ANNUAL ENVIRONMENTAL REPORT –L8970/2016/3

BRAJKOVICH LANDFILL NORTH

LOT 5 (91) WALYUNGA ROAD, BULLSBROOK

PREPARED FOR:
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CLIENT:	Brajkovich Landfill and Recycling Pty Ltd
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TABLE OF CONTENTS

1 BACKGROUND

1.1 INTRODUCTION

Site Environmental & Remediation Services (SERS) has been engaged by Brajkovich Landfill & Recycling Pty Ltd (BLR, hereafter referred to as 'the Client') to prepare the 2025/2026 Annual Audit Compliance Report (AACR) and compile the 2025/2026 Annual Environmental Report (AER) for Brajkovich Landfill North (BLN) situated at Lot 5 (91) Walyunga Road, Bullsbrook (hereafter referred to as 'the Site'). This is an annual requirement under the Department of Water and Environmental Regulation (DWER) Licence reference L8970/2016/3. The operation of the Site and the day-to-day management of all processes which occur at BLN are contracted to Brajkovich Demolition and Salvage (WA) Pty Ltd (BDS).

Licence L8970/2016/3 (hereafter referred to as 'the Licence') was issued on 10th June 2024 and subject to several conditions, among which Condition 36 and Condition 37 require the Licence holder to submit, respectively, an AACR and AER to the DWER Chief Executive Officer (CEO). This report has been prepared to be following the relevant conditions for the 2025-2026 reporting period.

1.2 SITE DETAILS

A summary of the site identification information is presented within **Table 1-1**.

TABLE 1-1 SUMMARY OF SITE INFORMATION

Local Government Authority	City of Swan
Metropolitan Region Scheme Zoning	Rural
Local Government Authority Zoning	Landscape
Certificate of Title	Part of Lot 5 on Deposited Plan 7892 Volume 1927 Folio 635
Site Area	162.5 ha
Licence Area	10.16 ha
Licence Number	L8970/2016/3
Licence Details	The site is licenced under the following categories: Category 13: Crushing of building material Category 62: Solid Waste Depot Category 63: Class I Inert Landfill Site
Reporting Periods	1st April 2025-31st March 2026

Previous Site Uses	The site has a long history associated with the extraction of basic raw materials. The extraction of sand and clay continue at present. Significant parts of the licence area have been exhausted to the limits of the extractive approvals.

1.3 LOCALITY

The Site is located approximately 30km north-west of the Perth Central Business District (CBD). The Site has been used for the extraction of basic raw materials since 1965 with periods of inactivity. Great Northern Highway is situated to the west of the site, whilst Walyunga National Park is adjacent to the eastern boundary.

The surrounding area is characterised by rural residential properties, along with various extractive industry sites.

1.4 ONSITE ACTIVITIES

Clay and sand resources are extracted from the Site. Sand extraction currently occurs to the south-east of the licenced areas and clay extraction takes place to the east of the licenced area. Both extraction areas are separate from the licenced area and will continue under the existing development approvals and extractive industry licences.

BDS is a WorkSafe WA Licenced Class 1 demolition contractor and is commissioned to demolish buildings and structures across the Perth Metropolitan area. Demolition works result in a result in a large amount of concrete, brick, sand and other recyclable material being generate, as well as material which requires removal and final disposal such as asbestos.

BDS has a policy to recycle as much material as possible from demolition sites. Where recycling is not possible, the final disposal of the material is sought at an appropriately licenced DWER facility. The subject site form part of BDS waste management process, where material can be sorted for reuse, processed into a recycled product, or directed to landfill in accordance with licence conditions.

Material is accepted from a BDS demolition site as well as various third-party contractors. Regardless of the waste generator, the material is subject to rigorous pre-acceptance checks.

1.5 SUBMISSION OF ANNUAL ENVIRONMENTAL REPORT

The information contained within this AER will provide full and complete details required under Conditions 36 and 37of the DWER Licence. Condition 36 states the following:

> *"The licence holder must submit to the CEO by no later than 28 calendar days after the end of each annual period, and Annual Audit Compliance Report in the approved form."*

Condition 37 states the following:

> *"The licence holder must prepare an environmental report and submit it for that period to the CEO by no later than 28 days after the end of that annual period in accordance with*:
>
> - *An assessment of the information contained within the report against previous monitoring results and licence limits;*

- *A summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken;*

- *Results of product testing by Condition 27;*

Monitoring of waste inputs and outputs by Condition 30 and 31, including a summary of:

(a) Waste types and quantities;

(b) Wastes that were accepted and disposed of at the site; and

(c) Removed and rejected loads

- *A summary and assessment of ambient groundwater quality monitoring results as specified by Condition 32 including:*

(a) A tabulated data summary of monitoring results.

(b) An interpretation of monitoring data results including comparison to historical trends.

2 SUMMARY OF THE FAILURE OR MALFUNCTION OF POLLUTION CONTROL EQUIPMENT AND ENVIRONMENTAL INCIDENTS

No pollution control equipment at the Site experienced any failure or malfunction during the reporting period. Furthermore, no environmental incidents occurred at the Site throughout the reporting period.

3 RECYCLED OUTPUT SAMPLING AND TESTING

The recycled product which is generated at the site is sampled and tested in accordance with Licence Condition 26, 27 and Attachment 3, in addition to current version of the DWER Asbestos Guideline Managing asbestos at construction and demolition waste recycling facilities, as updated April 2021.

During the reporting year, Brajkovich Landfill and Recycling collected approximately 1200 samples of various sizes at the site.

There were 2 occasions, where concentrations of asbestos were identified within the submitted samples. However, none of these occasions yielded result above the assessment criteria as listed within the Department of Health (DoH) Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Site in Western Australia (2021).

Table 3-1 overleaf provides a summary of the asbestos identified.

TABLE 3-1 SUMMARY OF POSITIVE ASBESTOS SAMPLES

SERS REFERENCE	DATE	NO. OF ASBESTOS DETECTED SAMPLE	SAMPLE ID	MATERIAL DESCRIPTION	ASBESTOS DETECTED	ASSESSMENT CRITERIA
175725_A_Soil.0007	05/01/2026	1	BDS07	Soil	CHR detected in Loose Fibre Bundles, ORG detected	Not exceeded
175764_B_Aggregate.0016	16/01/2026	1	BDS41	Aggregate	CHR detected in Loose Fibre Bundle, Org detected	Not exceeded

ABBREVIATION / DEFINITION	
NAD	No Asbestos Detected
NADRL	No Asbestos Detected at Reporting Limit of 0.1g/kg
CHR	Chrysolite Asbestos Detected
AMO	Amosite Asbestos Detected
CRO	Crocidolite Asbestos Detected
UMF	Unknown Mineral Fibre Detected
SMF	Synthetic Mineral Fibre Detected
ORG	Organic Fibre Detected
AF	Asbestos Fines
FA	Friable Asbestos

4 MONITORING OF WASTE INPUTS AND OUTPUTS

4.1 SUMMARY OF QUANTITIES ACCEPTED AND DISPOSED

The quantity of waste accepted to the licenced facility is monitored on a load-by-load basis to manage commercial aspects of the Site and provide accurate data for the levy return. Detailed information in this regard is submitted to the DWER on a quarterly basis and can be provided upon request.

Table 4-1 below is a summary of the volume of material accepted to the site (recorded in m^3) during the reporting period. Volume has been estimated using the WA Waste Authority (2012) Guideline No. 6 Converting volumes to tonnes.

TABLE 4-1 SUMMARY OF THE VOLUME OF MATERIAL ACCEPTED TO THE SITE

WASTE ACCEPTANCE QUANTITIES			
WASTE TYPE	**QUANTITY LIMIT TONNES/YEAR**	**ACTUAL VOLUME RECEIVED M^3/YEAR**	**ESTIMATED QUANTITIES RECEIVED TONNES/YEAR**
Inert Waste Type 1	400,000	259,689	337,595.7
Inert Waste Type 2		272	353.6
Special Waste Type 1	120,000	31,344	40,734.2
Green Waste	10,000	43,331	56,330.3

**Total tonnage of inert waste type 1 and type 2 does not include tonnage of tyres.*

4.2 SUMMARY OF NON-CONFORMING WASTE QUANTITIES REJECTED

During the reporting year, no loads have been rejected at the facility. However, in the situation of non-conforming loads, a sorting regime is implemented and the cost of which is back charged to the waste supplier. Non-conforming materials removed from the Site during the reporting year are summarised **Table 4-2** overleaf.

TABLE 4-2 REJECTED NON-CONFORMING WASTE QUANTITIES

COMPANY (WASTE)	QUANTITY REMOVED (T)
Bricks	254.8
Fernview Environmental (Mulch)	5,304
Adasonia (Mulch)	6,318
Urban Resources (Concrete)	2,628
WA Recycling (Concrete)	155
Auscon (Scrap Metal)	1
Jade Metals/RPS/M8 (Scrap Metal)	3,900
Tyres	27
Sand	7,787
Light Waste	54
Timber	44.2

4.3 WASTE ACCEPTANCE

The Waste acceptance criteria for the site are stated in Section 2, Table 2 of the Licence. The volume of material which has been received and/or processed at the Site is stated in Section 4.1 above.

The quantity of waste received in the annual period has been calculated as being within the quantities permitted under the Licence.

5 AMBIENT GROUNDWATER QUALITY

5.1 2025-2026 MONITORING PROGRAM

The groundwater monitoring program indicates that water quality has not been impacted by Site activities during the reporting period. The results of elevated analytes have been summarized into a series of statements below in comparison with the relevant guidelines listed:

1. Australian and New Zealand Environment and Conservation Council (ANZECC) 2000 Irrigation Long Term Trigger Values;

2. ANZECC 2000 Irrigation Short Term Trigger Values; and

3. Department of Health (DOH) 2014 Non-Potable Groundwater Use (NPUG).

During this reporting period, samples were collected on in April and October 2025. Please refer to **Appendix A** for Site photographs. **Tables 5-1** and **Table 5-2** at the rear of the report summarize the results from the sampling, whilst the Laboratory Results and Chain of Custody's (COC) have been attached as **Appendix B** and **Appendix C**, respectively

5.2 EXPLANATION OF ANALYTICAL RESULTS

Bore AB

Bore AB recorded exceedances of the 2014 Department of Health guideline for chloride (250 mg/L) in April and October 2025, with concentrations of 410 mg/L and 420 mg/L, respectively. Phosphorus levels also exceeded the ANZECC irrigation long-term trigger value (0.05 mg/L), with measured concentrations of 0.19 mg/L and 0.07 mg/L for the respective sampling events. All other analytes were reported below the applicable guideline values.

Bore CB

Bore CB was previously reported as having insufficient water for sampling; however, during the October 2025 monitoring event, the bore was replenished with groundwater and was suitable for sampling. During this event, chloride concentrations exceeded the 2014 Department of Health guideline value (250 mg/L), with a measured concentration of 440 mg/L. This represents a substantial decrease compared to the previously reported concentration of 1100 mg/L in September 2024. Nitrogen concentrations from the October 2025 sampling event exceeded the ANZECC (2000) long-term irrigation guideline, with a recorded level of 34 mg/L; however, this is also lower than the concentration reported in September 2024.

The pH was measured at 5.6, which falls outside the ANZECC (2000) recommended long-term irrigation range of 6.0–8.5. This value is consistent with the results obtained during the previous three sampling events at this location. All other analytes were reported below the applicable guideline values.

