

Notice

Environmental Protection Act 1994

Notice of decision - Temporary emissions licence

This statutory notice is issued by the administering authority pursuant to section 357E and 357F of the Environmental Protection Act 1994, to advise you of a decision or action.

To: Gladstone Regional Council
PO Box 29 GLADSTONE QLD 4680

Email: chris.irving@gladstone.qld.gov.au
Attention: Chris Irving

Your reference: ZENDESK1238, EPPR00959913
Our reference: ENEL07558918

Application for temporary emissions licence (TEL) for releasing effluent from the following Wastewater Treatment Plants and Water Treatment Plant:

- Gladstone Waste Water Treatment Plant, Hanson Road GLADSTONE - Lot 77 CTN2052
- South Trees Waste Water Treatment Plant, Wapentake Road SOUTH TREES - Lot 1 RP616302
- Yarwun Waste Water Treatment Plant, 87 Reid Road YARWUN - Lot 139 CTN2130
- Boyne Island Waste Water Treatment Plant, Handley Drive BOYNE ISLAND - Lot 25 RP860085
- Tannum Sands Waste Water Treatment Plant, 360 Tannum Sands Road TANNAM SANDS - Lot 1 SP142970 & Lot 21 SP252843 & Lot 35 CTN1238, Lot 1 SP252843
- Calliope Waste Water Treatment Plant, 42 Stowe Road CALLIOPE - Lot 1 RP612345
- Agnes Water Waste Water Treatment Plant, Streeter Drive AGNES WATER - Lot 20 FD991 & Lot 21 SP168519
- Agnes Water Desalination Plant, Springs Road AGNES WATER - Lot 6 Plan SP150900, Lot 40 Plan SP206868 Lot 52 Plan SP155903 & Lot 41 Plan SP206868

Thank you for your application for a temporary emissions licence. Your application, which was received by this office on 14 December 2018, has been granted on different terms than has been requested in the application, as per s357E(1)(a)(ii) of the *Environmental Protection Act 1994*.

This temporary emissions licence (TEL) commences on 15 December 2018 and ends on 19 December 2018 or earlier as stated in the conditions of this temporary emissions license.

The licence overrides specific conditions of your environmental authority, approval number EPPR00959913, as specified.

Decision notice regarding a temporary emissions licence

The following conditions apply to the TEL:

General conditions

TEL1	The holder of this temporary emissions licence must report any exceedance of release limits specified within this temporary emissions licence to the Department of Environment and Science within 24 hours of becoming aware of the exceedance.
TEL2	The holder of this temporary emissions licence must take all reasonable and practicable measures to prevent releases of contaminants to the environment.
TEL3	The holder of this temporary emissions licence must take all reasonable and practicable measures to minimise the environmental impact of releases made under this temporary emissions licence on environmental values.
TEL4	Within one month following the cessation of this temporary emissions licence, the holder of this temporary emissions licence must undertake an assessment of the impact of all releases made under this temporary emissions licence on the receiving environments, and provide this assessment to the Department of Environment and Science. Should this assessment find that any adverse impacts have occurred as a result of the releases, the holder of this temporary emissions licence must undertake all reasonable and practicable measures to remedy the impacts.
TEL5	The holder of this temporary emissions licence must keep all records, including monitoring data and assessments, for a period of not less than 5 years, and provide these records to the Department of Environment and Science (and its successors) upon request.
TEL6	This temporary emissions license ends on 19 th December 2018, or when the effects of rainfall from Tropical Cyclone Owen or the remains of the weather system cease to impact the activities affected by this temporary emissions license, whichever is sooner.

Gladstone STP

The TEL permits the release of effluent from the Gladstone STP to waters from discharge point W1.

