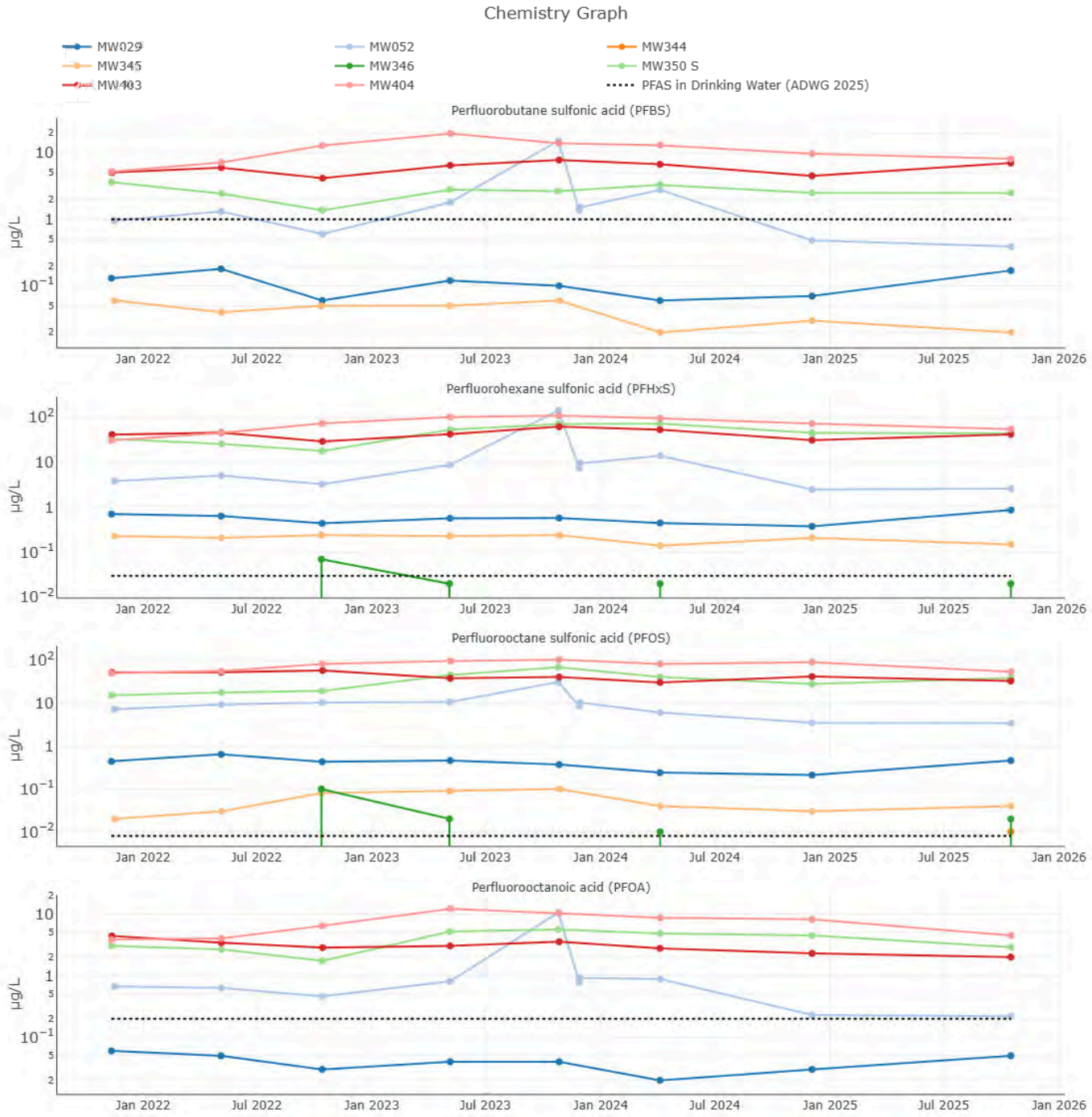
Location Types In "MW : Monitoring Well",

Locations In "MW012,MW016,MW018,MW020,MW034,...",

Non-detects are indicated by a hollow marker

Publication Date: 21 Jan 2026

Shepparton and Coonambidgal Fluvium - Shallow Aquifer - On-base



The report was generated based on the following filter:

