

Lord Howe Island Waste management Facility
 EPA Licence No. 10466
 Licence Anniversary 08-Jun
 Licensee Lord Howe Island Board
 Licensee address PO Box 5 Lord Howe Island NSW 2898



Pollutant	Units	EPA licence limits	Results
BOD (mg/l)	mg/L	90% concentration limit <20 and 100% <30	all between <2 to 9
Faecal Coliforms	cfu/100mL	100% concentration limit <30	all between <1 to -8
pH	pH	100% within 6.5 to 8.5	all between 6.5 to 8.08
Daily discharge (max)	kL/day	3	max daily discharge 1.98

NATA Laboratory Results (except where otherwise indicated) - for EPA Reporting

Discharge Point 2 - AWTS Results Monthly (CI & FC - fortnight)	Pollutant	Units	Jun-19		Jul-19		Aug-19		Sep-19		Oct-19		Nov-19		Dec-19		Jan-20		Feb-20	Mar-20		Apr-20			May-20		
			11-Jun	26-Jun	09-Jul	22-Jul	12-Aug	20-Aug	10-Sep	30-Sep	14-Oct	28-Oct	11-Nov	25-Nov	09-Dec	23-Dec	08-Jan	29-Jan	20-Feb	12-Mar	31-Mar	14-Apr	21-Apr	28-Apr	05-May	12-May	19-May
Ammonia	mg/L	32.5		25.3		97.8		43.3		2		0.5		67.3		98.4		116		83		70.4	74.5	74.4	25.0	54.3	
BOD	mg/L	9		<2		<2		2		<2		<2		<2		<2		<2		<2		<2	2.16	1.79	4.8	1.66	
Chlorine (free residual)	mg/L	0.02	0.82	0.31	0.84	3.72	2.02	0.55	1.25	4.75	0.05	5.1	8	<1	<1	2.50	2.5	0.81	2.5	<1	4.45	2.5	2.16	1.79	4.8	1.66	
Faecal coliforms	cfu/100mL	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	<1	1	<1	<1	<1	<1	1.31	1.31	<2	<2	<2	<2	<1
Nitrate	mg/L	3.4		0.85		2.33		2.66		14.4		9.39		0.67		1.31		1.31		1.31		0.16	0.72	1.01	0.92	0.94	
Nitrogen (total)	mg/L	39.0		30.1		103		49.2		18.8		82.4		104		113		105		105		81.3	104	29.9	71.8		
pH	pH	7.44	6.5	7.39	7.1	7.67	7.9	7.95	6.8	7.76	6.8	7.25	7.4	7.49	6.8	7.8	8.05	7.1	7.3	8.06	7.3	8.06	7.96	8.01	7.64	8.08	6.9
Phosphorus (total)	mg/L	13.9		14.1		17.5		10.8		5.46		13.3		12.4		9.89		13.80		13.80		12.6	12.0	11.7	8.22	12.8	
Total Dissolved Solids	mg/L	748		1200		808		1050		802		1060		1940		1950		1840		1840		1570	1450	1080	923	1230	

Discharge Point 3 - Groundwater Well Results - Quarterly			Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20		
Pollutant	Units	ANZECC			26-Aug			05-Nov	16-Dec					21-Apr	05-May	19-May
Ammonia	mg/L				0.09			0.11	<0.10					<0.01	<0.01	0.1
BOD	mg/L				<2				<2					<2	2	3
Faecal coliforms	cfu/100mL				<1				<1					<1	<1	<1
Nitrate	mg/L				0.03			0.01						<0.01	<0.01	<0.01
Nitrogen (total)	mg/L	0.12			<0.05			0.4	0.9					1.1	1.1	
pH	pH				7.89			7.79						7.98	7.53	7.89
Phosphorus (total)	mg/L	0.025			0.11			0.2	0.12					0.16	0.14	0.13
Total Dissolved Solids	mg/L				19300			18600						20400	20900	20500
Electrical Conductivity	µS/cm				27200			23500						30600	30600	30000
Turbidity	NTU	0.5			11.2			7.4						8.2	11.5	8.5
Sodium Absorption Ratio					32			36.6						39.4	39.9	40.7
Chlorine (free residual)	mg/L				<0.02			<0.02						<0.02	<0.02	<0.02

Discharge Point 4 - Groundwater Well Results - Quarterly			Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20		
Pollutant	Units	ANZECC			26-Aug			05-Nov	16-Dec					21-Apr	05-May	19-May
Ammonia	mg/L				<0.01			<0.01	<0.10					0.03	<0.01	<0.01
BOD	mg/L				<2				<2					<2	<2	4
Faecal coliforms	cfu/100mL				<1				<1					<1	<1	<1
Nitrate	mg/L				2.47				6.49					2.66	3.26	2.28
Nitrogen (total)	mg/L	0.12			2.9			7.2	7.2					4.4	2.8	
pH	pH				8.0			7.97						7.86	7.63	7.88
Phosphorus (total)	mg/L	0.025			0.08			0.06	0.02					<0.05	0.09	0.05
Total Dissolved Solids	mg/L				12000			5420						13700	16000	11300
Electrical Conductivity	µS/cm				18400			8500						21200	23600	17600
Turbidity	NTU	0.5			1.2			0.6						1.1	1.6	1.3
Sodium Absorption Ratio					26.3			17.1						29.7	32.4	27.2
Chlorine (free residual)	mg/L				<0.02			<0.02						<0.02	<0.02	<0.02

Discharge Point 1	Jun-19		Jul-19		Aug-19		Sep-19		Oct-19		Nov-19		Dec-19		Jan-20		Feb-20		Mar-20		Apr-20		May-20	
	11-Jun	24-Jun	18-Jul	29-Jul	12-Aug	26-Aug	10-Sep	23-Sep	14-Oct	28-Oct	11-Nov	25-Nov	09-Dec	24-Dec	08-Jan	21-Jan	10-Feb	25-Feb	10-Mar	23-Mar	14-Apr	28-Apr	11-May	25-May
Water Meter Reading	574.3180	591.2100	620.5220	634.5270	646.2890	660.8320	666.5100	677.2290	692.9430	705.0770	721.8520	739.2890	753.6510	763.2040	771.5820	797.2730	804.6450	826.2810	843.7370	855.1440	873.8530	889.8010	903.2230	912.1380
Treated effluent (l)	10,720,000	16,892,00	29,312,00	14,005,00	11,762,00	14,543,00	5,678,00	10,719,00	15,714,00	12,134,00	16,775,00	17,437,00	14,362,00	9,553,00	8,378,00	25,691,00	7,372,00	21,636,00	17,456,00	11,407,00	18,709,00	15,948,00	13,422,00	8,915,00
Ave Litres per day	714.67	1,299.38	1,221.33	1,273.18	840.14	1,038.79	378.53	824.54	748.29	866.71	1,198.21	1,245.50	1,025.86	636.87	558.53	1,976.23	368.60	1,442.40	1,246.86	877.46	850.41	1,139.14	1,032.46	636.79
Rainfall in period (mm)	17	116	23	21	69	27	79	16.5	82	12	103	38	32	4.5	1.5	69.5	67.5	73	66	45	87	4.5	65.5	85