The TEL overrides the following conditions of the environmental authority:

WT1-GL	Monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 1 - Release Limits. All determinations of the quality of contaminants released must be: (a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (b) carried out on samples that are representative of the discharge.																										
	Table 1 - Release Limits <table border="1"> <thead> <tr> <th colspan="3"></th><th colspan="4">Release Limit</th></tr> <tr> <th>Monitoring Point</th><th>Discharge Location</th><th>Quality Characteristics</th><th>Minimum</th><th>80th Percentile</th><th>Maximum</th><th>Monitoring Frequency</th></tr> </thead> <tbody> <tr> <td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>									Release Limit				Monitoring Point	Discharge Location	Quality Characteristics	Minimum	80 th Percentile	Maximum	Monitoring Frequency							
			Release Limit																								
Monitoring Point	Discharge Location	Quality Characteristics	Minimum	80 th Percentile	Maximum	Monitoring Frequency																					

Notice

Decision notice regarding a temporary emissions licence

W1	Calliope River	Suspended Solids mg/L	-	30	-	Monthly
W1	Calliope River	5day Biological Oxygen Demand mg/L	-	20	-	Monthly
W1	Calliope River	pH	6.5	-	8.5	Monthly
W1	Calliope River	Total Phosphorus (as P) mg/L	-	-	-	Monthly
W1	Calliope River	Ammonia Nitrogen (mg/L)	-	-	-	Monthly
W1	Calliope River	Nitrogen as N (Nitrite + Nitrate) (mg/L)	-	-	-	Monthly
W1	Calliope River	Dissolved Oxygen mg/L	2	-	-	Monthly

The following conditions apply to the TEL:

TEL7	Where inflows into the sewage treatment plant do not exceed the treatment capacity of the plant, monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 1 - Release Limits – Inflows within STP capacity. All determinations of the quality of contaminants released must be: (a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (b) carried out on samples that are representative of the discharge.																																				
TEL8	Table 1 - Release Limits – Inflows within STP capacity <table> <tr> <th rowspan="2">Monitoring Point</th><th rowspan="2">Discharge Location</th><th rowspan="2">Quality Characteristics</th><th colspan="3">Release Limit</th><th rowspan="2">Monitoring Frequency</th></tr> <tr> <th>Minimum</th><th>80th Percentile</th><th>Maximum</th></tr> <tr> <td>W1</td><td>Calliope River</td><td>Suspended Solids mg/L</td><td>-</td><td>30</td><td>-</td><td>Monthly</td></tr> <tr> <td>W1</td><td>Calliope River</td><td>5day Biological Oxygen Demand mg/L</td><td>-</td><td>20</td><td>-</td><td>Monthly</td></tr> <tr> <td>W1</td><td>Calliope River</td><td>pH</td><td>6.5</td><td>-</td><td>8.5</td><td>Monthly</td></tr> </table>						Monitoring Point	Discharge Location	Quality Characteristics	Release Limit			Monitoring Frequency	Minimum	80 th Percentile	Maximum	W1	Calliope River	Suspended Solids mg/L	-	30	-	Monthly	W1	Calliope River	5day Biological Oxygen Demand mg/L	-	20	-	Monthly	W1	Calliope River	pH	6.5	-	8.5	Monthly
Monitoring Point	Discharge Location	Quality Characteristics	Release Limit			Monitoring Frequency																															
			Minimum	80 th Percentile	Maximum																																
W1	Calliope River	Suspended Solids mg/L	-	30	-	Monthly																															
W1	Calliope River	5day Biological Oxygen Demand mg/L	-	20	-	Monthly																															
W1	Calliope River	pH	6.5	-	8.5	Monthly																															