Bore GB

During the most recent groundwater monitoring event conducted in October 2025, Bore GB recorded a single exceedance of the ANZECC (2000) long-term irrigation guideline for phosphorus. Measured concentrations

were 0.092 mg/L in October 2025 and 0.10 mg/L in April 2025. All other analytes were reported below the applicable guideline values.

Bore PB

Samples have not been collected from Bore PB since March 2023 due to the absence of groundwater. The most recent sampling event during which water was available occurred in September 2022, during which three exceedances were recorded. Iron concentrations exceeded both the ANZECC (2000) long-term irrigation guideline (0.2 mg/L) and the 2014 Department of Health guideline (0.3 mg/L), with a measured value of 0.34 mg/L. Chloride concentrations also exceeded the 2014 Department of Health guideline (250 mg/L), with a result of 570 mg/L. In addition, phosphorus exceeded the ANZECC (2000) long-term irrigation guideline (0.05 mg/L), with a recorded concentration of 0.12 mg/L.

All other analytes were reported below the applicable guideline values during the March 2022 monitoring event.

5.3 EXPLANATION OF CURRENT EXCEEDANCE

A desktop investigation has been undertaken to determine the cause of the observed exceedances. Consistent with previous annual environmental reports, chloride concentrations exceeded the relevant guideline values in most samples collected during the current reporting period. A review of the Department of Water and Environmental Regulation (DWER) Perth Groundwater Atlas (accessed April 2026) indicates that the Site is located within an area where no groundwater data is currently available. However, land approximately 500 m to the west has been classified as unsuitable for a “garden bore” and not applicable as a “public drinking water source area,” with recorded natural salinity levels ranging between 500–1000 mg/L. Salinity refers to the concentration of total dissolved salts in water and may account for the elevated chloride concentrations observed in the groundwater bores.

Chloride is one of the most common naturally occurring anions in groundwater and may originate from a range of natural and anthropogenic sources, including mineral weathering, seawater intrusion, agricultural and irrigation return flows, urban runoff, sewage discharge, and industrial effluents. In general, deeper groundwater systems, which have been in prolonged contact with geological materials, tend to exhibit higher salinity levels compared to shallow groundwater or surface water. Chloride is highly mobile in groundwater systems and is not readily removed through biological processes or conventional water treatment methods.

Elevated concentrations of nitrogen and phosphorus were also recorded in the monitoring bores. These nutrients are commonly present in natural waters; however, increased levels are often associated with agricultural activities. As identified in the City of Swan Local Planning Scheme No. 17, the surrounding land use comprises General Rural properties utilised for farming and agricultural purposes. The application of fertilizers and the presence of animal manure are likely contributing sources, with nutrients potentially leaching through the soil profile into the underlying groundwater.

Iron concentrations were slightly elevated in Bore AB in April 2025; however, no exceedances were recorded during the current reporting period. Elevated iron concentrations are characteristic of Perth groundwater systems and are therefore considered reflective of natural background conditions. All iron concentrations measured during the current monitoring period were within the applicable guideline values.

Bore PB has historically remained dry, with no samples collected in April and October 2025, nor during the previous monitoring period (2024–2025).

Field pH measurements were obtained for all samples and subsequently verified through laboratory analysis. A laboratory pH of 5.6 was recorded for the sample collected from Bore CB in October 2025. According to ANZECC & ARMCANZ (2000), pH values within the range of 4 to 6 should be interpreted with caution; however, such levels are unlikely to adversely affect soil or animal health, as acceptable pH ranges typically fall between 4 and 9. The slightly acidic pH may be attributed to a deficiency of alkaline buffering compounds within the groundwater system or the presence of organic matter. Laboratory measurements are considered more reliable than field measurements due to improved calibration and controlled analytical conditions.

The forthcoming sampling period (2026–2027) will enable assessment of temporal trends through comparison with historical analytical results, thereby determining whether the observed concentrations represent persistent conditions or temporal variability.

6 ASSESSMENT AND COMPARISON AGAINST PREVIOUS REPORT

All groundwater monitoring data has been compiled for long term comparison, to establish any trends for the Site (Table 6.1). Sample events have been compared against the ANZECC 2000 Irrigation Long Term Trigger Value, ANZECC 2000 Short Term Irrigation Trigger Value, and the DOH 2014 NPUG Guideline Levels included in this comparison are the following sampling events:

- 2nd October 2025
- 9th April 2025
- 12th September 2025
- 18th March 2024
- 14th September 2023
- 19th April 2023
- 28th September 2022
- 2nd March 2022
- 3rd September 2021;
- 29th March 2021;
- 16th September 2020;
- 26th March 2020;
- 2nd September 2019;
- 14th March 2019;
- 21st September 2018;
- 29th March 2018;
- 16th March 2017;
- 5th September 2016;
- 23rd March 2016;
- 25th September 2015; and
- 24th September 2014

A historical comparison of the sampling events identified several analytes that did not comply with the selected guidelines. These include chloride at bores AB and CB; nitrogen at bores CB and GB; phosphorus at bores AB and GB; and pH at bore CB. The remaining analytes exhibit minimal variation between sampling periods and remain within the applicable guideline limits.

Chloride concentrations have consistently exceeded the DOH (2014) guideline at bores AB and GB. However, a decrease has been observed at bore GB compared to the previous reporting year. Chloride concentrations at bore GB have fluctuated around the DOH (2014) guideline over time. The initial sample collected in March 2016 recorded a high concentration of 720 mg/L, which declined significantly to 400 mg/L by September 2016. Since then, concentrations have continued to decrease, reaching 190 mg/L by September 2020, followed by fluctuations between 220 and 280 mg/L.

The pH levels at bore CB have consistently remained below the ANZECC and ARMCANZ (2000) guideline range of 6.0–8.5 in laboratory analyses. Reported values range between 5.2 and 5.9, with no discernible trend. As noted above, laboratory measurements are considered more reliable than field measurements.

7 COMPLIANCE

The Annual Audit Compliance Report has been completed and included as **Appendix D**.

8 SUMMARY OF COMPLAINTS

Brajkovich Landfill and Recycling and Site Environmental and Remediation Services have not received any complaints in relation to the works carried out under the licence during the reporting period.

A complaints system is currently in place, which forms part of the Brajkovich Companies' Environmental Management System. Any complaints received are dealt with in a professional manner, and within an appropriate timeframe.

9 CALIBRATION OF EQUIPMENT

All equipment used for monitoring at Brajkovich Landfill North has been calibrated in accordance with the manufacturers' conditions and relevant Australian Standards.

10 CONCLUSION

Brajkovich Landfill North is licensed as a prescribed premise under the Environmental Protection Act 1986 at Lot 5 (91) Walyunga Road, Bullsbrook WA 6084. The Site is licensed under L8970/2016/3, which permits the operation of category numbers 13, 62 and 63.

This report has been completed to comply with Condition 36, which seeks the submission of the AACR, and Condition 37, which seeks the submission of the AER. The Site has been managed in compliance with all licence conditions throughout the annual period. The AACR has been attached as **Appendix D**.

During the 2025-2026 period, Brajkovich Landfill and Recycling collected 1200 samples of various sizes at the site. There were 2 occasions where asbestos was identified within the submitted samples, however, none of the samples were above the DoH Guidelines for the Assessment, Remediation and Management of Asbestos-Contaminated Sites in Western Australia (2021).

Monitoring of the Site's input and output has been conducted throughout the reporting year in accordance with the licence conditions. Overall, 435,013 tonnes were accepted onto the Site (input) and 26,473 tonnes were removed (output).

Groundwater has been monitored at three of the four groundwater monitoring bores installed at the Site. Two monitoring events have taken place during the reporting period, except for bore CB which did not show enough water to sample in the April 2025 event. The analytical results indicate that Site activities are not having a significant impact on the groundwater.

11 REFERENCE LIST

Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand (ANZECC & ARMCANZ) (2000). Australia and New Zealand Guidelines for Fresh and Marine Water Quality: Volume 1. Australia.

Department of Environment Regulation (DER) (2014). Assessment and Management of Contaminated Sites: Contaminated Sites Guidelines. Government of Western Australia, Perth WA.

Department of Water and Environmental Regulation (DWER) (2020). Perth Groundwater Map. Government of Western Australia, Perth WA. Accessed 07/04/2021

Waste Authority (2012). 6 – Converting Volumes to Tonnes. Government of Western Australia, Perth.

FIGURE 1 – SITE LOCATION

Title: Figure 1. General Site Location and Site Boundary		**PROJECT CODE** 004-04	
CLIENT Brajkovich Landfill & Recyling Pty Ltd	**PROJECT** 004-04 Lot 5 (91) Walyunga Road, Bullsbrook WA 6084		
DESIGN/DRAW	**APPROVED BY**	**VERSION** 00	**DATE** February 2024
SERS Site Environmental & Remediation Services	**SCALE** 0 250 500 m	**SOURCE** Google Satellite and Terrain Map	

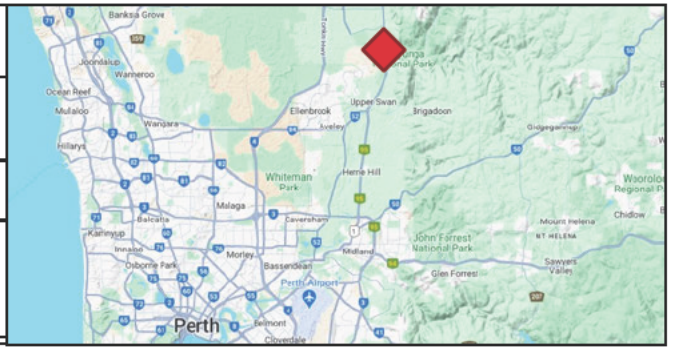

FIGURE 2 – SITE LAYOUT

TITLE	Figure 2. Site Layout		
PROJECT	Lot 5 (91) Walyunga Road, Bullsbrook WA 6084	**PROJECT CODE**	004-04
CLIENT	Brajkovich Landfill & Recycling Pty Ltd	Project:	004-04 Lot 5 (91) Walyunga Road, Bullsbrook WA 6084
DESIGN/DRAW	[redacted]	**APPROVED BY**	[redacted]
VERSION	00	**DATE**	28/03/2024
SERS Site Environmental & Remediation Services	**SCALE** 0 100 200 m	**SOURCE**	Coordinate System GDA2020. Basemap 1: Google Maps. Google Terrain

