APAL
3 / 11 Ridley Street
HINDMARSH
SA 5007

NATA Accredited
Accreditation Number 1261
Site Number 1254

Accredited for compliance with ISO/IEC 17025 – Testing
NATA is a signatory to the ILAC Mutual Recognition Arrangement for the mutual recognition of the equivalence of testing, medical testing, calibration, inspection, proficiency testing scheme providers and reference materials producers reports and certificates.

Attention: **Cathy Griff Send SRA**

Report **1340368-W**
Project name Riverland Backyard Worms - Randell Smith
Received Date Mar 27, 2026

Client Sample ID			G01 **Wee (111888265)**
Sample Matrix			**Water**
Eurofins Sample No.			**M26-Ma0085223**
Date Sampled			**Not Provided** I12
Test/Reference	LOR	Unit	
Heavy Metals			
Antimony	0.005	mg/L	< 0.05
Arsenic	0.001	mg/L	0.026
Barium	0.02	mg/L	< 0.2
Beryllium	0.001	mg/L	< 0.01
Boron	0.05	mg/L	1.7
Cadmium	0.0002	mg/L	< 0.002
Chromium	0.001	mg/L	0.016
Cobalt	0.001	mg/L	0.026
Copper	0.001	mg/L	0.11
Lead	0.001	mg/L	0.012
Manganese	0.005	mg/L	0.63
Mercury	0.0001	mg/L	< 0.001
Molybdenum	0.005	mg/L	< 0.05
Nickel	0.001	mg/L	0.096
Selenium	0.001	mg/L	< 0.01
Tin	0.005	mg/L	< 0.05
Vanadium	0.005	mg/L	0.057
Zinc	0.005	mg/L	0.39

Sample History

Where samples are submitted/analysed over several days, the last date of extraction is reported.

If the date and time of sampling are not provided, the Laboratory will not be responsible for compromised results should testing be performed outside the recommended holding time.

Description	Testing Site	Extracted	Holding Time
Heavy Metals	Melbourne	Mar 27, 2026	28 Days

- Method: LTM-MET-3040 Metals in Waters, Soils & Sediments by ICP-MS

eurofins

web: www.eurofins.com.au
email: EnviroSales@eurofinsanz.com

Eurofins Environment Testing Australia Pty Ltd
ABN: 50 005 085 521

Melbourne	Geelong	Sydney	Newcastle	Canberra	Brisbane	Hobart
6 Monterey Road Dandenong South VIC 3175 +61 3 8564 5000 NATA# 1261 Site# 1254	19/8 Lewalan Street Grovedale VIC 3216 +61 3 8564 5000 NATA# 1261 Site# 25403	179 Magowar Road Girraween NSW 2145 +61 2 9900 8400 NATA# 1261 Site# 18217	1/2 Frost Drive Mayfield West NSW 2304 +61 2 4968 8448 NATA# 1261 Site# 25079	Unit 1,2 Dacre Street Mitchell ACT 2911 +61 2 6113 8091 NATA# 1261 Site# 25466	1/21 Smallwood Place Murarrie QLD 4172 +61 7 3902 4600 NATA# 1261 Site# 20794 & 2780	282A Argyle Street North Hobart TAS 7000 +61 3 8564 5000 NATA# 1261 Site# 1254

Eurofins ARL Pty Ltd
ABN: 91 05 0159 898

Perth
46-48 Banksia Road Welshpool WA 6106 +61 8 6253 4444 NATA# 2377 Site# 2370 & 2554

Company Name: Eurofins APAL
Address: 3 / 11 Ridley Street
HINDMARSH
SA 5007

Project Name: Riverland Backyard Worms - Randell Smith

Order No.:
Report #: 1340368
Phone: 08 8332 0199
Fax: 08 8361 2715

Received: Mar 27, 2026 3:00 PM
Due: Apr 7, 2026
Priority: 5 Day
Contact Name: Cathy Griff Send SRA