Publication Date: 21 Jan 2026

Locations In "MW029,MW052,MW344,MW345,MW346,...",

Location Types In "MW : Monitoring Well",

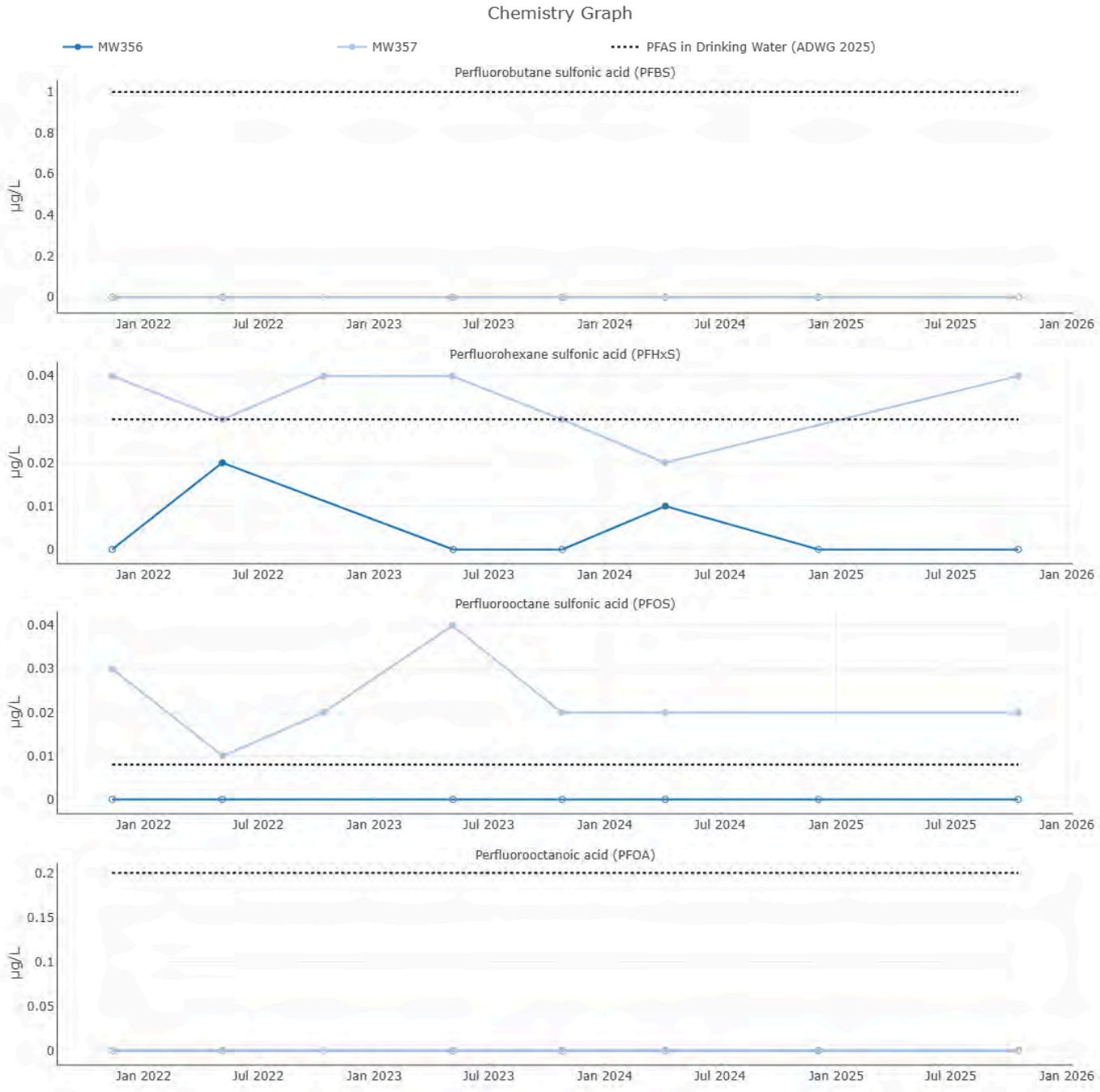
Sample Types In "Normal",

Chem Names In "Perfluorobutane sulfonic acid ...",

Wells In "-,S",

Non-detects are indicated by a hollow marker

Shepparton and Coonambidgal Fluvium - Shallow Aquifer - Off-base



The report was generated based on the following filter:

Wells In "-,S",

Chem Names In "Perfluorobutane sulfonic acid ...",

Sample Types In "Normal",

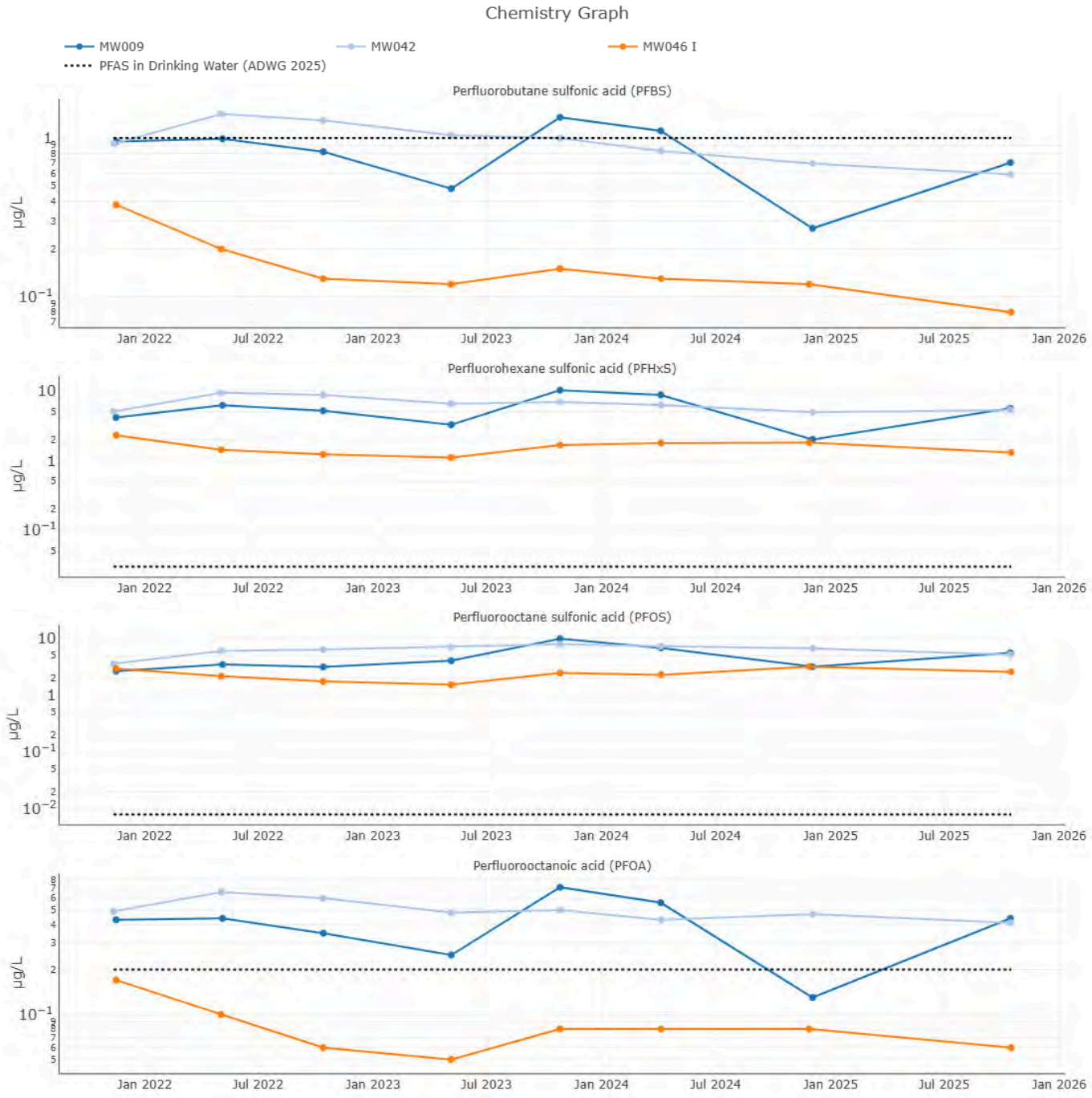
Location Types In "MW : Monitoring Well",

Locations In "MW356,MW357",

Non-detects are indicated by a hollow marker

Publication Date: 22 Jan 2026

Shepparton and Coonambidgal Fluvium - Intermediate Aquifer - On-base



The report was generated based on the following filter:

Publication Date: 21 Jan 2026

Locations In "MW009,MW042,MW046",

Location Types In "MW : Monitoring Well,OTH : Other",

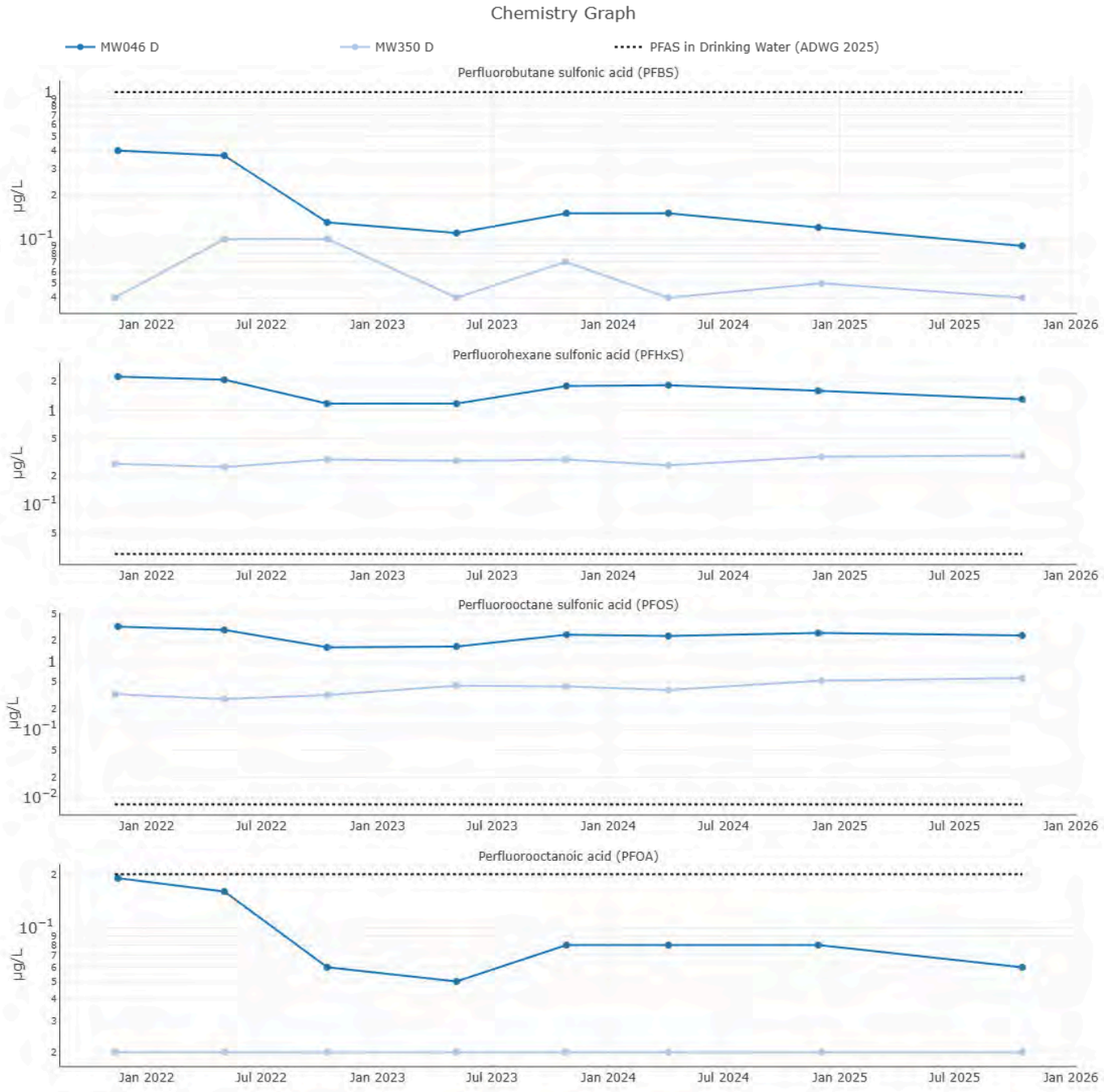
Sample Types In "Normal",

Chem Names In "Perfluorobutane sulfonic acid ...",

Wells In "-,I",

Non-detects are indicated by a hollow marker

Shepparton and Coonambidgal Fluvium - Deep Aquifer - On-base



The report was generated based on the following filter:

Publication Date: 21 Jan 2026

Location Types In "MW : Monitoring Well",

Sample Types In "Normal",

Chem Names In "Perfluorobutane sulfonic acid ...",

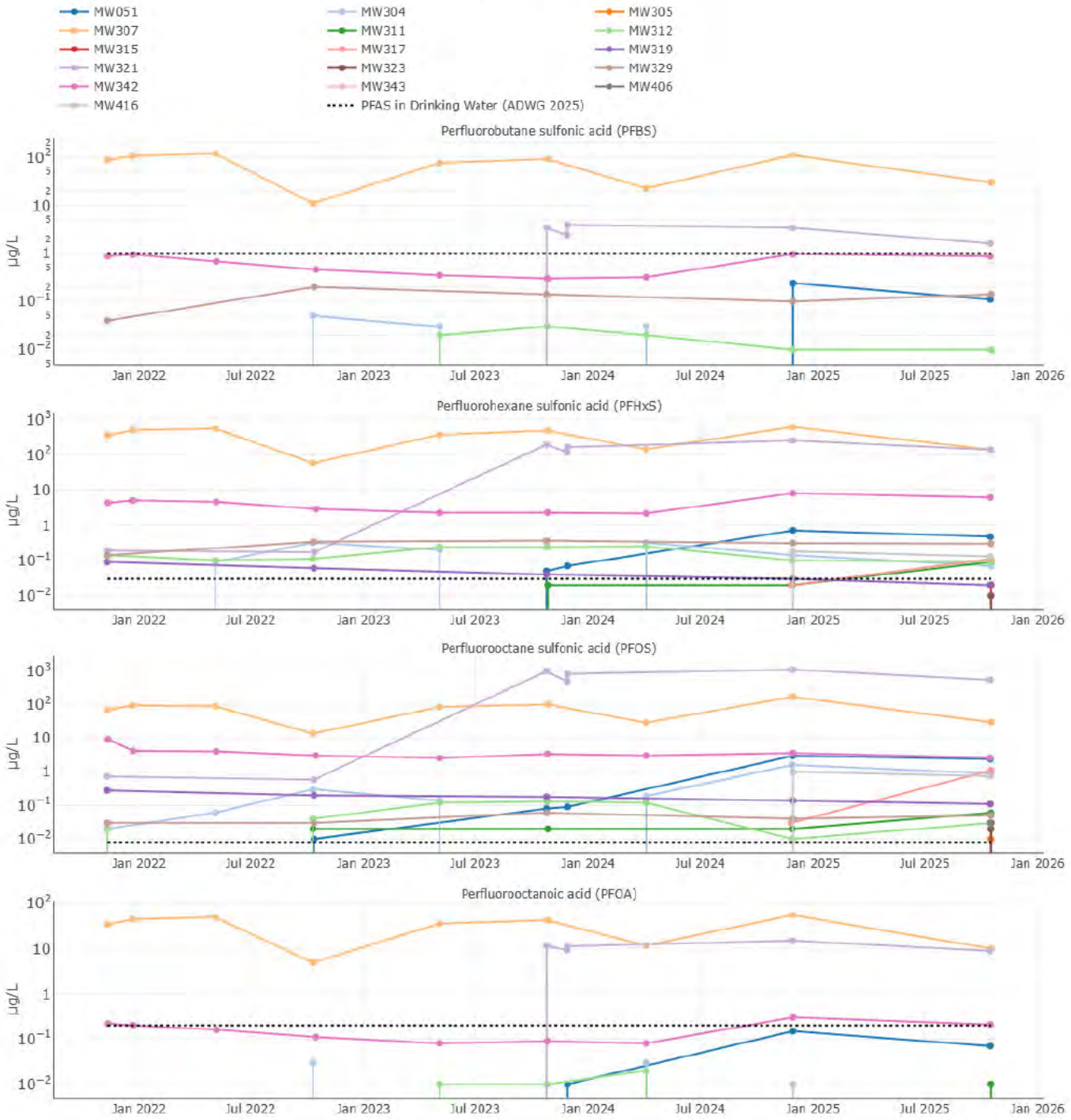
Locations In "MW046,MW350",

Wells In "D",

Non-detects are indicated by a hollow marker

Shepparton Fluvium - Shallow Aquifer

Chemistry Graph



The report was generated based on the following filter:

Chem Names In "Perfluorobutane sulfonic acid ...",

Sample Types In "Normal",

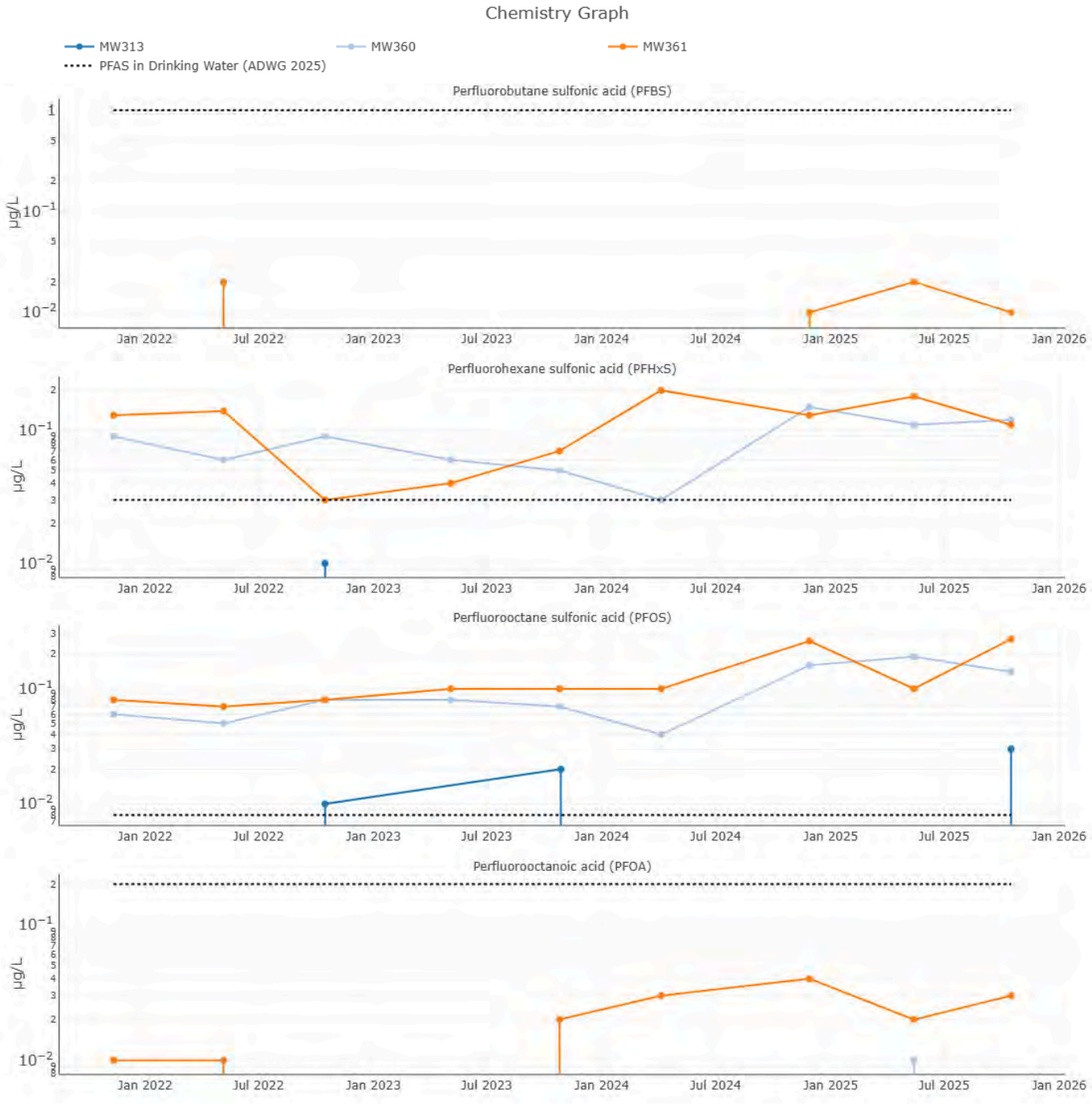
Location Types In "MW : Monitoring Well,OTH : Other",

