



The Hay Sewerage Treatment Plant EPA Licence (3520) requires Council to monitor concentration of pollutants discharged at 7 monitoring locations around the Treatment Plant. The frequency of the testing is yearly with the following test results sampled on 12 August 2014 and the results forwarded to Council on 29 August 2014. The full EPA licence can be viewed on the EPA website.

Please find attached Laboratory Analysis Report 1408-0055 from Charles Sturt University.

Hay Shire Council

PO Box 141

Hay NSW 2711

Attention:

Friday, August 29, 2014



NATA Accredited Laboratory
Number: 9597

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LABORATORY ANALYSIS REPORT

Report Number:1408-0055

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<u>Facility:</u>	<u>Order #</u>	<u>Date Received</u>
<u>Sample Type</u>	<u>Collected By</u>	
Water	Clint Taylor	14-August-2014

<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>
14Aug-0262	Piezo No. 6 12.08.14 3.05pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	4270 mg/L	APHA 4110 B	5
		Chemical Oxygen Demand	63 mg/L	APHA 5220 D	10
		Conductivity	14600 µS/cm	APHA 2510 B	1
		Nitrate as N	2 mg/L	APHA 4110 B	1
		Nitrogen, total	6 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	2 mg/L	APHA 4110 B	1
		Ortho-Phosphate as P	1.81 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	2.21 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	7.0 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	4 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	3 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Total Suspended Solids	4650 mg/L	APHA 2540 D	2
14Aug-0263	Piezo No. 10 12.08.14 2.25pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	1140 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	24 mg/L	APHA 5220 D	10
		Conductivity	4790 µS/cm	APHA 2510 B	1
		Nitrate as N	22 mg/L	APHA 4110 B	1
		Nitrogen, total	22 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	22 mg/L	APHA 4110 B	1

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Water	Clint Taylor	14-August-2014

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14Aug-0263	Piezo No. 10 12.08.14 2.25pm	Ortho-Phosphate as P	0.22 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	0.26 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.2 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	2 mg/L	Analysis by Ecovise, Melbourne (acc no: 992)	
		Total Suspended Solids	204 mg/L	APHA 2540 D	2
14Aug-0264	Piezo No. 12 12.08.14 2.20pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	311 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	43 mg/L	APHA 5220 D	10
		Conductivity	1930 µS/cm	APHA 2510 B	1
		Nitrate as N	<1 mg/L	APHA 4110 B	1
		Nitrogen, total	<2 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	<1 mg/L	APHA 4110 B	1
		Ortho-Phosphate as P	0.30 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	0.32 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.2 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	5 mg/L	Analysis by Ecovise, Melbourne (acc no: 992)	
		Total Suspended Solids	18 mg/L	APHA 2540 D	2

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Water	Clint Taylor	14-August-2014

<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>
14Aug-0265	Piezo No. 14 12.08.14 2.10pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	2830 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	48 mg/L	APHA 5220 D	10
		Conductivity	10700 µS/cm	APHA 2510 B	1
		Nitrate as N	1 mg/L	APHA 4110 B	1
		Nitrogen, total	3 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	1 mg/L	APHA 4110 B	1
		Ortho-Phosphate as P	0.08 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	0.15 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.0 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	2 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	3 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Total Suspended Solids	138 mg/L	APHA 2540 D	2
14Aug-0266	Piezo No. 15 12.08.14 1.46pm	Ammonia as N	3.1 mg/L	APHA 4500-NH3 F	0.2
		Chloride	3000 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	57 mg/L	APHA 5220 D	10
		Conductivity	10600 µS/cm	APHA 2510 B	1
		Nitrate as N	<1 mg/L	APHA 4110 B	1
		Nitrogen, total	5 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	<1 mg/L	APHA 4110 B	1

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Water	Clint Taylor	14-August-2014

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14Aug-0266	Piezo No. 15 12.08.14 1.46pm	Ortho-Phosphate as P	1.42 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	1.74 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	7.5 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	5 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	4 mg/L	Analysis by Ecovise, Melbourne (acc no: 992)	
		Total Suspended Solids	156 mg/L	APHA 2540 D	2
14Aug-0267	Piezo No. 16 12.08.14 2.05pm	Ammonia as N	0.3 mg/L	APHA 4500-NH3 F	0.2
		Chloride	275 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	70 mg/L	APHA 5220 D	10
		Conductivity	1820 µS/cm	APHA 2510 B	1
		Nitrate as N	<1 mg/L	APHA 4110 B	1
		Nitrogen, total	4 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	<1 mg/L	APHA 4110 B	1
		Ortho-Phosphate as P	1.40 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	1.54 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.0 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	4 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	9 mg/L	Analysis by Ecovise, Melbourne (acc no: 992)	
		Total Suspended Solids	162 mg/L	APHA 2540 D	2

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Water	Clint Taylor	14-August-2014

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14Aug-0268	Piezo No. 17 12.08.14 2.50pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	889 mg/L	APHA 4110 B	1
		Chemical Oxygen Demand	25 mg/L	APHA 5220 D	10
		Conductivity	4770 µS/cm	APHA 2510 B	1
		Nitrate as N	2 mg/L	APHA 4110 B	1
		Nitrogen, total	2 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	2 mg/L	APHA 4110 B	1
		Ortho-Phosphate as P	1.31 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	1.32 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.4 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	4 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Total Suspended Solids	80 mg/L	APHA 2540 D	2
14Aug-0269	Piezo No. 18 12.08.14 1.50pm	Ammonia as N	<0.2 mg/L	APHA 4500-NH3 F	0.2
		Chloride	7930 mg/L	APHA 4110 B	5
		Chemical Oxygen Demand	111 mg/L	APHA 5220 D	10
		Conductivity	25000 µS/cm	APHA 2510 B	1
		Nitrate as N	6 mg/L	APHA 4110 B	1
		Nitrogen, total	6 mg/L	APHA 4500-Norg B + 4110 B	2
		Nitrate/Nitrite as N	6 mg/L	APHA 4110 B	1

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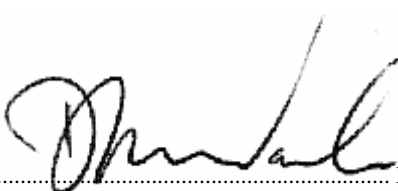
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14Aug-0269	Piezo No. 18 12.08.14 1.50pm	Ortho-Phosphate as P	0.16 mg/L	APHA 4500-P E	0.01
		Phosphorus, Total	0.20 mg/L	APHA 4500-P B5/4500-P E	0.01
		pH	8.0 pH units	APHA 4500-H+ B	
		Total Kjeldahl Nitrogen	<2 mg/L	APHA 4500-Norg B	2
		Total Organic Carbon	3 mg/L	Analysis by Ecowise, Melbourne (acc no: 992)	
		Total Suspended Solids	92 mg/L	APHA 2540 D	2

Note:

*NATA accreditation not held for tests marked with **

Signed  David Wade, 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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