

Certificate of Analysis - E25-00-3512

Client:	Richmond Valley Council	Laboratory:	Environmental Analysis Laboratory
Contact:	Lab Results	Contact:	EAL Customer Service Team
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Customer reference:	RVC Raw & Finished Quarterly	Request ID:	EAL/E25-00-3512
Number of samples:	2	Report ID:	E25-00-3512_EALP1_1
Date samples received:	01 April 2025	Issue date:	23 April 2025

Authorised by:	Matt Pocock
Position:	Technical Team Leader



Comments: EAL is a NATA accredited laboratory (14960), accredited for compliance with ISO/IEC 17025 - Testing.

Certificate of Analysis

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Client Sample ID:				RVC Finished	RVC Raw
Sampled By:				R.G	CC
EAL Sample ID:				E25-00-3512-0001	E25-00-3512-0002
Parameter	Unit	Method Reference	LOR	---	---
pH	---	APHA 4500-H+ B	---	7.09	7.30
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.421	0.162
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	286	110
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	< 1	177
Turbidity	NTU	APHA 2130	<1	< 1	190
True Colour	PtCo	** APHA 2120	<5	5	118
Apparent Colour	PtCo	** APHA 2120	<5	9	1280
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	97	66
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	54	65
Total Coliforms	cfu/100 mL	APHA 9222-B	<1	< 1	252
E.Coli	cfu/100 mL	ColiBlue Membrane Filtration	<1	< 1	5
Total Organic Carbon	mg/L	** APHA 5310-B	<0.1	7.90	8.03
Calcium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	10.9	12.6
Magnesium	mg/L	Dissolved - APHA 3125 ICPMS	<0.5	5.41	6.64
Aluminium	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.020	0.203
Iron	mg/L	Dissolved - APHA 3125 ICPMS	<0.005	0.036	0.582
Manganese	mg/L	Dissolved - APHA 3125 ICPMS	<0.001	< 0.001	0.008
Aluminium	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.012	1.53
Iron	mg/L	Total Available - APHA 3125 ICPMS	<0.005	0.018	3.84
Manganese	mg/L	Total Available - APHA 3125 ICPMS	<0.001	< 0.001	0.236
Dissolved Organic Carbon	mg/L	** APHA 5310-B	<1	2.58	2.32
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.017	0.453
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.193	0.170
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	< 0.005	0.005
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	SE280836	---
Chloroform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	50	---
Bromodichloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	9.2	---
Dibromochloromethane (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	---
Bromoform (THM)	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	<0.5	---
Total THM	µg/L	** Subcontracted SGS Laboratories Australia	<2	60	---
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	---	SE280840
Hexachlorobenzene (HCB)	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Alpha BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Lindane (gamma BHC)	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Heptachlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
Aldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Beta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Delta BHC	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Heptachlor epoxide	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02

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Sampled By:				R.G	CC
EAL Sample ID:				E25-00-3512-0001	E25-00-3512-0002
Parameter	Unit	Method Reference	LOR	---	---
Gamma Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.01
Alpha Chlordane	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
p.p'-DDE	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Dieldrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Endrin	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
Beta Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
p.p'-DDD	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
p.p'-DDT	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Endosulfan sulphate	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
Endrin aldehyde	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
Methoxychlor	µg/L	** Subcontracted SGS Laboratories Australia	<0.1	---	<0.1
Endrin ketone	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Mirex	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Total OC	µg/L	** Subcontracted SGS Laboratories Australia	<1	---	<1
Alpha Endosulfan	µg/L	** Subcontracted SGS Laboratories Australia	<0.02	---	<0.02
SGS Report No.	---	** Subcontracted SGS Laboratories Australia	---	---	SE280840
Azinphos-methyl (Guthion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Bromophos ethyl	µg/L	** Subcontracted SGS Laboratories Australia	---	---	<0.05
Chlorpyrifos (Chlorpyrifos Ethyl)	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Diazinon (Dimpylate)	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Dichlorvos	µg/L	** Subcontracted SGS Laboratories Australia	<0.5	---	<0.5
Dimethoate	µg/L	** Subcontracted SGS Laboratories Australia	<0.15	---	<0.15
Ethion	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Fenitrothion	µg/L	** Subcontracted SGS Laboratories Australia	<0.2	---	<0.2
Malathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Methidathion	µg/L	** Subcontracted SGS Laboratories Australia	<0.05	---	<0.05
Parathion-ethyl (Parathion)	µg/L	** Subcontracted SGS Laboratories Australia	<0.01	---	<0.01
Envirolab Report No.	---	** Subcontracted Envirolab	---	---	PGD0353
Geosmin	ng/L	** Subcontracted Envirolab	---	---	<2.0
2-Methylisoborneol	ng/L	** Subcontracted Envirolab	---	---	<2.0

Notes:

- ** denotes NATA accreditation does not cover the performance of this service.
- .. denotes not requested, no data/information or no guidelines available.

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- All services undertaken by EAL are covered by the EAL Laboratory Services Terms and Conditions (available on request or at scu.edu.au/eal).
- Analysis conducted between sample arrival date and reporting date.
- This report is not to be reproduced except in full.
- Results only relate to the item tested.
- Analysis performed according to APHA. 2017. Standard Methods for the Examination of Water & Wastewater, 23rd Edition. Except where stated otherwise.
- Metals and salts analysed by Inductively Coupled Plasma - Mass Spectrometry (ICP-MS).
- 1:3 Nitric/HCl digest analysed in accordance with APHA 3125 ICPMS.
- For conductivity $1 \text{ dS/m} = 1 \text{ mS/cm} = 1000 \text{ }\mu\text{S/cm}$.
- $\text{mg/L} = \text{ppm}$