Locations In "MW051,MW304,MW305,MW307,MW311,...",

Non-detects are indicated by a hollow marker

Publication Date: 21 Jan 2026

Shepparton Colluvium - Shallow Aquifer - Off-base



The report was generated based on the following filter:

Chem Names In "Perfluorobutane sulfonic acid ...",

Sample Types In "Normal",

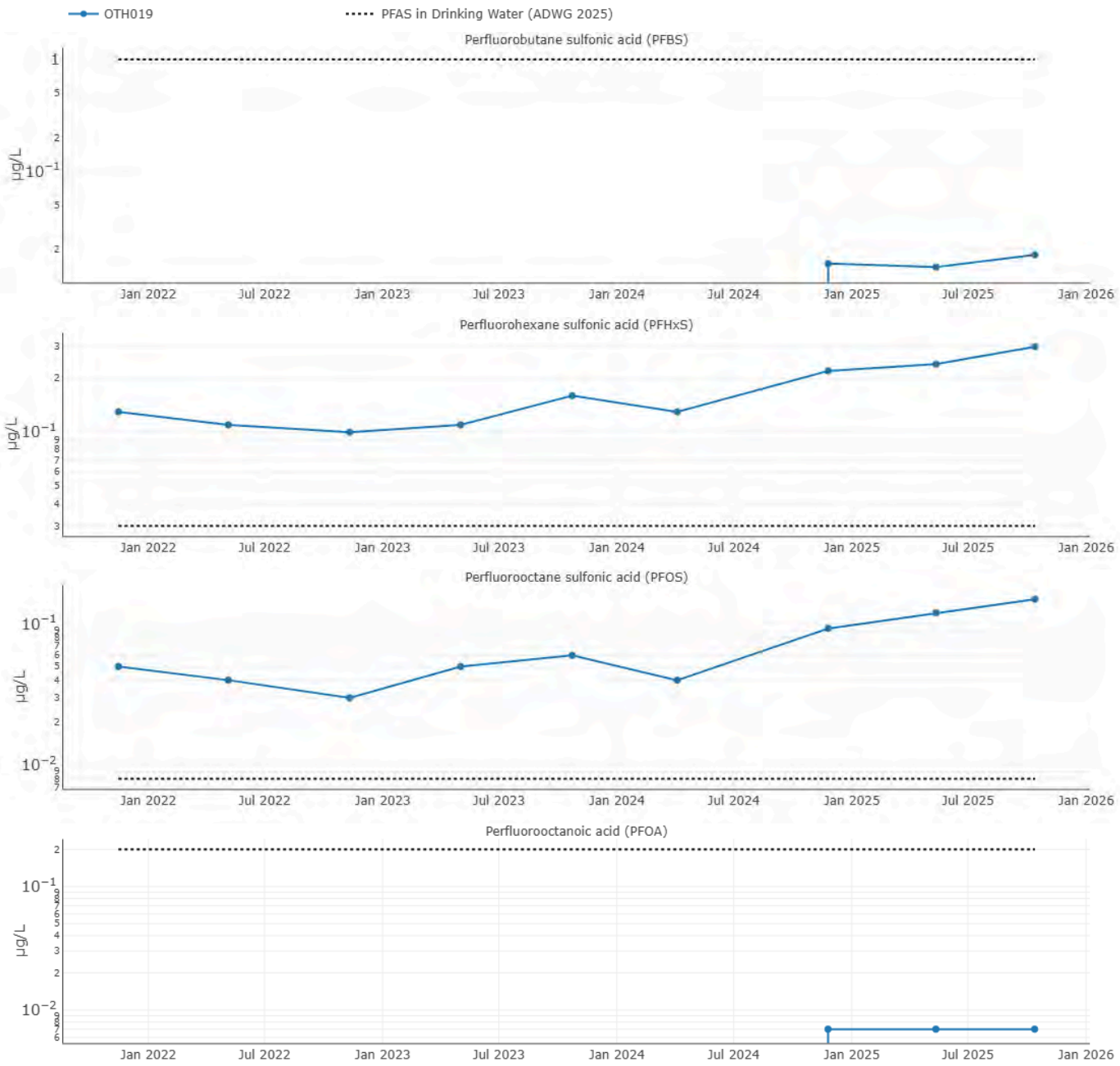
Location Types In "MW : Monitoring Well",

