

Water - Certificate of Analysis - E25-00-8632

Client:	Clarrich Farms Pty Ltd	Laboratory:	Environmental Analysis Laboratory
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Customer reference:	C- Tabulam	Request ID:	EAL /E25-00-8632
Number of samples:	4	Report ID:	E25-00-8632_EALP3_1
Date samples received:	07 August 2025	Issue date:	11 September 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.

Received on 06/08/2025

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Client Sample ID:				P3-CR Upstream	P4-CR Downstream	P5-Effluent D	P7-Lagoon
Sample Date:				6 August 2025	6 August 2025	6 August 2025	6 August 2025
Sampled By:				CT	CT	CT	CT
EAL Sample ID:				E25-00-8632-0001	E25-00-8632-0002	E25-00-8632-0003	E25-00-8632-0004
Parameter	Unit	Method Reference	LOR	---	---	---	---
pH	---	APHA 4500-H+ B	---	7.03	7.02	7.78	7.46
Electrical Conductivity	dS/m	APHA 2510-B	<0.01	0.162	0.163	8.19	0.696
Total Dissolved Salts (Calculation EC x 680)	mg/L	APHA 2510-B	<7	110	111	5572	473
Total Alkalinity	mg CaCO ₃ /L	** APHA 2320	<1	41	41	3867	50
Water Hardness	mg/L CaCO ₃ equivalent	** Calculation using Ca and Mg	<1	42	41	338	54
Sodium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	16.6	16.7	180	115
Potassium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	1.78	1.77	480	4.76
Calcium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	8.89	8.59	86.0	6.37
Magnesium	mg/L	Total Available - APHA 3125 ICPMS	<0.5	4.75	4.79	30.0	9.34
Chloride	mg/L	Total Available - APHA 3125 ICPMS	<10	19.6	22.4	373	157
Sulfate	mg/L SO ₄	Total Available - APHA 3125 ICPMS	<9	< 9	< 9	81.2	< 9
Chloride/Sulfate Ratio	---	Total Available - APHA 3125 ICPMS	---	n.a.	n.a.	4.6	n.a.
Sodium Absorption Ratio	---	** Calculation	---	1.1	1.1	4.2	6.8
Total Phosphorus	mg/L P	Inhouse W4	<0.01	0.058	0.080	53.5	0.499
Total Nitrogen	mg/L N	Inhouse W4	<0.01	0.612	0.545	898	1.46
Phosphate	mg/L P	APHA 4500 P-G	<0.005	< 0.05	< 0.05	39.5	0.117
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.005	0.201	0.197	---	0.138
Nitrate	mg/L N	APHA 4500 NO ₃ -F	<0.05	---	---	< 0.05	---
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.005	---	---	0.064	---
Nitrite	mg/L N	APHA 4500 NO ₂ -I	<0.05	< 0.05	< 0.05	---	0.009
Ammonia	mg/L N	APHA 4500 NH ₃ -H	<0.005	< 0.05	0.050	874	0.194
Total Oils and Grease	mg/L	APHA 5520-D (hexane extractable)	<2	< 2	< 2	5.73	< 2
Biochemical Oxygen Demand (BOD ₅)	mg/L O ₂	APHA 5210-B	<1	< 1	< 1	511	2.55
Faecal Coliforms	cfu/100 mL	APHA 9222-D	<1	100	930	450000	1700
Total Suspended Solids	mg/L	GFC equiv. filter - APHA 2540-D	<1	---	---	420	---
Total Dissolved Solids	mg/L	** APHA 2540C - Evaporation of filtrate	<1	---	---	655	---

Notes:

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

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- mg/L = ppm
- For conductivity 1 dS/m = 1 mS/cm = 1000 μ S/cm.