Eurofins Analytical Services Manager : Karl Bulow

Sample Detail						Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Chromium	Cobalt	Copper	Lead	Manganese	Mercury	Molybdenum	Nickel	Selenium	Tin	Vanadium	Zinc
Melbourne Laboratory - NATA # 1261 Site # 1254						X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
External Laboratory																							
No	**Sample ID**	**Sample Date**	**Sampling Time**	**Matrix**	**LAB ID**																		
1	Wee (111888265)	Not Provided		Water	M26-Ma0085223	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Test Counts						1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1

eurofins | Environment Testing

Internal Quality Control Review and Glossary

General

1. Laboratory QC results for Method Blanks, Duplicates, Matrix Spikes, and Laboratory Control Samples follow guidelines delineated in the National Environment Protection (Assessment of Site Contamination) Measure 1999, as amended May 2013. They are included in this QC report where applicable. Additional QC data may be available on request.
2. Unless otherwise stated, all soil/sediment/solid results are reported on a dry weight basis.
3. Unless otherwise stated, all biota/food results are reported on a wet weight basis on the edible portion.
4. For CEC results where the sample's origin is unknown or environmentally contaminated, the results should be used advisedly.
5. Actual LORs are matrix dependent. Quoted LORs may be raised where sample extracts are diluted due to interferences.
6. Results are uncorrected for matrix spikes or surrogate recoveries except for PFAS compounds where annotated.
7. SVOC analysis on waters is performed on homogenised, unfiltered samples unless noted otherwise.
8. Samples were analysed on an 'as received' basis.
9. Information identified in this report with **blue** colour indicates data provided by customers that may have an impact on the results.
10. This report replaces any interim results previously issued.

Holding Times

Please refer to the 'Sample Preservation and Container Guide' for holding times (QS3001).

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours before sample receipt deadlines as stated on the SRA.

If the Laboratory did not receive the information in the required timeframe, and despite any other integrity issues, suitably qualified results may still be reported.

Holding times apply from the sampling date; therefore, compliance with these may be outside the laboratory's control.

For VOCs containing vinyl chloride, styrene and 2-chloroethyl vinyl ether, the holding time is seven days; however, for all other VOCs, such as BTEX or C6-10 TRH, the holding time is 14 days.

Units

mg/kg: milligrams per kilogram	**mg/L:** milligrams per litre	**ppm:** parts per million
µg/L: micrograms per litre	**ppb:** parts per billion	**%:** Percentage
org/100 mL: Organisms per 100 millilitres	**NTU:** Nephelometric Turbidity Units	**MPN/100 mL:** Most Probable Number of organisms per 100 millilitres
CFU: Colony Forming Unit	**Colour:** Pt-Co Units (CU)	

Terms

APHA	American Public Health Association
CEC	Cation Exchange Capacity
COC	Chain of Custody
CP	Client Parent - QC was performed on samples pertaining to this report
CRM	Certified Reference Material (ISO17034) - reported as percent recovery.
Dry	Where moisture has been determined on a solid sample, the result is expressed on a dry weight basis.
Duplicate	A second piece of analysis from the same sample and reported in the same units as the result to show comparison.
LOR	Limit of Reporting.
LCS	Laboratory Control Sample - reported as percent recovery.
Method Blank	In the case of solid samples, these are performed on laboratory-certified clean sands and in the case of water samples, these are performed on de-ionised water.
NCP	Non-Client Parent - QC performed on samples not pertaining to this report, QC represents the sequence or batch that client samples were analysed within.
RPD	Relative Percent Difference between two Duplicate pieces of analysis.
SPIKE	Addition of the analyte to the sample and reported as percentage recovery.
SRA	Sample Receipt Advice
Surr - Surrogate	The addition of a similar compound to the analyte target is reported as percentage recovery. See below for acceptance criteria.
TBTO	Tributyltin oxide (*bis*-tributyltin oxide) - individual tributyltin compounds cannot be identified separately in the environment; however, free tributyltin was measured, and its values were converted stoichiometrically into tributyltin oxide for comparison with regulatory limits.
TCLP	Toxicity Characteristic Leaching Procedure
TEQ	Toxic Equivalency Quotient or Total Equivalence
QSM	US Department of Defense Quality Systems Manual Version 6.0
US EPA	United States Environmental Protection Agency
WA DWER	Sum of PFBA, PFPeA, PFHxA, PFHpA, PFOA, PFBS, PFHxS, PFOS, 6:2 FTSA, 8:2 FTSA

QC - Acceptance Criteria

The acceptance criteria should only be used as a guide and may be different when site-specific Sampling Analysis and Quality Plan (SAQP) have been implemented.