FIGURE 3 – GROUNDWATER BORE LOCATIONS

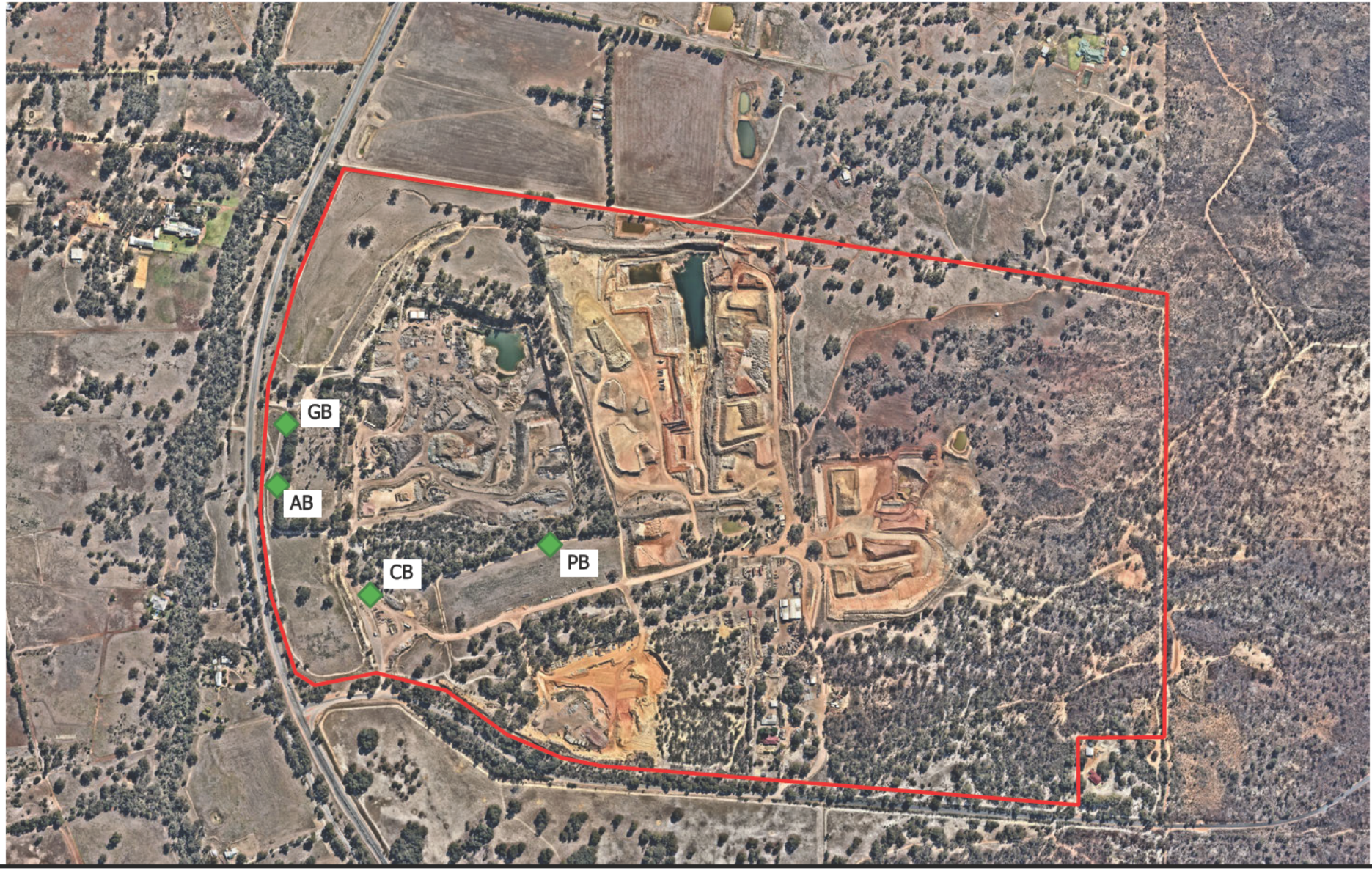

FIGURE 3 Groundwater Bore Locations

SERS
Site Environmental & Remediation Services
Tel: +61 (08) 9220 2000
http://www.sers.net.au

CLIENT: Brajkovich Landfill and recycling Pty Ltd.
PROJECT: 91 Walyunga Road

PROJECT No:

BASEMAP: Google Satelitte

Legend
Site
Groundwater Bores

SCALE: NTS | ISSUE: FINAL | DESIGN/DRAWN | DATE: July 2021

APPENDIX A – TABULATED LABORATORY RESULTS

		Inorganics									Metals										
		Ammonia (as N)	Chloride	Nitrate (as N)	Nitrogen (Total)	Phosphorus (Total)	Phosphorus (Filtered)	TDS	pH	Electrical Conductivity	Cadmium (Filtered)	Chromium (Total)	Chromium (III + VI)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	Potassium (Total)
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	EQL																				
	ANZECC 2000 Irrigation Long Term				5	0.05			6.0 - 8.5		0.01		0.1	0.2	0.2	2	0.2	0.002	0.2	2	
	ANZECC 2000 Irrigation Short Term				25-125	0.8-12					0.05		1	5	10	5	10	0.002	2	5	
	DOH 2014	0.41*	250	113**							0.02			20	0.3	0.1	5	0.01	0.2	3	
	Sampled Date																				
Bore AB	Oct-25	0.0096	420	0.49	0.88	0.077	-	1100	7.2	1900	<0.0001	0.001	<0.001	0.0014	0.036	<0.001	0.015	0.00037	0.0024	0.048	12
	Apr-25	<0.0050	410	0.41	1.1	0.19	-	1300	7.1	2300	<0.0001	0.002	-	<0.001	0.15	<0.001	0.019	0.00013	0.0024	0.18	13
	Sep-24	<0.0050	710	1	1.4	0.27	-	1600	6.3	2700	<0.0001	0.001	-	<0.001	0.069	<0.001	0.0081	0.00021	0.0036	0.0056	11
	Mar-24	<0.0050	720	1.3	1.5	0.11	-	1400	6.4	2600	<0.0001	0.001	-	<0.001	0.015	<0.001	0.0036	<0.00005	0.0032	0.0056	110
	Sep-23	<0.0050	630	<0.0050	0.2	0.26	-	1300	6.7	2400	<0.0001	0.001	-	<0.001	0.037	<0.001	0.0098	<0.00005	0.0019	0.0065	12
	Mar-23	0.016	700	0.95	0.9	0.078	-	1500	6.9	2500	<0.0001	0.001	-	<0.001	0.044	<0.001	0.026	<0.00005	0.022	0.044	11
	Sep-22	<0.005	1200	79	95	<0.05	-	3100	5.9	4700	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.011	<0.00005	0.009	0.011	6.3
	Mar-22	0.028	630	0.34	1.0	0.14	-	1300	6.7	2400	<0.0001	<0.001	-	<0.001	0.01	<0.001	0.043	<0.00005	0.002	0.47	10
	Sep-21	<0.005	620	0.036	0.2	<0.05	-	1300	6.5	1900	<0.0001	<0.001	-	0.002	<0.01	<0.001	0.034	<0.00005	0.006	0.061	0.09
	Mar-21	<0.005	740	1.1	1.3	0.06	<0.05	1600	6.2	2700	<0.0001	<0.001	-	<0.001	<0.01	<0.001	<0.005	<0.00005	0.007	0.003	12
	Sep-20	<0.005	720	1.1	1.3	0.06	-	1700	6.2	2700	<0.0001	-	<0.001	<0.001	0.01	<0.001	<0.005	<0.00005	0.003	0.002	11
	Mar-20	<0.005	700	0.35	0.5	0.09	-	1700	6.2	2600	<0.0001	-	<0.001	0.001	<0.01	<0.001	0.012	<0.00005	0.003	0.003	14
	Sep-19	<0.005	-	0.18	0.5	-	<0.05	1400	6.6	2500	<0.0001	<0.001	-	<0.001	<0.01	<0.001	<0.005	<0.00005	0.002	0.01	11
	Mar-19	0.11	740	0.88	1.3	<0.05	-	1900	-	-	<0.0001	-	<0.001	0.008	0.02	<0.001	0.012	<0.00005	0.004	0.014	13
	Sep-18	0.037	600	-	0.2	-	<0.05	1300	-	-	<0.0001	-	<0.001	0.001	-	<0.001	0.015	<0.00005	0.002	0.006	-
	Mar-18	<0.005	640	-	0.1	-	<0.05	1400	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	0.022	<0.00005	0.003	0.004	-
	Mar-17	<0.005	780	-	1.3	-	<0.05	1800	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	<0.005	<0.00005	0.003	0.003	-
	Sep-16	<0.005	630	-	0.6	-	<0.05	1300	-	-	<0.0001	-	<0.001	<0.0001	-	<0.001	0.062	<0.00005	0.003	0.11	-
	Mar-16	<0.005	760	-	1.2	-	<0.05	1700	-	-	<0.0001	-	<0.001	0.002	-	<0.001	<0.005	<0.00005	0.003	0.004	-
	Sep-15	0.014	580	-	1.7	<0.05	-	1500	-	-	<0.0001	<0.001	-	<0.001	<0.01	<0.001	<0.005	<0.00005	0.002	0.001	-
	Sep-14	<0.005	730	-	1.0	<0.05	-	-	-	-	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.021	<0.00005	0.002	0.002	-
Bore CB	Oct-25	0.016	440	33	34	0.15	-	1400	5.8	2100	<0.0001	0.024	<0.001	<0.001	<0.01	<0.001	0.0083	<0.00005	0.0031	0.077	4.4
	Apr-25	WATER OBSERVED IN THE BORE, BUT WASN'T ENOUGH FOR SAMPLING																			
	Sep-24	<0.0050	1100	73	87	<0.050	-	2800	5.8	4500	<0.0001	<0.001	-	0.0011	<0.01	<0.001	0.005	<0.00005	0.006	0.047	6.3
	Mar-24	<0.0050	820	-	1.5	<0.050	-	1400	5.9	2700	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.009	<0.00005	0.013	0.006	7
	Sep-23	<0.0050	810	1.6	2.0	0.14	-	1500	5.7	2800	<0.0001	<0.001	-	<0.001	0.033	<0.001	0.016	<0.00005	0.011	0.009	8
	Mar-23	<0.0050	830	12	13	0.055	-	1700	7.4	3000	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.014	<0.00005	0.009	0.005	7.2
	Sep-22	<0.005	1300	80	95	<0.05	-	3300	5.9	4800	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.013	<0.00005	0.013	0.015	6.2
	Mar-22	0.013	880	5.8	7	0.09	-	1500	5.7	2900	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.016	<0.00005	0.008	0.140	7.1
	Sep-21	<0.005	880	60	63	0.06	-	2400	5.6	2900	<0.0001	<0.001	-	0.018	<0.01	<0.001	<0.005	<0.00005	0.031	0.012	1.2
	Mar-21	<0.005	820	1.5	1.6	<0.05	<0.05	1700	5.7	2800	0.0001	<0.001	-	<0.001	0.02	<0.001	0.018	<0.00005	0.02	0.006	7.8
	Sep-20	<0.005	850	1.2	1.4	<0.05	-	1900	5.6	2900	0.0001		<0.001	<0.001	0.03	<0.001	0.011	<0.00005	0.014	0.009	7.8
	Mar-20	<0.005	750	2	2.3	<0.05	-	1800	5.8	2600	<0.0001		<0.001	0.002	0.04	<0.001	0.022	<0.00005	0.011	0.006	9.1
	Sep-19	<0.005	-	18	21		<0.05	2100	5.2	3600	<0.0001	0.001	-	<0.001	0.01	<0.001	0.019	<0.00005	0.007	0.007	3.5
	Mar-19	<0.005	730	1.7	2.4	<0.05		1800	-	-	0.0001	-	<0.001	0.007	0.05	<0.001	0.02	<0.00005	0.015	0.061	6.4
	Sep-18	<0.005	560	-	5.2	-	<0.05	1000	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	0.011	<0.00005	0.006	0.007	-
	Mar-18	<0.005	680	-	2.8	-	<0.05	1500	-	-	0.0002	-	<0.001	<0.001	-	<0.001	0.038	<0.00005	0.011	0.017	-
	Mar-17	0.025	680	-	4.9	-	<0.05	1400	-	-	0.0002	-	<0.001	0.002	-	<0.001	0.037	<0.00005	0.011	0.024	-
	Sep-16	<0.005	220	-	17	-	<0.05	480	-	-	<0.0001	-	<0.001	<0.0001	-	<0.001	0.008	<0.00005	0.002	0.009	-
	Mar-16	<0.005	340	-	1.0	-	<0.05	1500	-	-	0.0001	-	<0.001	0.003	-	<0.001	0.013	<0.00005	0.011	0.017	-
	Sep-15	<0.005	640	-	2.2	<0.05	-	1400	-	-	<0.0001	<0.001	-	0.008	0.09	<0.001	0.031	<0.00005	0.008	0.041	-
	Sep-14	<0.005	190	-	1.6	<0.05	-	-	-	-	<0.0001	0.005	-	<0.001	<0.01	<0.001	0.006	<0.00005	0.002	0.002	-

