

Cootamundra Gundagai Regional Council

Tuesday, July 11, 2023

PO Box 420

Cootamundra NSW 2590

Attention: Andrew Brock



NATA Accredited Laboratory  
Number: 9597

Accredited for compliance with  
ISO/IEC 17025 - Testing

## LABORATORY ANALYSIS REPORT

Report Number: 2306-0063

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<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		22-June-2023

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Water	J. Turner	22-June-2023

<u>EAL ID</u>	<u>Client ID.</u> Date/Time sample taken	<u>Test</u>	<u>Result (units)</u>	<u>Method Reference</u>	<u>Limit of Reporting</u>
23Jun-0157	P1 20.06.23 2.25pm	Ammonia as N	0.8 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	112 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	2 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1920 µS/cm	APHA 2510 B	1
		Magnesium (acid extractable)	72.1 mg/L	APHA 3030 E/3120 B	2
		Nitrate as N	0.8 mg/L	LTM-W-022	0.1
		Oil & Grease	2 mg/L	APHA 5520 D	1
		Ortho-Phosphate as P	0.21 mg/L	LTM-W-030	0.01
		Phosphorus, Total	0.21 mg/L	LTM-W-030	0.01
		pH	6.9 pH units	APHA 4500-H+ B	
		Potassium (acid extractable)	9.0 mg/L	APHA 3030 E/3120 B	2
		Sodium (acid extractable)	152 mg/L	APHA 3030 E/3120 B	2
		Total Kjeldahl Nitrogen	2 mg/L	LTM-W-034	2
		Total Suspended Solids	5 mg/L	APHA 2540 D	2

23Jun-0158	P12 20.06.23 2.30pm	Ammonia as N	0.8 mg/L	LTM-W-042	0.1
		Biochemical Oxygen Demand	<2 mg/L	APHA 5210 B/4500-O G	2
		Calcium (acid extractable)	105 mg/L	APHA 3030 E/3120 B	2
		Faecal coliforms	<1 cfu/100mL	* AS/NZS 4276.7:2007	
		Conductivity	1910 µS/cm	APHA 2510 B	1

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23Jun-0158	<b>P12</b> 20.06.23 2.30pm	<b>Magnesium (acid extractable)</b>	<b>71.8</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.7</b> mg/L	LTM-W-022	0.1
		<b>Oil &amp; Grease</b>	<b>&lt;1</b> mg/L	APHA 5520 D	1
		<b>Ortho-Phosphate as P</b>	<b>0.21</b> mg/L	LTM-W-030	0.01
		<b>Phosphorus, Total</b>	<b>0.23</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.1</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>9.6</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium (acid extractable)</b>	<b>157</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Kjeldahl Nitrogen</b>	<b>2</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>7</b> mg/L	APHA 2540 D	2
23Jun-0159	<b>Aeration Lagoon</b> 20.06.23 2.10pm	<b>Ammonia as N</b>	<b>11</b> mg/L	LTM-W-042	0.5
		<b>Biochemical Oxygen Demand</b>	<b>50</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>125</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>235</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>3200</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>2120</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>74.4</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.9</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>15</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>0.9</b> mg/L	APHA 4110 B	0.1

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23Jun-0159	<b>Aeration Lagoon</b> 20.06.23 2.10pm	<b>Phosphorus, Total</b>	<b>0.87</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.1</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>9.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>3</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>164</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1230</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>14</b> mg/L	LTM-W-034	2
		<b>Total Organic Nitrogen</b>	<b>3</b> mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		<b>Total Suspended Solids</b>	<b>25</b> mg/L	APHA 2540 D	2
23Jun-0160	<b>Clarifier</b> 20.06.23 2.15pm	<b>Ammonia as N</b>	<b>10</b> mg/L	LTM-W-042	0.5
		<b>Biochemical Oxygen Demand</b>	<b>48</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>127</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>236</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>3100</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>2150</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>74.9</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.6</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>15</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>0.6</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.80</b> mg/L	LTM-W-030	0.01

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23Jun-0160	<b>Clarifier</b> 20.06.23 2.15pm	<b>pH</b>	<b>7.5</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>9.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium Adsorption Ratio</b>	<b>3</b> Ratio	LTM-W-039	
		<b>Sodium (acid extractable)</b>	<b>161</b> mg/L	APHA 3030 E/3120 B	2
		<b>Total Dissolved Solids</b>	<b>1310</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>14</b> mg/L	LTM-W-034	2
		<b>Total Organic Nitrogen</b>	<b>4</b> mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		<b>Total Suspended Solids</b>	<b>17</b> mg/L	APHA 2540 D	2
23Jun-0161	<b>Maturation Pond</b> 20.06.23 2.20pm	<b>Ammonia as N</b>	<b>2.2</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>&lt;2</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>127</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>231</b> mg/L	APHA 4110 B	0.1
		<b>Faecal coliforms</b>	<b>26</b> cfu/100mL	* AS/NZS 4276.7:2007	
		<b>Conductivity</b>	<b>2040</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>75.0</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>2.1</b> mg/L	LTM-W-022	0.1
		<b>Nitrogen, total</b>	<b>6</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>2.1</b> mg/L	APHA 4110 B	0.1
		<b>Phosphorus, Total</b>	<b>0.32</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.6</b> pH units	APHA 4500-H+ B	

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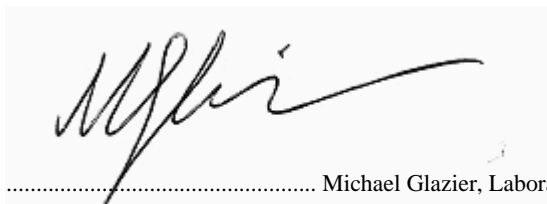
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23Jun-0161	Maturation Pond 20.06.23 2.20pm	Potassium (acid extractable)	9.0 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	3 Ratio	LTM-W-039	
		Sodium (acid extractable)	159 mg/L	APHA 3030 E/3120 B	2
		Total Dissolved Solids	1260 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	4 mg/L	LTM-W-034	2
		Total Organic Nitrogen	2 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	3 mg/L	APHA 2540 D	2

**Note:**

\* NATA Accreditation does not cover the performance of this service.



Signed ..... Michael Glazier, Laboratory Manager.

All samples analysed as received.  
All soil results are reported on a dry basis.  
The EAL takes no responsibility for the end use of results within this report.  
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