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is ≤30%; however, the following acceptance guidelines are equally applicable:

Results <10 times the LOR:	No Limit
Results between 10-20 times the LOR:	RPD must lie between 0-50%
Results >20 times the LOR:	RPD must lie between 0-30%

NOTE: pH duplicates are reported as a range, not as RPD

Surrogate Recoveries: Recoveries must lie between 20-130% for Speciated Phenols & 50-150% for PFAS. SVOCs recoveries 20 – 150%, VOC recoveries 50 – 150%

PFAS field samples containing surrogate recoveries above the QC limit designated in QSM 6.0, where no positive PFAS results have been reported or reviewed, and no data was affected.

QC Data General Comments

1. Where a result is reported as less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.
2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown are not data from your samples.
3. pH and Free Chlorine analysed in the laboratory - Analysis on this test must begin within 30 minutes of sampling. Therefore, laboratory analysis is unlikely to be completed within holding time.Analysis will begin as soon as possible after sample receipt.
4. Recovery Data (Spikes & Surrogates) - where chromatographic interference does not allow the determination of recovery, the term "INT" appears against that analyte.
5. For Matrix Spikes and LCS results, a dash "-" in the report means that the specific analyte was not added to the QC sample.
6. Duplicate RPDs are calculated from raw analytical data; thus, it is possible to have two sets of data.

Quality Control Results

Test	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Method Blank							
Heavy Metals							
Antimony	mg/L	< 0.005			0.005	Pass	
Arsenic	mg/L	< 0.001			0.001	Pass	
Barium	mg/L	< 0.02			0.02	Pass	
Beryllium	mg/L	< 0.001			0.001	Pass	
Boron	mg/L	< 0.05			0.05	Pass	
Cadmium	mg/L	< 0.0002			0.0002	Pass	
Chromium	mg/L	< 0.001			0.001	Pass	
Cobalt	mg/L	< 0.001			0.001	Pass	
Copper	mg/L	< 0.001			0.001	Pass	
Lead	mg/L	< 0.001			0.001	Pass	
Manganese	mg/L	< 0.005			0.005	Pass	
Mercury	mg/L	< 0.0001			0.0001	Pass	
Molybdenum	mg/L	< 0.005			0.005	Pass	
Nickel	mg/L	< 0.001			0.001	Pass	
Selenium	mg/L	< 0.001			0.001	Pass	
Tin	mg/L	< 0.005			0.005	Pass	
Vanadium	mg/L	< 0.005			0.005	Pass	
Zinc	mg/L	< 0.005			0.005	Pass	
LCS - % Recovery							
Heavy Metals							
Antimony	%	106			80-120	Pass	
Arsenic	%	108			80-120	Pass	
Barium	%	110			80-120	Pass	
Beryllium	%	102			80-120	Pass	
Boron	%	105			80-120	Pass	
Cadmium	%	104			80-120	Pass	
Chromium	%	110			80-120	Pass	
Cobalt	%	106			80-120	Pass	
Copper	%	105			80-120	Pass	
Lead	%	102			80-120	Pass	
Manganese	%	110			80-120	Pass	
Mercury	%	91			80-120	Pass	
Molybdenum	%	105			80-120	Pass	
Nickel	%	104			80-120	Pass	
Selenium	%	102			80-120	Pass	
Tin	%	104			80-120	Pass	
Vanadium	%	112			80-120	Pass	
Zinc	%	112			80-120	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Spike - % Recovery									
Heavy Metals				Result 1					
Antimony	M26-Ma0090081	NCP	%	106			75-125	Pass	
Arsenic	M26-Ma0090081	NCP	%	109			75-125	Pass	
Barium	M26-Ma0090081	NCP	%	93			75-125	Pass	
Beryllium	M26-Ma0090081	NCP	%	102			75-125	Pass	
Boron	M26-Ma0090081	NCP	%	87			75-125	Pass	
Cadmium	M26-Ma0090081	NCP	%	102			75-125	Pass	
Chromium	M26-Ma0090081	NCP	%	112			75-125	Pass	
Cobalt	M26-Ma0090081	NCP	%	110			75-125	Pass	