		Inorganics									Metals										
		Ammonia (as N)	Chloride	Nitrate (as N)	Nitrogen (Total)	Phosphorus (Total)	Phosphorus (Filtered)	TDS	pH	Electrical Conductivity	Cadmium (Filtered)	Chromium (Total)	Chromium (III + VI)	Copper (Filtered)	Iron (Filtered)	Lead (Filtered)	Manganese (Filtered)	Mercury (Filtered)	Nickel (Filtered)	Zinc (Filtered)	Potassium (Total)
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH units	µS/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
	EQL																				
	ANZECC 2000 Irrigation Long Term				5	0.05			6.0 - 8.5		0.01		0.1	0.2	0.2	2	0.2	0.002	0.2	2	
	ANZECC 2000 Irrigation Short Term				25-125	0.8-12					0.05		1	5	10	5	10	0.002	2	5	
	DOH 2014	0.41*	250	113**							0.02			20	0.3	0.1	5	0.01	0.2	3	
	Sampled Date																				
Bore GB	Oct-25	0.042	230	2.9	3.5	0.092	-	650	6.7	1100	<0.0001	0.015	<0.001	<0.001	<0.01	<0.001	0.056	<0.00005	<0.001	0.08	3
	Apr-25	<0.0050	250	3.4	5.3	0.1	-	660	6.6	1200	<0.0001	0.024	-	<0.001	<0.01	<0.001	0.067	<0.00005	<0.001	0.100	2.8
	Sep-24	<0.0050	250	5.2	6.1	<0.050	-	660	6.7	1200	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.010	<0.00005	<0.001	0.009	2.8
	Mar-24	<0.0050	270	5.4	6.7	<0.050	-	730	6.9	1200	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.018	<0.00005	<0.001	0.001	2.9
	Sep-23	<0.0050	250	4.2	5.0	<0.050	-	620	6.7	1200	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.003	<0.00005	<0.001	0.002	3.4
	Mar-23	0.005	250	5.7	5.5	<0.050	-	670	6.6	1100	<0.0001	<0.001	-	<0.001	<0.01	<0.001	0.014	<0.00005	<0.001	0.009	3.8
	Sep-22	BORE INACCESSIBLE																			
	Mar-22	0.24	220	6.1	6.9	<0.05	-	570	6.7	1100	<0.0001	<0.001	-	<0.001	<0.01	0.004	0.021	<0.00005	<0.001	0.130	3.3
	Sep-21	<0.005	260	2.3	2.9	0.06	-	610	7	1000	<0.0001	<0.001	-	0.002	<0.01	<0.001	0.010	<0.00005	0.003	0.005	5
	Mar-21	<0.005	280	2.2	2.7	<0.05	<0.05	640	6.5	1200	<0.0001	0.002	-	<0.001	<0.01	<0.001	0.015	<0.00005	0.002	0.002	3.7
	Sep-20	<0.005	190	3.7	4.1	<0.05	-	610	6.7	990	<0.0001	-	<0.001	<0.001	<0.01	<0.001	<0.005	<0.00005	<0.001	0.001	2.7
	Mar-20	<0.005	250	3.2	3.5	<0.05	-	890	6.5	1200	<0.0001	-	<0.001	<0.001	<0.01	<0.001	0.011	<0.00005	<0.001	0.001	5.3
	Sep-19	0.007	-	4.8	5.7	-	<0.05	680	6.7	1000	<0.0001	0.002	-	<0.001	<0.01	<0.001	<0.005	<0.00005	<0.001	0.014	2.6
	Mar-19	0.055	200	4.4	5.1	<0.05	-	630	-	-	<0.0001	-	<0.001	0.003	<0.01	<0.001	0.007	<0.00005	<0.001	0.004	2.7
	Sep-18	0.007	250	-	1.7	-	<0.05	680	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	<0.005	<0.00005	<0.001	0.003	-
	Mar-18	<0.005	280	-	1.3	-	<0.05	740	-	-	<0.0001	-	0.002	<0.001	-	<0.001	0.009	<0.00005	0.001	0.003	-
	Mar-17	<0.005	310	-	1.4	-	<0.05	860	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	0.012	<0.00005	<0.001	0.001	-
	Sep-16	<0.005	400	-	1.2	-	<0.05	980	-	-	<0.0001	-	<0.001	<0.0001	-	<0.001	<0.005	<0.00005	<0.001	0.006	-
	Mar-16	<0.005	720	-	9.1	-	<0.05	850	-	-	<0.0001	-	<0.001	<0.001	-	<0.001	0.015	<0.00005	<0.001	0.001	-
	Sep-15	BORE INACCESSIBLE																			
	Sep-14	BORE INACCESSIBLE																			
Bore PB	Oct-25	BORE DRY																			
	Apr-25	BORE DRY																			
	Sep-24	BORE DRY																			
	Mar-24	BORE DRY																			
	Sep-23	BORE DRY																			
	Mar-23	BORE DRY																			
	Sep-22	<0.005	93	0.005	0.1	<0.05	-	330	6.4	530	<0.0001	<0.001	-	<0.001	0.08	<0.001	0.007	<0.00005	0.011	0.034	<0.50
	Mar-22	0.43	570	1.2	2.8	0.37	-	1200	6.8	2200	<0.0001	-	<0.001	<0.001	0.34	<0.001	0.005	<0.00005	0.002	0.1	13
	Sep-21	BORE DRY																			
	Mar-21	BORE DRY																			
	Sep-20	BORE DRY																			
	Mar-20	BORE DRY																			
	Sep-19	0.027	-	0.24	4.2	-	<0.05	500	6.6	760	<0.0001	0.028	-	0.002	0.17	<0.001	<0.005	<0.00005	0.002	0.003	2.9
	Mar-19	0.19	420	1.4	2.2	0.06	-	1000	-	-	<0.0001	-	<0.001	0.009	0.08	<0.001	<0.005	<0.00005	0.004	0.024	5.7
	Sep-18	0.077	350	-	4.6	-	<0.05	950	-	-	<0.0001	-	<0.001	0.001	-	<0.001	0.013	<0.00005	0.003	0.012	-
	Mar-18	BORE DRY																			
	Mar-17	BORE DRY																			
	Sep-16	BORE DRY																			
	Mar-16	BORE DRY																			
	Sep-15	BORE DRY																			
	Sep-14	BORE DRY																			

		TPH (vTRH MBTEXN, svTRH)															Field Results		
		C6 - C9	C6 - C10	C6 - C10 less BTEX (F1)	Benzene	Toluene	Ethylbenzene	o-xylene	Napthalene	C10-C14	C15-C28	C29-C36	>C10 - C16	>C10 - C16 less N (F2)	>C16 - C34	>C34 - C40	pH (field)	Electrical Conductivity (field)	Standing Water Level
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH units	µS/cm	mbgl
	EQL																		
	ANZECC 2000 Irrigation Long Term																6.0 - 8.5		
	ANZECC 2000 Irrigation Short Term																		
	DOH 2014				0.01	0.025	0.003	0.02											
	Sampled Date																		
Bore AB	Oct-25	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.0	1802	3.44
	Apr-25	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.5	2019	5.41
	Sep-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.8	2167	4.27
	Mar-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.3	2586	22.12
	Sep-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.5	2158	23.67
	Mar-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.8	2148	4.74
	Sep-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.1	4352	5.2
	Mar-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.9	2275	23.4
	Sep-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.6	1942	25
	Mar-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.8	2705	3.94
	Sep-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.0	2761	3.05
	Mar-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.0	2680	3.53
	Sep-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	2082	2.27
	Mar-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.0	2780	3.71
	Sep-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.9	2069	2.33
	Mar-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.0	2478	-
	Mar-17	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.5	-	-
	Sep-16	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.7	-	-
	Mar-16	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
	Sep-15	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
	Sep-14	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
Bore CB	Oct-25	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.6	1997	8.31
	Apr-25																		
	Sep-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.3	3642	8.84
	Mar-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.8	2667	0.48
	Sep-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.9	2537	1.96
	Mar-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.3	2464	8.45
	Sep-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<.001	<0.05	<0.1	<0.1	<0.05	<0.05	0.1	<0.1	6.2	5039	4.5
	Mar-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.1	2736	1.9
	Sep-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.6	2944	0.5
	Mar-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	4.0	2866	8.65
	Sep-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.5	2995	7.87
	Mar-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.4	2695	8.38
	Sep-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	3006	7.35
	Mar-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.1	2286	8.2
	Sep-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.5	1796	7.01
	Mar-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.8	2470	8.46
	Mar-17	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.4	-	-
	Sep-16	0.047	0.052	0.052	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.8	-	-
	Mar-16	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
	Sep-15	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
	Sep-14	<0.01	<0.01	<0.01	<0.001	0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-

		TPH (vTRH MBTEXN, svTRH)															Field Results		
		C6 - C9	C6 - C10	C6 - C10 less BTEX (F1)	Benzene	Toluene	Ethylbenzene	o-xylene	Napthalene	C10-C14	C15-C28	C29-C36	>C10 - C16	>C10 - C16 less N (F2)	>C16 - C34	>C34 - C40	pH (field)	Electrical Conductivity (field)	Standing Water Level
	Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	pH units	µS/cm	mbgl
	EQL																		
	ANZECC 2000 Irrigation Long Term																6.0 - 8.5		
	ANZECC 2000 Irrigation Short Term																		
	DOH 2014				0.01	0.025	0.003	0.02											
	Sampled Date																		
Bore GB	Oct-25	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.5	1021	2.64
	Apr-25	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.3	1026	4.37
	Sep-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	5.9	1084	3.1
	Mar-24	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.0	1606	5.66
	Sep-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.8	1079	7.19
	Mar-23	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.1	968	3.2
	Sep-22																		
	Mar-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.2	1017	6.5
	Sep-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.1	1010	8.4
	Mar-21	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	4.4	1287	3.41
	Sep-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.5	987	2.3
	Mar-20	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.3	1223	3.15
	Sep-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1		917	1.67
	Mar-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.4	977	3.06
	Sep-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.3	1087	1.57
	Mar-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.3	2011	3.34
	Mar-17	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.7	-	-
	Sep-16	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.9	-	-
	Mar-16	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	-
	Sep-15																		
	Sep-14																		
Bore PB	Oct-25																		
	Apr-25																		
	Sep-24																		
	Mar-24																		
	Sep-23																		
	Mar-23																		
	Sep-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.6	765	10.6
	Mar-22	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	7.5	2073	0.3
	Sep-21																		
	Mar-21																		
	Sep-20																		
	Mar-20																		
	Sep-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	-	-	13.36
	Mar-19	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	0.065	<0.1	<0.1	0.06	0.06	<0.1	<0.1	6.8	140.7	13.36
	Sep-18	<0.01	<0.01	<0.01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.05	<0.1	<0.1	<0.05	<0.05	<0.1	<0.1	6.0	732	13.17
	Mar-18																		
	Mar-17																		
	Sep-16																		
	Mar-16																		
	Sep-15																		
	Sep-14																		