Decision notice regarding a temporary emissions licence

	W1	Calliope River	Total Phosphorus (as P) mg/L	-	-	-	Monthly																																																																						
	W1	Calliope River	Ammonia Nitrogen (mg/L)	-	-	-	Monthly																																																																						
	W1	Calliope River	Nitrogen as N (Nitrite + Nitrate) (mg/L)	-	-	-	Monthly																																																																						
	W1	Calliope River	Dissolved Oxygen mg/L	2	-	-	Monthly																																																																						
TEL9	Where inflows into the sewage treatment plant exceed the treatment capacity of the plant, monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 2 - Release Limits – Inflows exceed STP capacity. All determinations of the quality of contaminants released must be: (a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (b) carried out on samples that are representative of the discharge.																																																																												
TEL10	<table><tr><th colspan="7">Table 2 - Release Limits – Inflows exceed STP capacity</th></tr><tr><th>Monitoring Point</th><th>Discharge Location</th><th colspan="4">Quality Characteristics</th><th>Monitoring Frequency</th></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Suspended Solids mg/L</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">5day Biological Oxygen Demand mg/L</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">pH</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Total Phosphorus (as P) mg/L</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Ammonia Nitrogen (mg/L)</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Nitrogen as N (Nitrite + Nitrate) (mg/L)</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Dissolved Oxygen mg/L</td><td>Daily</td></tr><tr><td>W1</td><td>Calliope River</td><td colspan="4">Volume (L)</td><td>Total of releases</td></tr></table>							Table 2 - Release Limits – Inflows exceed STP capacity							Monitoring Point	Discharge Location	Quality Characteristics				Monitoring Frequency	W1	Calliope River	Suspended Solids mg/L				Daily	W1	Calliope River	5day Biological Oxygen Demand mg/L				Daily	W1	Calliope River	pH				Daily	W1	Calliope River	Total Phosphorus (as P) mg/L				Daily	W1	Calliope River	Ammonia Nitrogen (mg/L)				Daily	W1	Calliope River	Nitrogen as N (Nitrite + Nitrate) (mg/L)				Daily	W1	Calliope River	Dissolved Oxygen mg/L				Daily	W1	Calliope River	Volume (L)				Total of releases
Table 2 - Release Limits – Inflows exceed STP capacity																																																																													
Monitoring Point	Discharge Location	Quality Characteristics				Monitoring Frequency																																																																							
W1	Calliope River	Suspended Solids mg/L				Daily																																																																							
W1	Calliope River	5day Biological Oxygen Demand mg/L				Daily																																																																							
W1	Calliope River	pH				Daily																																																																							
W1	Calliope River	Total Phosphorus (as P) mg/L				Daily																																																																							
W1	Calliope River	Ammonia Nitrogen (mg/L)				Daily																																																																							
W1	Calliope River	Nitrogen as N (Nitrite + Nitrate) (mg/L)				Daily																																																																							
W1	Calliope River	Dissolved Oxygen mg/L				Daily																																																																							
W1	Calliope River	Volume (L)				Total of releases																																																																							

South Trees STP

The TEL permits the release of effluent from the South Trees STP to waters from discharge point W2.

The licence overrides the following condition of the environmental authority:

WT1-ST	Monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 1 - Release Limits.
--------	---

Decision notice regarding a temporary emissions licence

All determinations of the quality of contaminants released must be:

- (a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and
- (b) carried out on samples that are representative of the discharge.

Table 1 - Release Limits

Monitoring point	Discharge location	Quality characteristics	Release limit			
			Minimum	80 th percentile	Maximum	Monitoring frequency
W2	South Trees Inlet	Suspended Solids mg/L	-	30	-	Monthly
W2	South Trees Inlet	5day Biological Oxygen Demand mg/L	-	20	-	Monthly
W2	South Trees Inlet	pH	6.5	-	8.5	Monthly
W2	South Trees Inlet	Total Phosphorus (as P) mg/L	-	-	-	Monthly
W2	South Trees Inlet	Ammonia Nitrogen (mg/L)	-	-	-	Monthly
W2	South Trees Inlet	Nitrogen as N (Nitrite + Nitrate) (mg/L)	-	-	-	Monthly
W2	South Trees Inlet	Dissolved Oxygen (mg/L)	2	-	-	Monthly

The following conditions apply to the TEL:

TEL11	Where inflows into the sewage treatment plant do not exceed the treatment capacity of the plant, monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 3 - Release Limits – Inflows within STP capacity. All determinations of the quality of contaminants released must be: (c) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (d) carried out on samples that are representative of the discharge. Table 3 - Release Limits – Inflows within STP capacity
--------------	--