Test	Lab Sample ID	QA Source	Units	Result 1			Acceptance Limits	Pass Limits	Qualifying Code
Copper	M26-Ma0090081	NCP	%	107			75-125	Pass	
Lead	M26-Ma0090081	NCP	%	104			75-125	Pass	
Manganese	M26-Ma0090081	NCP	%	110			75-125	Pass	
Mercury	M26-Ma0090081	NCP	%	104			75-125	Pass	
Molybdenum	M26-Ma0090081	NCP	%	101			75-125	Pass	
Nickel	M26-Ma0090081	NCP	%	106			75-125	Pass	
Selenium	M26-Ma0090081	NCP	%	99			75-125	Pass	
Tin	M26-Ma0090081	NCP	%	104			75-125	Pass	
Vanadium	M26-Ma0090081	NCP	%	116			75-125	Pass	
Zinc	M26-Ma0090081	NCP	%	109			75-125	Pass	
Test	**Lab Sample ID**	**QA Source**	**Units**	**Result 1**			**Acceptance Limits**	**Pass Limits**	**Qualifying Code**
Duplicate									
Heavy Metals				Result 1	Result 2	RPD			
Antimony	M26-Ma0090850	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Barium	M26-Ma0090850	NCP	mg/L	< 0.2	< 0.2	<1	30%	Pass	
Beryllium	M26-Ma0090850	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Boron	M26-Ma0090850	NCP	mg/L	3.3	2.8	16	30%	Pass	
Cadmium	M26-Ma0090850	NCP	mg/L	< 0.002	< 0.002	<1	30%	Pass	
Chromium	M26-Ma0090850	NCP	mg/L	0.04	0.04	1.0	30%	Pass	
Cobalt	M26-Ma0090850	NCP	mg/L	0.04	0.04	3.0	30%	Pass	
Copper	M26-Ma0090850	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Lead	M26-Ma0090850	NCP	mg/L	< 0.01	< 0.01	<1	30%	Pass	
Manganese	M26-Ma0090850	NCP	mg/L	0.50	0.52	4.0	30%	Pass	
Mercury	M26-Ma0090850	NCP	mg/L	< 0.001	< 0.001	<1	30%	Pass	
Molybdenum	M26-Ma0090850	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Nickel	M26-Ma0090850	NCP	mg/L	0.15	0.16	4.0	30%	Pass	
Selenium	M26-Ma0090850	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Tin	M26-Ma0090850	NCP	mg/L	< 0.5	< 0.5	<1	30%	Pass	
Vanadium	M26-Ma0090850	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	
Zinc	M26-Ma0090850	NCP	mg/L	< 0.05	< 0.05	<1	30%	Pass	

Comments

Sample Integrity

Custody Seals Intact (if used)	N/A
Attempt to Chill was evident	Yes
Sample correctly preserved	Yes
Appropriate sample containers have been used	Yes
Sample containers for volatile analysis received with minimal headspace	Yes
Samples received within HoldingTime	N/A
Some samples have been subcontracted	No

Qualifier Codes/Comments

Code	Description
G01	The LORs have been raised due to matrix interference
I12	Where sampling date has not been provided, Eurofins | Environment Testing is not able to determine whether analysis has been performed within recommended holding times.

Authorised by:

Karl Bulow	Analytical Services Manager
Mary Makarios	Senior Analyst-Metal



Glenn Jackson
Managing Director

Final Report – this report replaces any previously issued Report

- Indicates Not Requested

* Indicates NATA accreditation does not cover the performance of this service

Measurement uncertainty of test data is available on request or please click here.

Eurofins shall not be liable for loss, cost, damages or expenses incurred by the client, or any other person or company, resulting from the use of any information or interpretation given in this report. In no case shall Eurofins be liable for consequential damages including, but not limited to, lost profits, damages for failure to meet deadlines and lost production arising from this report. This document shall not be reproduced except in full and relates only to the items tested. Unless indicated otherwise, the tests were performed on the samples as received.