APPENDIX B CHAIN OF CUSTODY

CHAIN OF CUSTODY FORM - Client

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Company:	SERS
Contact Person:	[redacted]
Project Mgr:	
Sampler:	
Address:	
Phone:	
Email Results to:	
Email Invoice to:	

Client Project Name/Number/Site etc (ie report title): 004-04 Walyunga Groundwater monitoring

PO No. (if applicable):

Envirolab Quote No. : 22PE422

Date results required:

Or choose: ☑ Standard ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day

Note: Inform lab in advance if urgent turnaround is required - surcharges apply

Additional report format: ☐ Esdat ☐ Equis

Lab Comments:

Sample information					Tests Required															Comments
Envirolab Sample ID (Lab use only)	Client Sample ID or Information	Depth	Date Sampled	Type of Sample	pH	Electrical conductivity	Ammoniacal nitrogen	Heavy metals	Nitrate and Nitrite	Total Nitrogen	Total phosphorus	TDS	TPH	Potassium and Chloride						Provide as much information about the sample as you can
1	AB		9/04/25	Water	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						Metals- Cadmium, Chromium (total and dissolved), Copper, Iron, Lead, Mercury, Manganese, Nickel, Zinc
	[redacted]																			
2	GB				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
3	QC				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						

Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis

[redacted]

CHAIN OF CUSTODY FORM - Client

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Company:	SERS
Contact Person:	[redacted]
Project Mgr:	
Sampler:	
Address:	
Phone:	
Email Results to:	
Email Invoice to:	

Client Project Name/Number/Site etc (ie report title): 004-04 Walyunga Groundwater Monitoring

PO No. (if applicable):

Envirolab Quote No. : 22PE422

Date results required:

Or choose: ☑ Standard ☐ Same Day ☐ 1 day ☐ 2 day ☐ 3 day

Note: Inform lab in advance if urgent turnaround is required - surcharges apply

Additional report format: ☐ Esdat ☐ Equis

Lab Comments:

Sample information					Tests Required															Comments
Envirolab Sample ID (Lab use only)	Client Sample ID or Information	Depth	Date Sampled	Type of Sample	pH	Electrical Conductivity	Amoniacal Nitrogen	Heavy Metals	Nitrate and Nitrite	Total Nitrogen	Total Phosphorus	TDS	TPH	Potassium and Chloride							Provide as much information about the sample as you can
1	GB	⌐	2/10/25	water	X	→	→	→	→	→	→	→	→	→							Metals - Cadmium, Chromium (total and dissolved), Copper, Iron, Lead, Mercury, Manganese, Nickel, Zinc Note: Please do not consider sediments, if any present.
2	AB	|	↓	↓	X	→	→	→	→	→	→	→	→	→							
3	CB	|	↓	↓	X	→	→	→	→	→	→	→	→	→							
4	QC	⌐	↓	↓	X	→	→	→	→	→	→	→	→	→							

☐ *Please tick the box if observed settled sediment present in water samples is to be included in the extraction and/or analysis*

[redacted]

APPENDIX C –LABORATORY CERTIFICATE OF ANALYSIS

Envirolab Services (WA) Pty Ltd trading as MPL Laboratories
ABN 53 140 099 207
16-18 Hayden Court Myaree WA 6154
ph +61 8 9317 2505
lab@mpl.com.au
www.mpl.com.au

Certificate of Analysis PGD0879

Client Details

Client	SERS Pty Ltd (Perth)
Contact	[redacted]
Address	[redacted]

Sample Details

Your Reference	004-04 Walyunga Groundwater Monitoring
Number of Samples	3 Water
Date Samples Received	09/04/2025
Date Instructions Received	09/04/2025

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	17/04/2025
Date of Issue	17/04/2025

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By

Laboratory Manager

[redacted]

Certificate of Analysis PGD0879

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGD0879-01	AB	Water	09/04/2025	09/04/2025
PGD0879-02	GB	Water	09/04/2025	09/04/2025
PGD0879-03	QC	Water	09/04/2025	09/04/2025

Volatile TRH and BTEX (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
TRH C6-C9	µg/L	10	<10	<10	<10
TRH C6-C10	µg/L	10	<10	<10	<10
TRH C6-C10 less BTEX (F1)	µg/L	10	<10	<10	<10
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	<1.0	<1.0
Benzene	µg/L	1.0	<1.0	<1.0	<1.0
Toluene	µg/L	1.0	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	1.0	<1.0	<1.0	<1.0
meta+para Xylene	µg/L	2.0	<2.0	<2.0	<2.0
ortho-Xylene	µg/L	1.0	<1.0	<1.0	<1.0
Total +ve Xylenes	µg/L	1.0	<1.0	<1.0	<1.0
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	<1.0	<1.0
Total +ve BTEX	µg/L	1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluoromethane	%		*120*	*112*	*108*
Surrogate Toluene-D8	%		*99.3*	*108*	*101*
Surrogate 4-Bromofluorobenzene	%		*101*	*108*	*104*

Certificate of Analysis PGD0879

Semi-volatile TRH (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
TRH C10-C14	µg/L	50	<50	<50	<50
TRH C15-C28	µg/L	100	<100	<100	<100
TRH C29-C36	µg/L	100	<100	<100	<100
Total +ve TRH C10-C36	µg/L	50	<50	<50	<50
TRH >C10-C16	µg/L	50	<50	<50	<50
TRH >C10-C16 less Naphthalene F2	µg/L	50	<50	<50	<50
TRH >C16-C34 (F3)	µg/L	100	<100	<100	<100
TRH >C34-C40 (F4)	µg/L	100	<100	<100	<100
Total +ve TRH >C10-C40	µg/L	50	<50	<50	<50
Surrogate o-Terphenyl	%		*101*	*98.8*	*94.4*

Acid Extractable Metals (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
Phosphorus	mg/L	0.050	0.19	0.10	0.19

Acid Extractable Low Level Metals (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
Chromium	µg/L	1.0	2.4	24	2.6

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Dissolved Low Level Metals (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
Cadmium	µg/L	0.10	<0.10	<0.10	<0.10
Chromium	µg/L	1.0	<1.0	<1.0	<1.0
Copper	µg/L	1.0	<1.0	<1.0	<1.0
Iron	µg/L	10	150	<10	150
Mercury	µg/L	0.050	0.13	<0.050	0.13
Manganese	µg/L	1.0	19	67	19
Nickel	µg/L	1.0	2.4	<1.0	2.5
Lead	µg/L	1.0	<1.0	<1.0	<1.0
Zinc	µg/L	1.0	180	100	190

Certificate of Analysis PGD0879

Inorganics - Physical Parameters (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
pH	pH units		7.1	6.6	7.1
Electrical Conductivity	µS/cm	2.0	2300	1200	2200
Total Dissolved Solids	mg/L	5.0	1300	660	1400

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Inorganics - Ionic Balance and Indexes (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
Chloride	mg/L	1.0	410	250	400
Calcium	mg/L	0.50	78	3.0	78
Magnesium	mg/L	0.50	79	8.4	78
Potassium	mg/L	0.50	13	2.8	13
Sodium	mg/L	0.50	260	200	250
Hardness (calc) equivalent CaCO3	mg/L	3.0	520	42	520

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Inorganics - Nutrients (Water)

Envirolab ID	Units	PQL	PGD0879-01	PGD0879-02	PGD0879-03
Your Reference			AB	GB	QC
Date Sampled			09/04/2025	09/04/2025	09/04/2025
Ammonia as N	mg/L	0.0050	<0.0050	<0.0050	<0.0050
Nitrate as N	mg/L	0.0050	0.41	3.4	0.41
Nitrate as NO3 by calculation	mg/L	0.020	1.8	15	1.8
Nitrite as N	mg/L	0.0050	<0.0050	<0.0050	<0.0050
Nitrite as NO2 by calculation	mg/L	0.020	<0.020	<0.020	<0.020
NOx as N	mg/L	0.0050	0.41	3.4	0.41
TKN as N by calculation	mg/L	0.10	0.66	2.0	0.61
Organic Nitrogen by calc.	mg/L	0.10	0.65	2.0	0.61
Total Nitrogen	mg/L	0.10	1.1	5.3	1.0
Phosphate as P	mg/L	0.0050	0.038	<0.0050	0.039

Method Summary

Method ID	Methodology Summary
Calc	Calculation
Calc - TKN	TKN determined by calculation (Total Nitrogen NOx).
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed.
INORG-018	Total Dissolved Solids determined gravimetrically. The solids are dried at 180±10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation: TDS EC*0.6
INORG-055	Nitrate/Nitrite/NOx/TKN - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils/solids are analysed following a water extraction.
INORG-057	Ammonia - determined colourimetrically. Water samples are filtered on receipt prior to analysis. Soils and OHS media are analysed following a water extraction. Alternatively, Ammonia can be extracted from soil using 1M KCl.
INORG-060	Phosphate - determined colourimetrically using APHA latest edition 4500 P E. Water samples are filtered on receipt prior to analysis. Soils are analysed from a water extract.
INORG-081	Anions determined by Ion Chromatography. Waters samples are filtered on receipt prior to analysis. Solids are analysed from a water extract. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
INORG-127	Total Nitrogen by high temperature catalytic combustion with chemiluminescence detection. Organic Carbon forms (inorganic, organic, total) determined using a TOC/NDIR analyser via combustion. Dissolved forms require filtering prior to determination.
METALS-020	Determination of various metals by ICP-OES. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

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 volume measurements are not covered by Envirolab's NATA accreditation.

Data Quality Assessment Summary PGD0879

Client Details

Client	SERS Pty Ltd (Perth)
Your Reference	004-04 Walyunga Groundwater Monitoring
Date Issued	17/04/2025

Recommended Holding Time Compliance

Recommended holding time exceedances exist - See detailed list below

Quality Control and QC Frequency

QC Type	Compliant	Details
Blank	Yes	No Outliers
LCS	Yes	No Outliers
Duplicates	Yes	No Outliers
Matrix Spike	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
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 PGD0879

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Water	1-3	09/04/2025	11/04/2025	12/04/2025	Yes
sTRH | Water	1-3	09/04/2025	11/04/2025	12/04/2025	Yes
Total Phosphorus | Water	1-3	09/04/2025	11/04/2025	14/04/2025	Yes
Total Metals (LL) | Water	1-3	09/04/2025	11/04/2025	16/04/2025	Yes
Dissolved Metals (LL) | Water	1-3	09/04/2025	11/04/2025	11/04/2025	Yes
Dissolved Metals (LL)-Hg | Water	1-3	09/04/2025	14/04/2025	15/04/2025	Yes
EC | Water	1-3	09/04/2025	10/04/2025	10/04/2025	Yes
pH | Water	1-3	09/04/2025	10/04/2025	10/04/2025	Yes
TDS | Water	1-3	09/04/2025	14/04/2025	14/04/2025	Yes
Chloride | Water	1-3	09/04/2025	11/04/2025	12/04/2025	Yes
Dissolved Cations | Water	1-3	09/04/2025	11/04/2025	14/04/2025	Yes
Nitrogen - Ammonia | Water	1-3	09/04/2025	14/04/2025	14/04/2025	Yes
Nitrogen - Nitrate | Water	1-3	09/04/2025	14/04/2025	14/04/2025	Yes
Nitrogen - Nitrite | Water	1-3	09/04/2025	14/04/2025	14/04/2025	No
Nitrogen - NOx | Water	1-3	09/04/2025	14/04/2025	14/04/2025	No
Nitrogen - Total N | Water	1-3	09/04/2025	15/04/2025	16/04/2025	Yes
Phosphate as P | Water	1-3	09/04/2025	14/04/2025	14/04/2025	No
TKN as N calc | Water	1-3	09/04/2025	14/04/2025	17/04/2025	Yes