Notice

Decision notice regarding a temporary emissions licence

				Release limit																											
	Monitoring point	Discharge location	Quality characteristics	Minimum	80 th percentile	Maximum	Monitoring frequency																								
	W2	South Trees Inlet	Suspended Solids mg/L	-	30	-	Monthly																								
	W2	South Trees Inlet	5day Biological Oxygen Demand mg/L	-	20	-	Monthly																								
	W2	South Trees Inlet	pH	6.5	-	8.5	Monthly																								
	W2	South Trees Inlet	Total Phosphorus (as P) mg/L	-	-	-	Monthly																								
	W2	South Trees Inlet	Ammonia Nitrogen (mg/L)	-	-	-	Monthly																								
	W2	South Trees Inlet	Nitrogen as N (Nitrite + Nitrate) (mg/L)	-	-	-	Monthly																								
	W2	South Trees Inlet	Dissolved Oxygen (mg/L)	2	-	-	Monthly																								
TEL12	Where inflows into the sewage treatment exceed the treatment capacity of the plant, monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location for the parameters and not less frequently than specified in Table 4 - Release Limits – Inflows exceed STP capacity. All determinations of the quality of contaminants released must be: (a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (b) carried out on samples that are representative of the discharge. Table 1 - Release Limits – Inflows exceed STP capacity <table><tr><th>Monitoring point</th><th>Discharge location</th><th>Quality characteristics</th><th>Monitoring frequency</th></tr><tr><td>W2</td><td>South Trees Inlet</td><td>Suspended Solids mg/L</td><td>Daily</td></tr><tr><td>W2</td><td>South Trees Inlet</td><td>5day Biological Oxygen Demand mg/L</td><td>Daily</td></tr><tr><td>W2</td><td>South Trees Inlet</td><td>pH</td><td>Daily</td></tr><tr><td>W2</td><td>South Trees Inlet</td><td>Total Phosphorus (as P) mg/L</td><td>Daily</td></tr><tr><td>W2</td><td>South Trees Inlet</td><td>Ammonia Nitrogen (mg/L)</td><td>Daily</td></tr></table>							Monitoring point	Discharge location	Quality characteristics	Monitoring frequency	W2	South Trees Inlet	Suspended Solids mg/L	Daily	W2	South Trees Inlet	5day Biological Oxygen Demand mg/L	Daily	W2	South Trees Inlet	pH	Daily	W2	South Trees Inlet	Total Phosphorus (as P) mg/L	Daily	W2	South Trees Inlet	Ammonia Nitrogen (mg/L)	Daily
Monitoring point	Discharge location	Quality characteristics	Monitoring frequency																												
W2	South Trees Inlet	Suspended Solids mg/L	Daily																												
W2	South Trees Inlet	5day Biological Oxygen Demand mg/L	Daily																												
W2	South Trees Inlet	pH	Daily																												
W2	South Trees Inlet	Total Phosphorus (as P) mg/L	Daily																												
W2	South Trees Inlet	Ammonia Nitrogen (mg/L)	Daily																												

Decision notice regarding a temporary emissions licence

W2	South Trees Inlet	Nitrogen as N (Nitrite + Nitrate) (mg/L)	Daily
W2	South Trees Inlet	Dissolved Oxygen (mg/L)	Daily
W2	South Trees Inlet	Volume (L)	Continuous

Yarwun STP

The TEL permits the release of effluent from the wet weather storage of the Yarwun STP to land at the overflow point of the storage pond(s).

The TEL overrides the following conditions of the environmental authority:

WT1-YAR Contaminants must only be released to the Rio Tinto Aluminium plant from the discharge location and in compliance with the release limits listed in Table 1 - Release Limits.

Discharge Location W1 - namely release of treated sewage effluent from the Yarwun STP to Rio Tinto Aluminium.