Locations In "MW313,MW360,MW361",

Non-detects are indicated by a hollow marker

Publication Date: 22 Jan 2026

Chemistry Graph



The report was generated based on the following filter:

Chem Names In "Perfluorobutane sulfonic acid ...",

Sample Types In "Normal",

Location Types In "MW : Monitoring Well,OTH : Other",

Locations In "OTH019",

Non-detects are indicated by a hollow marker

Publication Date: 21 Jan 2026

Table J3 - Mann-Kendall Trend Analysis Results

			PFAS - Perfluoroalkyl Sulfonic Acids			PFAS - Perfluoroalkyl Carboxylic Acids	
			Perfluorobutane sulfonic acid (PFBS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	
Location Code	Aquifer	Location Description	µg/L	µg/L	µg/L	µg/L	Number of samples
MW009	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	On-base	NT	NT	NT	NT	8
MW012	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW016	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	TUp	NT	NT	8
MW018	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	TUp	TUp	TUp	8
MW020	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	TDn	NT	NT	NT	8
MW029	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW034	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW035	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	TUp	NT	8
MW042	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	On-base	TDn	NT	NT	TDn	8
MW043	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW046_D	Shepparton and Coonambidgal Fluvium - Deep Aquifer	On-base	TDn	NT	NT	NT	8
MW046_I	Shepparton and Coonambidgal Fluvium - Intermediate Aquifer	On-base	TDn	NT	NT	NT	8
MW051	Shepparton Colluvium - Shallow Aquifer	On-base	NT	TUp	TUp	TUp	6
MW052	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	10
MW056	Shepparton Colluvium - Perched Aquifer	On-base	NT	NT	NT	NT	5
MW302	Shepparton Colluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				1
MW303	Shepparton Colluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				1
MW304	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW305	Shepparton Colluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				1
MW307	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	9
MW311	Shepparton Colluvium - Shallow Aquifer	On-base	NT	TUp	TUp	NT	5
MW312	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW313	Shepparton Colluvium - Shallow Aquifer	Off-base	NT	NT	NT	NT	5
MW315	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	3
MW317	Shepparton Colluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				2
MW319	Shepparton Colluvium - Shallow Aquifer	On-base	NT	TDn	TDn	NT	5
MW321	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	7
MW323	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	5
MW328	Shepparton Colluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				2
MW329	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	5
MW342	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	TDn	NT	9
MW343	Shepparton Colluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				1

Table J4 - Mann-Kendall Trend Analysis Results

			PFAS - Perfluoroalkyl Sulfonic Acids			PFAS - Perfluoroalkyl Carboxylic Acids	
			Perfluorobutane sulfonic acid (PFBS)	Perfluorohexane sulfonic acid (PFHxS)	Perfluorooctane sulfonic acid (PFOS)	Perfluorooctanoic acid (PFOA)	
Location Code	Aquifer	Location Description	µg/L	µg/L	µg/L	µg/L	Number of samples
MW344	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				1
MW345	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW346	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW350_S	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW350_D	Shepparton and Coonambidgal Fluvium - Deep Aquifer	On-base	NT	TUp	TUp	NT	8
MW351	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	TUp	TUp	NT	8
MW352	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	TUp	TUp	NT	TUp	8
MW353	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	TUp	NT	NT	NT	7
MW354	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW356	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	NT	NT	NT	NT	8
MW357	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	NT	NT	NT	NT	9
MW360	Shepparton Colluvium - Shallow Aquifer	Off-base	NT	NT	NT	NT	9
MW361	Shepparton Colluvium - Shallow Aquifer	Off-base	NT	NT	TUp	TUp	9
MW403	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	TDn	8
MW404	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	8
MW406	Shepparton Colluvium - Shallow Aquifer	On-base	Insufficent data for trend analysis				1
MW411	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
MW412	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
MW413	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
MW414	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
MW415	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
MW416	Shepparton Colluvium - Shallow Aquifer	On-base	NT	NT	NT	NT	4
MW447	Shepparton and Coonambidgal Fluvium - Shallow Aquifer	Off-base	Insufficent data for trend analysis				2
OTH019	Shepparton and Coonambidgal Fluvium	Off-base	TUp	TUp	TUp	TUp	9

Notes:

Tup = Trending Up

TDn = Trending Down

NT = No Trend

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