Outliers: Matrix Spike

METALS-020|Inorganics - Ionic Balance and Indexes (Water)| Batch BGD2396

Sample ID	Analyte	% Limits	% Recovery
BGD2396-MS1#	Sodium	70 - 130	##[1]

METALS-022|Dissolved Low Level Metals (Water)| Batch BGD2395

Sample ID	Analyte	% Limits	% Recovery
BGD2395-MS1#	Iron	70 - 130	##[1]

Outliers: QC Frequency

ORG-023_F1_TOT|Volatile TRH and BTEX (Water)| Batch BGD2464

Analysis	QC Type	Expected	Reported
vTRH&MBTEXN	Duplicate	2	0
	Matrix Spike	1	0

Quality Control PGD0879

ORG-023_F1_TOT|Volatile TRH and BTEX (Water) | Batch BGD2464

Analyte	Units	PQL	Blank	LCS %
TRH C6-C9	µg/L	10	<10	99.8
TRH C6-C10	µg/L	10	<10	101
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	[NA]
Benzene	µg/L	1.0	<1.0	106
Toluene	µg/L	1.0	<1.0	94.7
Ethylbenzene	µg/L	1.0	<1.0	109
meta+para Xylene	µg/L	2.0	<2.0	110
ortho-Xylene	µg/L	1.0	<1.0	106
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	[NA]
Surrogate Dibromofluoromethane	*%*		*89.6*	*88.7*
Surrogate Toluene-D8	*%*		*92.2*	*101*
Surrogate 4-Bromofluorobenzene	*%*		*93.8*	*107*

ORG-020|Semi-volatile TRH (Water) | Batch BGD2361

Analyte	Units	PQL	Blank	DUP1 BGD2361-DUP1# Samp | QC | RPD %	DUP2 BGD2361-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2361-MS1#
TRH C10-C14	µg/L	50	<50	<50 | <50 | [NA]	56.5 | <50 | [NA]	112	100
TRH C15-C28	µg/L	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA]	117	110
TRH C29-C36	µg/L	100	<100	<100 | <100 | [NA] [2]	<100 | <100 | [NA]	118	108
TRH >C10-C16	µg/L	50	<50	<50 | <50 | [NA]	60.2 | 51.6 | [NA]	115	66.2
TRH >C16-C34 (F3)	µg/L	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA]	117	110
TRH >C34-C40 (F4)	µg/L	100	<100	<100 | <100 | [NA] [2]	<100 | <100 | [NA] [2]	108	101
Surrogate o-Terphenyl	*%*		*105*	*93.4 | 106*	*106 | 94.5*	*109*	*100*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020|Acid Extractable Metals (Water) | Batch BGD2394

Analyte	Units	PQL	Blank	DUP1 BGD2394-DUP1# Samp | QC | RPD %	DUP2 BGD2394-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2394-MS1#
Phosphorus	mg/L	0.050	<0.050	0.0590 | 0.0564 | [NA]	<0.050 | <0.050 | [NA]	106	111

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022|Acid Extractable Low Level Metals (Water) | Batch BGD2393

Analyte	Units	PQL	Blank	DUP1 BGD2393-DUP1# Samp | QC | RPD %	DUP2 BGD2393-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2393-MS1#
Chromium	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	1.27 | 1.03 | [NA]	117	114

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022|Dissolved Low Level Metals (Water) | Batch BGD2395

Analyte	Units	PQL	Blank	DUP1 BGD2395-DUP1# Samp | QC | RPD %	DUP2 BGD2395-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2395-MS1#
Cadmium	µg/L	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	106	103
Chromium	µg/L	1.0	<1.0	1.85 | 1.77 | [NA]	<1.0 | <1.0 | [NA]	92.4	92.9
Copper	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	1.32 | 1.18 | [NA]	92.8	92.3
Iron	µg/L	10	<10	1540 | 1560 | 1.19	32.5 | 32.2 | [NA]	98.7	##[1]
Lead	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	98.7	97.8
Manganese	µg/L	1.0	<1.0	11.7 | 11.2 | 4.33	3.78 | 3.90 | [NA]	92.1	90.2
Nickel	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	93.4	91.7
Zinc	µg/L	1.0	<1.0	1.24 | 1.27 | [NA]	3.96 | 3.80 | [NA]	98.8	95.1

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PGD0879

METALS-021|Dissolved Low Level Metals (Water) | Batch BGD2590

Analyte	Units	PQL	Blank	DUP1 BGD2590-DUP1# Samp | QC | RPD %	DUP2 BGD2590-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2590-MS1#
Mercury	µg/L	0.050	<0.050	<0.050 | <0.050 | [NA]	<0.050 | <0.050 | [NA]	80.8	73.2

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-001|Inorganics - Physical Parameters (Water) | Batch BGD2243

Analyte	Units	PQL	Blank	DUP1 BGD2243-DUP1# Samp | QC | RPD %	DUP2 BGD2243-DUP2# Samp | QC | RPD %	LCS %
pH	pH units		5.8	6.5 | 6.6 | 1.23	6.4 | 6.4 | 0.00	102
Electrical Conductivity	µS/cm	2.0	3.90	135000 | 137000 | 1.13	62700 | 62800 | 0.0298	103

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-001|Inorganics - Physical Parameters (Water) | Batch BGD2244

Analyte	Units	PQL	Blank	DUP1 PGD0879-02 Samp | QC | RPD %	DUP2 BGD2244-DUP2# Samp | QC | RPD %	LCS %
pH	pH units			6.6 | 6.6 | 0.303	7.0 | 7.0 | 0.569	105
Electrical Conductivity	µS/cm	2		1170 | 1170 | 0.0256	1190 | 1200 | 0.235	103

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-018|Inorganics - Physical Parameters (Water) | Batch BGD2510

Analyte	Units	PQL	Blank	DUP1 PGD0879-01 Samp | QC | RPD %	DUP2 BGD2510-DUP2# Samp | QC | RPD %	LCS %
Total Dissolved Solids	mg/L	5.0	<5.0	1320 | 1270 | 4.33	416 | 427 | 2.61	98.0

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-081|Inorganics - Ionic Balance and Indexes (Water) | Batch BGD2354

Analyte	Units	PQL	Blank	DUP1 BGD2354-DUP1# Samp | QC | RPD %	DUP2 BGD2354-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2354-MS1#
Chloride	mg/L	1.0	<1.0	162 | 161 | 0.312	109 | 110 | 0.914	100	107

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020|Inorganics - Ionic Balance and Indexes (Water) | Batch BGD2396

Analyte	Units	PQL	Blank	DUP1 BGD2396-DUP1# Samp | QC | RPD %	DUP2 BGD2396-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2396-MS1#
Calcium	mg/L	0.50	<0.50	53.7 | 52.4 | 2.27	10.2 | 10.3 | 0.146	90.3	82.3
Magnesium	mg/L	0.50	<0.50	15.4 | 14.9 | 2.84	4.48 | 4.51 | 0.788	94.4	89.6
Potassium	mg/L	0.50	<0.50	4.89 | 4.84 | 1.07	4.17 | 4.27 | 2.36	93.2	92.6
Sodium	mg/L	0.50	<0.50	143 | 140 | 1.84	40.9 | 41.2 | 0.673	98.3	##[1]
Hardness (calc) equivalent CaCO3	mg/L	3.0	<3.0	197 | 192 | 2.45	44.0 | 44.2 | 0.416	[NA]	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PGD0879

INORG-057 | Inorganics - Nutrients (Water) | Batch BGD2538

Analyte	Units	PQL	Blank	DUP1 BGD2538-DUP1# Samp | QC | RPD %	DUP2 BGD2538-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2538-MS1#
Ammonia as N	mg/L	0.0050	<0.0050	0.0101 | 0.0113 | [NA]	0.108 | 0.111 | 2.74	87.5	96.4
Nitrate as N	mg/L	0.0050	0.0050	0.0050 | 0.0050 | [NA]	0.0580 | 0.0606 | 4.29	80.0	81.3
Nitrate as NO3 by calculation	mg/L	0.020	<0.020			[NA]	[NA]
Nitrite as N	mg/L	0.0050	<0.0050	<0.0050 | <0.0050 | [NA]	<0.0050 | <0.0050 | [NA]	90.4	99.6
Nitrite as NO2 by calculation	mg/L	0.020	<0.020			[NA]	[NA]
NOx as N	mg/L	0.0050	<0.0050	<0.0050 | <0.0050 | [NA]	0.0580 | 0.0606 | 4.36	80.0	81.3
Phosphate as P	mg/L	0.0050	<0.0050	0.0103 | 0.00842 | [NA] [2]	0.0330 | 0.0334 | 1.25	108	117

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-127 | Inorganics - Nutrients (Water) | Batch BGD2905

Analyte	Units	PQL	Blank	DUP1 BGD2905-DUP1# Samp | QC | RPD %	DUP2 BGD2905-DUP2# Samp | QC | RPD %	LCS %	Spike % BGD2905-MS1#
Total Nitrogen	mg/L	0.10	<0.10	1.24 | 1.25 | 0.845	2.19 | 2.26 | 3.35	107	96.4

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.

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Certificate of Analysis PGJ0245

Client Details

Client	SERS Pty Ltd (Perth)
Contact	[redacted]
Address	

Sample Details

Your Reference	004-04 Walyunga Groundwater Monitoring
Number of Samples	4 Water
Date Samples Received	02/10/2025
Date Instructions Received	02/10/2025

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	10/10/2025
Date of Issue	09/10/2025

Accredited for compliance with ISO/IEC 17025. Tests not covered by NATA are denoted with *.

