

**Cootamundra Gundagai Regional Council**

Friday, March 15, 2024

**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: 2402-0050**

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*For all enquiries related to this report please quote document number: 2402-0050*

<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		16-February-2024
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Effluent	J. Turner	16-February-2024

<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>
24Feb-0110	<b>P1 - Outlet to Creek</b> 13.02.24 1.45pm	<b>Ammonia as N</b>	<b>0.2</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>43.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Thermotolerant Faecal Coliforms</b>	<b>26</b> CFU/100mL	* AS/NZS 4276.5:2019	1
		<b>Conductivity</b>	<b>1640</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>63.3</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.3</b> mg/L	LTM-W-014	0.1
		<b>Oil &amp; Grease</b>	<b>2</b> mg/L	APHA 5520 D	1
		<b>Ortho-Phosphate as P</b>	<b>0.07</b> mg/L	LTM-W-030	0.01
		<b>Phosphorus, Total</b>	<b>0.15</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>6.2</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>9.9</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium (acid extractable)</b>	<b>169</b> mg/L	APHA 3030 E/3120 B	10
		<b>Total Kjeldahl Nitrogen</b>	<b>3</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>27</b> mg/L	APHA 2540 D	2
24Feb-0111	<b>P12 - Pump Shed</b> 13.02.24 1.36pm	<b>Ammonia as N</b>	<b>0.1</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>2</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>39.4</b> mg/L	APHA 3030 E/3120 B	2
		<b>Thermotolerant Faecal Coliforms</b>	<b>38</b> CFU/100mL	* AS/NZS 4276.5:2019	1
		<b>Conductivity</b>	<b>1630</b> µS/cm	APHA 2510 B	1

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Effluent	J. Turner	16-February-2024

<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>
24Feb-0111	<b>P12 - Pump Shed</b> 13.02.24 1.36pm	<b>Magnesium (acid extractable)</b>	<b>63.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.3</b> mg/L	LTM-W-014	0.1
		<b>Oil &amp; Grease</b>	<b>&lt;1</b> mg/L	APHA 5520 D	1
		<b>Ortho-Phosphate as P</b>	<b>0.06</b> mg/L	LTM-W-030	0.01
		<b>Phosphorus, Total</b>	<b>0.16</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>6.3</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>10.3</b> mg/L	APHA 3030 E/3120 B	2
		<b>Sodium (acid extractable)</b>	<b>171</b> mg/L	APHA 3030 E/3120 B	10
		<b>Total Kjeldahl Nitrogen</b>	<b>3</b> mg/L	LTM-W-034	2
		<b>Total Suspended Solids</b>	<b>18</b> mg/L	APHA 2540 D	2
24Feb-0112	<b>Aeration Lagoon</b> 13.02.24 1.21pm	<b>Ammonia as N</b>	<b>14</b> mg/L	LTM-W-042	0.5
		<b>Biochemical Oxygen Demand</b>	<b>46</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>99.2</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>199</b> mg/L	* APHA 4500-Cl E	0.1
		<b>Thermotolerant Faecal Coliforms</b>	<b>411000</b> CFU/100mL	* AS/NZS 4276.5:2019	1
		<b>Conductivity</b>	<b>1980</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>62.5</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.4</b> mg/L	LTM-W-014	0.1
		<b>Nitrogen, total</b>	<b>22</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>4.8</b> mg/L	LTM-W-014	0.1

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<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		16-February-2024

<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Effluent	J. Turner	16-February-2024

<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>
24Feb-0112	<b>Aeration Lagoon</b> 13.02.24 1.21pm	<b>Phosphorus, Total</b>	<b>0.95</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.2</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>10.1</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>176</b> mg/L	APHA 3030 E/3120 B	10
		<b>Total Dissolved Solids</b>	<b>1270</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>17</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>30</b> mg/L	APHA 2540 D	2
24Feb-0113	<b>Clarifier</b> 13.02.24 1.25pm	<b>Ammonia as N</b>	<b>14</b> mg/L	LTM-W-042	0.5
		<b>Biochemical Oxygen Demand</b>	<b>36</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>97.1</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>193</b> mg/L	* APHA 4500-Cl E	0.1
		<b>Thermotolerant Faecal Coliforms</b>	<b>50000</b> CFU/100mL	* AS/NZS 4276.5:2019	1
		<b>Conductivity</b>	<b>1940</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>60.7</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>0.3</b> mg/L	LTM-W-014	0.1
		<b>Nitrogen, total</b>	<b>21</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>3.8</b> mg/L	LTM-W-014	0.1
		<b>Phosphorus, Total</b>	<b>0.27</b> mg/L	LTM-W-030	0.01

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## LABORATORY ANALYSIS REPORT

**Report Number:2402-0050**

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<u>Facility:</u>	<u>Order #</u>	<u>Date Analysis Commenced</u>
		16-February-2024
<u>Sample Type</u>	<u>Collected By</u>	<u>Date Received</u>
Effluent	J. Turner	16-February-2024

<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>
24Feb-0113	<b>Clarifier</b> 13.02.24 1.25pm	<b>pH</b>	<b>7.4</b> pH units	APHA 4500-H+ B	
		<b>Potassium (acid extractable)</b>	<b>10.2</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>171</b> mg/L	APHA 3030 E/3120 B	10
		<b>Total Dissolved Solids</b>	<b>1240</b> mg/L	LTM-W-035	2
		<b>Total Kjeldahl Nitrogen</b>	<b>17</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>11</b> mg/L	APHA 2540 D	2
24Feb-0114	<b>Maturation Pond</b> 13.02.24 1.30pm	<b>Ammonia as N</b>	<b>4.2</b> mg/L	LTM-W-042	0.1
		<b>Biochemical Oxygen Demand</b>	<b>11</b> mg/L	APHA 5210 B/4500-O G	2
		<b>Calcium (acid extractable)</b>	<b>72.8</b> mg/L	APHA 3030 E/3120 B	2
		<b>Chloride</b>	<b>200</b> mg/L	* APHA 4500-CI E	0.1
		<b>Thermotolerant Faecal Coliforms</b>	<b>340</b> CFU/100mL	* AS/NZS 4276.5:2019	1
		<b>Conductivity</b>	<b>1760</b> µS/cm	APHA 2510 B	1
		<b>Magnesium (acid extractable)</b>	<b>61.9</b> mg/L	APHA 3030 E/3120 B	2
		<b>Nitrate as N</b>	<b>1.1</b> mg/L	LTM-W-014	0.1
		<b>Nitrogen, total</b>	<b>8</b> mg/L	* APHA 4500-Norg B + 4110 B	2
		<b>Nitrate/Nitrite as N</b>	<b>1.9</b> mg/L	LTM-W-014	0.1
		<b>Phosphorus, Total</b>	<b>0.12</b> mg/L	LTM-W-030	0.01
		<b>pH</b>	<b>7.5</b> pH units	APHA 4500-H+ B	



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Effluent	J. Turner	16-February-2024

  

<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>
24Feb-0114	Maturation Pond 13.02.24 1.30pm	Potassium (acid extractable)	10.0 mg/L	APHA 3030 E/3120 B	2
		Sodium Adsorption Ratio	4 Ratio	LTM-W-039	
		Sodium (acid extractable)	170 mg/L	APHA 3030 E/3120 B	10
		Total Dissolved Solids	1130 mg/L	LTM-W-035	2
		Total Kjeldahl Nitrogen	6 mg/L	LTM-W-034	2
		Total Organic Nitrogen	<2 mg/L	* APHA 4500 Norg B - APHA 4500-NH3 G	2
		Total Suspended Solids	<2 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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