Table 1 - Release Limits

Monitoring Point	Discharge Location	Quality Characteristics	Release Limit				Monitoring Frequency
			Minimum	50 th %ile	80 th %ile	Maximum	
W1	W1	5 day biochemical oxygen demand		5 mg/l	10 mg/l	20 mg/l	Weekly
W1	W1	Suspended solids		5 mg/l	15 mg/l	30 mg/l	Weekly
W1	W1	pH	6.5	-	-	8.5	Weekly
W1	W1	Dissolved oxygen	2 mg/l	-	-		
W1	W1	Ammonia nitrogen as nitrogen	1 mg/l	-	-	2 mg/l	Weekly
W1	W1	Total nitrogen as nitrogen	5 mg/l	-	-	10 mg/l	Weekly
W1	W1	Total phosphorus as phosphorus	1 mg/l	-	-	2 mg/l	Weekly
W1	W1	Residual free chlorine	-	-	-	0.7 mg/l	Weekly

Notice

Decision notice regarding a temporary emissions licence

	W1	W1	E.coli, based on a minimum of five samples collected at not less than half-hourly intervals	-	-	1000 organisms per 100 mL		Weekly
--	----	----	---	---	---	---------------------------	--	--------

The following conditions apply to this licence:

TEL13

Contaminants must only be released to the Rio Tinto Aluminium plant from the discharge location and in compliance with the release limits listed in Table 5 - Release Limits; or from the overflow point of the wet weather storage pond(s) to land and in compliance with Table 6 - Overflows.

Discharge Location W1 - namely release of treated sewage effluent from the Yarwun STP to Rio Tinto Aluminium.

Table 5 - Release Limits

			Release Limit				
Monitoring Point	Discharge Location	Quality Characteristics	Minimum	50 th %ile	80 th %ile	Maximum	Monitoring Frequency
W1	W1	5 day biochemical oxygen demand		5 mg/l	10 mg/l	20 mg/l	Weekly
W1	W1	Suspended solids		5 mg/l	15 mg/l	30 mg/l	Weekly
W1	W1	pH	6.5	-	-	8.5	Weekly
W1	W1	Dissolved oxygen	2 mg/l	-	-		
W1	W1	Ammonia nitrogen as nitrogen	1 mg/l	-	-	2 mg/l	Weekly
W1	W1	Total nitrogen as nitrogen	5 mg/l	-	-	10 mg/l	Weekly
W1	W1	Total phosphorus as phosphorus	1 mg/l	-	-	2 mg/l	Weekly
W1	W1	Residual free chlorine	-	-	-	0.7 mg/l	Weekly

Notice

Decision notice regarding a temporary emissions licence

W1	W1	E.coli, based on a minimum of five samples collected at not less than half-hourly intervals	-	-	1000 organisms per 100 mL		Weekly
----	----	---	---	---	---------------------------	--	--------

Table 6 – Overflows

Monitoring Point	Discharge Location	Quality Characteristics	Monitoring Frequency
Overflow release point of wet weather storage	Overflow release point of wet weather storage	5 day biochemical oxygen demand	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Suspended solids	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	pH	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Dissolved oxygen	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Ammonia nitrogen as nitrogen	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Total nitrogen as nitrogen	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Total phosphorus as phosphorus	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Residual free chlorine	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	E.coli, based on a minimum of five samples collected at not less than half-hourly intervals	Upon release and daily thereafter
Overflow release point of wet weather storage	Overflow release point of wet weather storage	Volume (L)	Total of releases

Decision notice regarding a temporary emissions licence

Boyne Island Waste Water Treatment Plant

The TEL permits the release of effluent from from the Boyne Island Waste Water Treatment Plant to the Boyne River.