Authorisation Details

Results Approved By	[redacted]
Laboratory Manager	

Certificate of Analysis PGJ0245

Samples in this Report

Envirolab ID	Sample ID	Matrix	Date Sampled	Date Received
PGJ0245-01	GB	Water	02/10/2025	02/10/2025
PGJ0245-02	AB	Water	02/10/2025	02/10/2025
PGJ0245-03	CB	Water	02/10/2025	02/10/2025
PGJ0245-04	QC	Water	02/10/2025	02/10/2025

Volatile TRH and BTEX (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
TRH C6-C9	µg/L	10	<10	<10	<10	<10
TRH C6-C10	µg/L	10	<10	<10	<10	<10
TRH C6-C10 less BTEX (F1)	µg/L	10	<10	<10	<10	<10
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Benzene	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Toluene	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Ethylbenzene	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
meta+para Xylene	µg/L	2.0	<2.0	<2.0	<2.0	<2.0
ortho-Xylene	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Total +ve Xylenes	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Total +ve BTEX	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Surrogate Dibromofluoromethane	%		*106*	*108*	*108*	*108*
Surrogate Toluene-D8	%		*86.9*	*107*	*108*	*108*
Surrogate 4-Bromofluorobenzene	%		*92.0*	*90.1*	*91.3*	*92.0*

Semi-volatile TRH (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
TRH C10-C14	µg/L	50	<50	<50	<50	<50
TRH C15-C28	µg/L	100	<100	<100	<100	<100
TRH C29-C36	µg/L	100	<100	<100	<100	<100
Total +ve TRH C10-C36	µg/L	50	<50	<50	<50	<50
TRH >C10-C16	µg/L	50	<50	<50	<50	<50
TRH >C10-C16 less Naphthalene F2	µg/L	50	<50	<50	<50	<50
TRH >C16-C34 (F3)	µg/L	100	<100	<100	<100	<100
TRH >C34-C40 (F4)	µg/L	100	<100	<100	<100	<100
Total +ve TRH >C10-C40	µg/L	50	<50	<50	<50	<50
Surrogate o-Terphenyl	%		*99.9*	*93.1*	*89.2*	*88.2*

Acid Extractable Metals (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
Phosphorus	mg/L	0.050	0.092	0.077	0.15	0.098

Certificate of Analysis PGJ0245

Acid Extractable Low Level Metals (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
Chromium	µg/L	1.0	15	1.1	24	17

Certificate of Analysis PGJ0245

Dissolved Low Level Metals (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
Cadmium	µg/L	0.10	<0.10	<0.10	<0.10	<0.10
Chromium	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Copper	µg/L	1.0	<1.0	1.4	<1.0	<1.0
Iron	µg/L	10	<10	36	<10	<10
Mercury	µg/L	0.050	<0.050	0.37 [3]	<0.050	<0.050
Manganese	µg/L	1.0	56	15	8.3	54
Nickel	µg/L	1.0	<1.0	2.4	3.1	<1.0
Lead	µg/L	1.0	<1.0	<1.0	<1.0	<1.0
Zinc	µg/L	1.0	80	48	77	77

Certificate of Analysis PGJ0245

Inorganics - Physical Parameters (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
pH	pH units		6.7	7.2	5.8	6.7
Electrical Conductivity	µS/cm	2.0	1100	1900	2100	1100
Total Dissolved Solids	mg/L	5.0	650	1100	1400	620

Inorganics - Ionic Balance and Indexes (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
Chloride	mg/L	1.0	230	420	440	230
Calcium	mg/L	0.50	2.4	46	13	2.2
Magnesium	mg/L	0.50	7.8	58	86	7.5
Potassium	mg/L	0.50	3.0	12	4.4	3.0
Sodium	mg/L	0.50	190	240	270	190
Hardness (calc) equivalent CaCO3	mg/L	3.0	38	360	380	37

Inorganics - Nutrients (Water)

Envirolab ID	Units	PQL	PGJ0245-01	PGJ0245-02	PGJ0245-03	PGJ0245-04
Your Reference			GB	AB	CB	QC
Date Sampled			02/10/2025	02/10/2025	02/10/2025	02/10/2025
Ammonia as N	mg/L	0.0050	0.042	0.0096	0.016	0.044
Nitrate as N	mg/L	0.0050	2.9	0.49	33	3.0
Nitrate as NO3 by calculation	mg/L	0.020	13	2.1	150	13
Nitrite as N	mg/L	0.0050	0.020	<0.0050	<0.0050	0.020
Nitrite as NO2 by calculation	mg/L	0.020	0.065	<0.020	<0.020	0.066
NOx as N	mg/L	0.0050	3.0	0.49	33	3.0
TKN as N by calculation	mg/L	0.10	0.50	0.40	1.4	0.43
Organic Nitrogen by calc.	mg/L	0.10	0.46	0.39	1.3	0.39
Total Nitrogen	mg/L	0.10	3.5	0.88	34	3.4
Phosphate as P	mg/L	0.0050	0.010	0.041	0.0073	0.0074

Result Comments

Identifier	Description
[3]	Results have been confirmed through reanalysis.

Method Summary

Method ID	Methodology Summary
Calc	Calculation
Calc - TKN	TKN determined by calculation (Total Nitrogen NOx).
INORG-001	pH - Measured using pH meter and electrode. Please note that the results for water analyses are indicative only, as analysis can be completed outside of the recommended holding times. Solids are reported from a 1:5 water extract unless otherwise specified. Alternatively, pH is determined in a 1:5 extract using 0.01M calcium chloride or a solid is extracted at a ratio of 1:2.5 (AS1289.4.3.1), pH is measured in the extract.
INORG-002	Conductivity and Salinity - measured using a conductivity cell at 25°C. Soil results reported from a 1:5 Soil:Water extract unless otherwise specified. Please note Resistivity is estimated by calculation and may not correlate with results otherwise obtained using the Resistivity current method (based on AS 1289.4.4.1), depending on the nature of the soil being analysed. Blanks may yield EC readings >1µS/cm, this is likely due to adsorption of Carbon Dioxide while the blank sample is sat on the instrument autosampler prior to analysis. The values are generally insignificant (<5µS/cm) compared to most actual sample conductivities.
INORG-018	Total Dissolved Solids determined gravimetrically. The solids are dried at 180±10°C. NOTE: Where the EC of the sample is <100µS/cm, the TDS will typically be below 70mg/L (as the sample is very likely to be at least drinking water quality). Therefore to ensure data quality for TDS, the TDS is typically calculated as per the equation: TDS EC*0.6
INORG-055	Nitrate/Nitrite/NOx/TKN - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils/solids are analysed following a water extraction.
INORG-057	Ammonia - determined colourimetrically. Water samples are filtered on receipt prior to analysis. Soils and OHS media are analysed following a water extraction. Alternatively, Ammonia can be extracted from soil using 1M KCl.
INORG-060	Phosphate - determined colourimetrically using APHA latest edition 4500 P E. Water samples are filtered on receipt prior to analysis. Soils are analysed from a water extract.
INORG-081	Anions determined by Ion Chromatography. Waters samples are filtered on receipt prior to analysis. Solids are analysed from a water extract. Alternatively determined by colourimetry/turbidity using Discrete Analyser.
INORG-127	Total Nitrogen by high temperature catalytic combustion with chemiluminescence detection. Organic Carbon forms (inorganic, organic, total) determined using a TOC/NDIR analyser via combustion. Dissolved forms require filtering prior to determination.
METALS-020	Determination of various metals by ICP-OES. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
METALS-021	Determination of Mercury by Cold Vapour AAS.
METALS-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
ORG-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis. Note, the Total +ve TRH PQL is reflective of the lowest individual PQL and is therefore "Total +ve TRH" is simply a sum of the positive individual TRH fractions (>C10-C40).
ORG-023_F1_TOT	Determination of volatile organic compounds (VOCs) by P&T-GC-MS. Water samples are analysed directly by purge and trap GC-MS. Solids are extracted with Methanol, diluted and analysed by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

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 PGJ0245

Client Details

Client	SERS Pty Ltd (Perth)
Your Reference	004-04 Walyunga Groundwater Monitoring
Date Issued	09/10/2025

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	No	Matrix Spike Outliers Exist - See detailed list below
Surrogates / Extracted Internal Standards	Yes	No Outliers
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 PGJ0245

Recommended Holding Time Compliance

Analysis	Sample Number(s)	Date Sampled	Date Extracted	Date Analysed	Compliant
vTRH&MBTEXN | Water	1-4	02/10/2025	03/10/2025	05/10/2025	Yes
sTRH | Water	1-4	02/10/2025	06/10/2025	07/10/2025	Yes
Total Phosphorus | Water	1-4	02/10/2025	07/10/2025	07/10/2025	Yes
Total Metals (LL) | Water	1-4	02/10/2025	07/10/2025	08/10/2025	Yes
Dissolved Metals (LL) | Water	2-3	02/10/2025	07/10/2025	07/10/2025	Yes
	1	02/10/2025	07/10/2025	08/10/2025	Yes
	4	02/10/2025	08/10/2025	08/10/2025	Yes
Dissolved Metals (LL)-Hg | Water	1-4	02/10/2025	07/10/2025	07/10/2025	Yes
EC | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
pH | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
TDS | Water	1-4	02/10/2025	06/10/2025	06/10/2025	Yes
Chloride | Water	1-4	02/10/2025	03/10/2025	07/10/2025	Yes
Dissolved Cations | Water	1-3	02/10/2025	07/10/2025	07/10/2025	Yes
	4	02/10/2025	08/10/2025	08/10/2025	Yes
Nitrogen - Ammonia | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
Nitrogen - Nitrate | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
Nitrogen - Nitrite | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
Nitrogen - NOx | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
Nitrogen - Total N | Water	1-4	02/10/2025	06/10/2025	07/10/2025	Yes
Phosphate as P | Water	1-4	02/10/2025	03/10/2025	03/10/2025	Yes
TKN as N calc | Water	1-4	02/10/2025	08/10/2025	09/10/2025	Yes

Outliers: Matrix Spike

METALS-022|Dissolved Low Level Metals (Water)| Batch BGJ1274

Sample ID	Analyte	% Limits	% Recovery
BGJ1274-MS1#	Copper	70 - 130	##[1]

Outliers: QC Frequency

ORG-023_F1_TOT|Volatile TRH and BTEX (Water)| Batch BGJ0682

Analysis	QC Type	Expected	Reported
vTRH&MBTEXN	Duplicate	2	0
	Matrix Spike	1	0

Quality Control PGJ0245

ORG-023_F1_TOT|Volatile TRH and BTEX (Water) | Batch BGJ0682

Analyte	Units	PQL	Blank	LCS %
TRH C6-C9	µg/L	10	<10	98.5
TRH C6-C10	µg/L	10	<10	103
Methyl tert butyl ether (MTBE)	µg/L	1.0	<1.0	[NA]
Benzene	µg/L	1.0	<1.0	105
Toluene	µg/L	1.0	<1.0	108
Ethylbenzene	µg/L	1.0	<1.0	104
meta+para Xylene	µg/L	2.0	<2.0	98.5
ortho-Xylene	µg/L	1.0	<1.0	105
Naphthalene (value used in F2 calc)	µg/L	1.0	<1.0	[NA]
Surrogate Dibromofluoromethane	*%*		*97.8*	*106*
Surrogate Toluene-D8	*%*		*107*	*103*
Surrogate 4-Bromofluorobenzene	*%*		*95.1*	*100*

ORG-020|Semi-volatile TRH (Water) | Batch BGJ0878

Analyte	Units	PQL	Blank	DUP1 PGJ0245-01 Samp | QC | RPD %	DUP2 BGJ0878-DUP2# Samp | QC | RPD %	LCS %	Spike % PGJ0245-02
TRH C10-C14	µg/L	50	<50	<50 | <50 | [NA]	<50 | <50 | [NA]	101	98.6
TRH C15-C28	µg/L	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA] [2]	111	109
TRH C29-C36	µg/L	100	<100	<100 | <100 | [NA] [2]	<100 | <100 | [NA] [2]	95.6	83.6
TRH >C10-C16	µg/L	50	<50	<50 | <50 | [NA]	<50 | <50 | [NA]	112	109
TRH >C16-C34 (F3)	µg/L	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA] [2]	108	105
TRH >C34-C40 (F4)	µg/L	100	<100	<100 | <100 | [NA]	<100 | <100 | [NA] [2]	109	111
Surrogate o-Terphenyl	*%*		*97.6*	*99.9 | 85.8*	*91.3 | 83.9*	*94.3*	*104*

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020|Acid Extractable Metals (Water) | Batch BGJ1018

Analyte	Units	PQL	Blank	DUP1 PGJ0245-01 Samp | QC | RPD %	DUP2 BGJ1018-DUP2# Samp | QC | RPD %	LCS %	Spike % PGJ0245-03
Phosphorus	mg/L	0.05		0.0922 | 0.0953 | [NA]	<0.050 | <0.050 | [NA]	99.0	93.2