The TEL overrides the following conditions of the environmental authority:

WT1-BOY	Treated effluent shall not be released to waters except; (a) from Boyne Island Sewage Treatment Plant, (this being discharged to QAL's Red Mud dam at Boyne Island), and (b) through storage lagoon overflows where the 90% reliability of disposal criteria is exceeded as a result of environmental conditions (i.e. not more than 10% of treated effluent per annum shall be released in this manner).
---------	--

The following conditions apply to this licence:

TEL14	Treated effluent shall not be released to waters except; (a) from Boyne Island Sewage Treatment Plant, (this being discharged to QAL's Red Mud dam at Boyne Island), and (b) through storage lagoon overflows as required while this temporary emissions license is in effect.
-------	---

Tannum Sands STP

The TEL permits the release of effluent from from the Tannum Sands sewage treatment plant to the Boyne River.

The TEL overrides the following conditions of the environmental authority:

WT1-TS

Monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location specified in condition WT2-9 for the quality characteristics and not less frequently than specified in Table 1 - Release Limits. All determinations of the quality of contaminants released must be:

(a) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and

(b) carried out on samples that are representative of the discharge.

Table 1 - Release Limits

Discharge location	Quality characteristics	Min	50th percentile	Maximum	Monitoring Frequency
RP1	Suspended Solids	-	-	20 mg/l	Weekly

Decision notice regarding a temporary emissions licence

	RP1	5-day Biological Oxygen Demand	-	-	20 mg/l	Weekly
	RP1	pH	6.5	-	8.5	Weekly
	RP1	Total Phosphorus as P	-	1 mg/L	3 mg/l	Weekly
	RP1	Total Nitrogen as N	-	5mg/l	15 mg/l	Weekly
	RP1	Faecal coliforms	-	-	<10 cfu/100mL	Weekly
	RP2	Suspended Solids	-	-	20 mg/l	Upon release
	RP2	5-day Biological Oxygen Demand	-	-	20 mg/l	Upon release
	RP2	pH	6.5	-	8.5	Upon release
	RP2	Faecal coliforms	-	-	<10 cfu/100mL	Upon release
	RP2	Total Phosphorus as P	-	-	1627.5 kg/yr*	Upon release
	RP2	Total Nitrogen as N	-	-	542.5 kg/yr*	Upon release
	*Annual mass load for nutrient allowed to be released to the Boyne River is over one calendar year. The calculation of the mass load must be performed at the time the release to the Boyne River commences and calculated until the release stops.					
WT2-TS	Discharge locations are identified as: (a) RP1 - release of treated sewage effluent from Tannum Sands sewage treatment plant storage lagoon to the Queensland Alumina Limited Residue Management Area (RMA), BITS Sports Clubs, BITS Golf Club and Dennis Park. (b) RP2 - release of treated sewage effluent from the Tannum Sands sewage treatment plant to the Boyne River.					
WT3-TS	Treated effluent may only be released to the Boyne River at release point RP2 when the volume of stormwater exceeds the on-site storage capacity and must be in accordance with the release limits specified in Table 1 - Release Limits.					

The following conditions apply to this licence:

TEL 15	Monitoring must be undertaken and records kept of contaminant releases to waters from the discharge location specified in condition TEL 16 for the quality characteristics and not less frequently than specified in Table 7 - Release Limits. All determinations of the quality of contaminants released must be: (c) made in accordance with methods prescribed in the latest edition of the administering authority's Water Quality Sampling Manual; and (d) carried out on samples that are representative of the discharge.
---------------	--

Table 7 - Release Limits					
Discharge location	Quality characteristics	Min	50th percentile	Maximum	Monitoring Frequency
RP1	Suspended Solids	-	-	20 mg/l	Weekly
RP1	5-day Biological Oxygen Demand	-	-	20 mg/l	Weekly
RP1	pH	6.5	-	8.5	Weekly
RP1	Total Phosphorus as P	-	1 mg/L	3 mg/l	Weekly
RP1	Total Nitrogen as N	-	5mg/l	15 mg/l	Weekly
RP1	Faecal coliforms	-	-	<10 cfu/100mL	Weekly
RP2	Suspended Solids	-	-	-	Upon release
RP2	5-day Biological Oxygen Demand	-	-	-	Upon release
RP2	pH	-	-	-	Upon release
RP2	Faecal coliforms	-	-	-	Upon release
RP2	Total Phosphorus as P	-	-	-	Upon release
RP2	Total Nitrogen as N	-	-	-	Upon release
RP2	Volume (L)	-	-	-	Total of releases
*Annual mass load for nutrient allowed to be released to the Boyne River is over one calendar year. The calculation of the mass load must be performed at the time the release to the Boyne River commences and calculated until the release stops.					
TEL 16	Discharge locations are identified as: (c) RP1 - release of treated sewage effluent from Tannum Sands sewage treatment plant storage lagoon to the Queensland Alumina Limited Residue Management Area (RMA), BITS Sports Clubs, BITS Golf Club and Dennis Park. (d) RP2 - release of treated sewage effluent from the Tannum Sands sewage treatment plant to the Boyne River.				
TEL 17	Treated effluent may only be released to the Boyne River at release point RP2 when the volume of stormwater exceeds the on-site storage capacity and must be in accordance with the release limits specified in Table 1 - Release Limits.				

Agnes Water Wastewater Treatment Plant

The TEL permits the release of effluent from from the Agnes Water Wastewater Treatment Plant to land as overflow from the emergency storage lagoon.

Notice

Decision notice regarding a temporary emissions licence

The TEL overrides the following conditions of the environmental authority:

WT5-AW	Contaminants in recycled water must not be released to the environment, including from the recycled water storage tank (post sewage treatment works), in excess of the quality characteristics specified in Table 1 - Release Limits.																																																																																																
WT6-AW	Monitoring of contaminants in recycled water from the sewage treatment works must be undertaken as specified in Table 1 - Release Limits, at the release point from recycled water storage tank prior to irrigation, with records kept for the quality characteristics and frequency of monitoring. Table 1 - Release Limits <table> <tr> <th>Quality Characteristic</th><th>Units</th><th>Minimum</th><th>Median</th><th>Maximum</th><th>Monitoring frequency 1</th><th>Monitoring frequency 2</th></tr> <tr> <td>Electrical conductivity</td><td>µS/cm</td><td>-</td><td>-</td><td>1600</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>5 day Biochemical oxygen demand (inhibited)</td><td>mg/L</td><td>-</td><td>-</td><td>10</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Total Suspended Solids</td><td>mg/L</td><td>-</td><td>-</td><td>15</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Dissolved oxygen</td><td>mg/L</td><td>-</td><td>-</td><td>>2</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Total Nitrogen</td><td>mg/L as Nitrogen</td><td>-</td><td>-</td><td>10</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Oxidised nitrogen</td><td>mg/L as Nitrogen</td><td>-</td><td>-</td><td>10</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Ammonia</td><td>mg/L as Nitrogen</td><td>-</td><td>-</td><td>1</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Total Phosphorus</td><td>mg/L as Phosphorus</td><td>-</td><td>-</td><td>1</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>pH</td><td>Scale</td><td>6.5</td><td>-</td><td>8.5</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td>Residual Chlorine</td><td>mg/L</td><td>0.5</td><td>-</td><td>2</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td><i>Chlorophyll a</i></td><td>µg/L</td><td>-</td><td>-</td><td>-</td><td>Weekly</td><td>Monthly</td></tr> <tr> <td><i>E.coli</i></td><td>Colony forming units/100ml</td><td>-</td><td>100</td><td>-</td><td>Weekly</td><td>Monthly</td></tr> </table>						Quality Characteristic	Units	Minimum	Median	Maximum	Monitoring frequency 1	Monitoring frequency 2	Electrical conductivity	µS/cm	-	-	1600	Weekly	Monthly	5 day Biochemical oxygen demand (inhibited)	mg/L	-	-	10	Weekly	Monthly	Total Suspended Solids	mg/L	-	-	15	Weekly	Monthly	Dissolved oxygen	mg/L	-	-	>2	Weekly	Monthly	Total Nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly	Oxidised nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly	Ammonia	mg/L as Nitrogen	-	-	1	Weekly	Monthly	Total Phosphorus	mg/L as Phosphorus	-	-	1	Weekly	Monthly	pH	Scale	6.5	-	8.5	Weekly	Monthly	Residual Chlorine	mg/L	0.5	-	2	Weekly	Monthly	<i>Chlorophyll a</i>	µg/L	-	-	-	Weekly	Monthly	<i>E.coli</i>	Colony forming units/100ml	-	100	-	Weekly	Monthly
Quality Characteristic	Units	Minimum	Median	Maximum	Monitoring frequency 1	Monitoring frequency 2																																																																																											
Electrical conductivity	µS/cm	-	-	1600	Weekly	Monthly																																																																																											
5 day Biochemical oxygen demand (inhibited)	mg/L	-	-	10	Weekly	Monthly																																																																																											
Total Suspended Solids	mg/L	-	-	15	Weekly	Monthly																																																																																											
Dissolved oxygen	mg/L	-	-	>2	Weekly	Monthly																																																																																											
Total Nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly																																																																																											
Oxidised nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly																																																																																											
Ammonia	mg/L as Nitrogen	-	-	1	Weekly	Monthly																																																																																											
Total Phosphorus	mg/L as Phosphorus	-	-	1	Weekly	Monthly																																																																																											
pH	Scale	6.5	-	8.5	Weekly	Monthly																																																																																											
Residual Chlorine	mg/L	0.5	-	2	Weekly	Monthly																																																																																											
<i>Chlorophyll a</i>	µg/L	-	-	-	Weekly	Monthly																																																																																											
<i>E.coli</i>	Colony forming units/100ml	-	100	-	Weekly	Monthly																																																																																											