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022|Acid Extractable Low Level Metals (Water) | Batch BGJ1016

Analyte	Units	PQL	Blank	DUP1 PGJ0245-01 Samp | QC | RPD %	DUP2 BGJ1016-DUP2# Samp | QC | RPD %	LCS %	Spike % PGJ0245-02
Chromium	µg/L	1.0	<1.0	14.8 | 15.5 | 4.16	<1.0 | <1.0 | [NA]	103	101

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022|Dissolved Low Level Metals (Water) | Batch BGJ1040

Analyte	Units	PQL	Blank	DUP1 BGJ1040-DUP1# Samp | QC | RPD %	DUP2 BGJ1040-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ1040-MS1#
Cadmium	µg/L	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	102	96.3
Chromium	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	96.5	95.5
Copper	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	1.29 | 1.28 | [NA]	95.8	92.0
Iron	µg/L	10	<10	15.9 | 15.9 | [NA]	502 | 505 | 0.543	94.4	95.4
Lead	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	99.7	94.5
Manganese	µg/L	1.0	<1.0	38.2 | 38.2 | 0.212	8.76 | 8.69 | 0.757	94.3	92.2
Nickel	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	96.6	92.3
Zinc	µg/L	1.0	<1.0	16.0 | 15.9 | 0.810	3.81 | 3.61 | [NA]	99.2	90.7

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PGJ0245

METALS-021|Dissolved Low Level Metals (Water) | Batch BGJ1066

Analyte	Units	PQL	Blank	DUP1 BGJ1066-DUP1# Samp | QC | RPD %	DUP2 BGJ1066-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ1066-MS1#
Mercury	µg/L	0.050	<0.050	<0.050 | <0.050 | [NA]	<0.050 | <0.050 | [NA]	85.6	75.6

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-022|Dissolved Low Level Metals (Water) | Batch BGJ1274

Analyte	Units	PQL	Blank	DUP1 BGJ1274-DUP1# Samp | QC | RPD %	DUP2 BGJ1274-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ1274-MS1#
Cadmium	µg/L	0.10	<0.10	<0.10 | <0.10 | [NA]	<0.10 | <0.10 | [NA]	94.5	97.3
Chromium	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	93.4	98.2
Copper	µg/L	1.0	<1.0	3.20 | 3.15 | [NA]	1.56 | 1.64 | [NA]	94.6	##[1]
Iron	µg/L	10	<10	19.7 | 19.4 | [NA]	401 | 406 | 1.12	93.6	95.5
Lead	µg/L	1.0	<1.0	<1.0 | <1.0 | [NA]	<1.0 | <1.0 | [NA]	89.6	90.1
Manganese	µg/L	1.0	<1.0	3.90 | 3.89 | [NA]	76.4 | 77.8 | 1.76	90.4	95.4
Nickel	µg/L	1.0	<1.0	1.41 | 1.40 | [NA]	1.04 | 1.06 | [NA]	94.3	96.2
Zinc	µg/L	1.0	<1.0	11.2 | 10.8 | 3.65	10.1 | 10.1 | 0.515	94.6	95.2

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-001|Inorganics - Physical Parameters (Water) | Batch BGJ0672

Analyte	Units	PQL	Blank	DUP1 BGJ0672-DUP1# Samp | QC | RPD %	DUP2 BGJ0672-DUP2# Samp | QC | RPD %	LCS %
pH	pH units		6.2	7.3 | 7.3 | 0.00	7.1 | 7.1 | 0.281	102
Electrical Conductivity	µS/cm	2.0	<2.0	1200 | 1180 | 1.45	482 | 480 | 0.395	97.8

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-018|Inorganics - Physical Parameters (Water) | Batch BGJ0749

Analyte	Units	PQL	Blank	DUP1 BGJ0749-DUP1# Samp | QC | RPD %	DUP2 PGJ0245-04 Samp | QC | RPD %	LCS %
Total Dissolved Solids	mg/L	5.0	<5.0	1140 | 1120 | 1.94	625 | 643 | 2.84	103

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-081|Inorganics - Ionic Balance and Indexes (Water) | Batch BGJ0702

Analyte	Units	PQL	Blank	DUP1 BGJ0702-DUP1# Samp | QC | RPD %	DUP2 PGJ0245-01 Samp | QC | RPD %	LCS %	Spike % BGJ0702-MS1#
Chloride	mg/L	1.0	<1.0	137 | 137 | 0.0915	230 | 230 | 0.171	95.3	97.4

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

METALS-020|Inorganics - Ionic Balance and Indexes (Water) | Batch BGJ1041

Analyte	Units	PQL	Blank	DUP1 BGJ1041-DUP1# Samp | QC | RPD %	DUP2 BGJ1041-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ1041-MS1#
Calcium	mg/L	0.50	<0.50	93.6 | 94.3 | 0.767	68.8 | 68.0 | 1.20	104	91.9
Magnesium	mg/L	0.50	<0.50	34.2 | 34.1 | 0.0264	20.3 | 20.3 | 0.197	103	96.6
Potassium	mg/L	0.50	<0.50	26.7 | 26.5 | 0.891	9.11 | 9.12 | 0.181	104	96.4
Sodium	mg/L	0.50	<0.50	642 | 642 | 0.0203	145 | 145 | 0.0138	96.9	93.7
Hardness (calc) equivalent CaCO3	mg/L	3.0	<3.0	374 | 376 | 0.469	255 | 253 | 0.739	[NA]	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

Quality Control PGJ0245

METALS-020|Inorganics - Ionic Balance and Indexes (Water) | Batch BGJ1276

Analyte	Units	PQL	Blank	DUP1 BGJ1276-DUP1# Samp | QC | RPD %	DUP2 BGJ1276-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ1276-MS1#
Calcium	mg/L	0.50	<0.50	9.19 | 9.27 | 0.842	71.6 | 71.4 | 0.234	97.7	97.4
Magnesium	mg/L	0.50	<0.50	11.1 | 11.1 | 0.0539	68.6 | 68.5 | 0.131	96.7	93.5
Potassium	mg/L	0.50	<0.50	2.97 | 2.95 | 0.604	2.22 | 2.19 | [NA]	95.3	95.0
Sodium	mg/L	0.50	<0.50	79.2 | 79.0 | 0.139	187 | 186 | 0.349	88.1	92.1
Hardness (calc) equivalent CaCO3	mg/L	3.0	<3.0	68.8 | 69.0 | 0.317	461 | 460 | 0.171	[NA]	[NA]

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-057|Inorganics - Nutrients (Water) | Batch BGJ0715

Analyte	Units	PQL	Blank	DUP1 BGJ0715-DUP1# Samp | QC | RPD %	DUP2 BGJ0715-DUP2# Samp | QC | RPD %	LCS %	Spike % BGJ0715-MS1#
Ammonia as N	mg/L	0.0050	<0.0050	<0.0050 | <0.0050 | [NA]	<0.0050 | <0.0050 | [NA]	101	104
Nitrate as N	mg/L	0.0050	<0.0050	0.240 | 0.201 | 17.7	<0.0050 | <0.0050 | [NA]	107	106
Nitrate as NO3 by calculation	mg/L	0.020	<0.020			[NA]	[NA]
Nitrite as N	mg/L	0.0050	<0.0050	<0.0050 | <0.0050 | [NA]	<0.0050 | <0.0050 | [NA]	108	120
Nitrite as NO2 by calculation	mg/L	0.020	<0.020			[NA]	[NA]
NOx as N	mg/L	0.0050	<0.0050	0.240 | 0.201 | 17.7	<0.0050 | <0.0050 | [NA]	107	106
Phosphate as P	mg/L	0.0050	<0.0050	0.0163 | 0.0163 | [NA]	0.00818 | 0.00856 | [NA]	116	110

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

INORG-127|Inorganics - Nutrients (Water) | Batch BGJ0745

Analyte	Units	PQL	Blank	DUP1 BGJ0745-DUP1# Samp | QC | RPD %	DUP2 PGJ0245-01 Samp | QC | RPD %	LCS %	Spike % BGJ0745-MS1#
Total Nitrogen	mg/L	0.10	<0.10	0.566 | 0.584 | 3.19	3.47 | 3.27 | 5.80	97.1	90.1

The QC reported was not specifically part of this workorder but formed part of the QC process batch.

QC Comments

Identifier	Description
[1]	Spike recovery is not applicable due to the relatively high analyte background in the sample (>3* spike level). However, the LCS recovery is within acceptance criteria.
[2]	Duplicate %RPD may be flagged as an outlier to routine laboratory acceptance, however, where one or both results are <10*PQL, the RPD acceptance criteria increases exponentially.

APPENDIX D – ANNUAL AUDIT COMPLIANCE REPORT 012026-122026

Government of **Western Australia**
Department of **Water and Environmental Regulation**

Annual Audit Compliance Report Form

Environmental Protection Act 1986, Part V

Section A – Licence Details			
Licence number:	L8970/2016/3	Licence file number:	DER2016/000736-1
Licence holder:	Brajkovich Landfill & Recycling (WA) Pty Ltd		
Trading as:	Brajkovich Landfill & Recycling (WA) Pty Ltd		
ACN:	650 334 375		
Registered address:	Suite 3, Walter Drive, Osborne Park WA 6017		
Reporting period:	01 / 04 / 2025 **to** 31 / 03 / 2026		

Section B – Statement of Compliance with Licence Conditions
Did you comply with all of your licence conditions during the reporting period? (please tick the appropriate box)
☒Yes – please complete: • section C; • section D if required; and • sign the declaration in Section F.
☐No – please complete: • section C; • section D if required; • section E; and • sign the declaration at Section F.

Section C – Statement of Actual Production	
Provide the actual production quantity for this reporting period. Supporting documentation is to be attached.	
Prescribed Premises Category	**Actual Production Quantity**
Category 62 and 63	435,013.8

Section D – Statement of Actual Part 2 Waste Discharge Quantity	
Provide the actual Part 2 waste discharge quantity for this reporting period. Supporting documentation is to be attached.	
Prescribed Premises Category	**Actual Part 2 Waste Discharge Quantity**
N/A	---

Section E – Details of Non-Compliance with Licence Condition			
Please use a separate page for each condition with which the licence holder was non-compliant at a time during the reporting period.			
Condition no:	N/A	Date(s) of non-compliance:	N/A
Details of non-compliance:			
N/A			
What was the actual (or suspected) environmental impact of the non-compliance? **NOTE** – please attach maps or diagrams to provide insight into the precise location of where the non-compliance took place.			
N/A			
Cause (or suspected cause) of non-compliance:			
N/A			
Action taken to mitigate any adverse effects of non-compliance and prevent recurrence of the non-compliance:			
N/A			
Was this non-compliance previously reported to DWER?			
☐ Yes, and			
☐ Reported to DWER verbally		Date: / /	
☐ Reported to DWER in writing		Date: / /	

Section F – Declaration

I/We declare that the information in this Annual Audit Compliance Report is true and correct and is not false or misleading in a material particular.[1]. I/We consent to the Annual Audit Compliance Report being published on the Department of Water and Environmental Regulation's (DWER) website.

[redacted]

Date:	23/04/2026	Date:	
Seal (if signing under seal):			

[1] It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular.
[2] AACRs can only be signed by the licence holder or an authorised person with the legal authority to sign on behalf of the licence holder.

END OF REPORT