Notice

Decision notice regarding a temporary emissions licence

	<i>Enterococcus organisms</i>	Colony forming units/100ml	-	-	-	Weekly	Monthly
	NOTES - Means median of five consecutive samples taken at not less than ½ hourly intervals < indicates less than. - Monitoring Frequency 1 = Monitoring frequency to be implemented for a minimum of 3 months following commissioning of the sewage treatment works. - Monitoring Frequency 2 = Monitoring frequency to be implemented following demonstrated compliance with quality characteristics for Monitoring Frequency 1. If exceedance are reported during the quarterly monitoring period the operator must revert to monthly monitoring frequencies until conformance is achieved for 3 continuous months, after which quarterly monitoring will resume.						

The following conditions apply to this licence:

TEL18	Contaminants in recycled water must not be released to the environment, including from the recycled water storage tank (post sewage treatment works), in excess of the quality characteristics specified in Table 8 - Release Limits, except from overflows from the emergency storage lagoon.																												
TEL19	Monitoring of contaminants in recycled water from the sewage treatment works must be undertaken as specified in Table 8 - Release Limits, at the release point from recycled water storage tank prior to irrigation, with records kept for the quality characteristics and frequency of monitoring; and from Table 9 – Release characteristics of overflows, at the emergency storage lagoon overflow point, with records kept for the quality characteristics and frequency of monitoring. Table 8 - Release Limits <table><tr><th>Quality Characteristic</th><th>Units</th><th>Minimum</th><th>Median</th><th>Maximum</th><th>Monitoring frequency 1</th><th>Monitoring frequency 2</th></tr><tr><td>Electrical conductivity</td><td>µS/cm</td><td>-</td><td>-</td><td>1600</td><td>Weekly</td><td>Monthly</td></tr><tr><td>5 day Biochemical oxygen demand (inhibited)</td><td>mg/L</td><td>-</td><td>-</td><td>10</td><td>Weekly</td><td>Monthly</td></tr><tr><td>Total Suspended Solids</td><td>mg/L</td><td>-</td><td>-</td><td>15</td><td>Weekly</td><td>Monthly</td></tr></table>	Quality Characteristic	Units	Minimum	Median	Maximum	Monitoring frequency 1	Monitoring frequency 2	Electrical conductivity	µS/cm	-	-	1600	Weekly	Monthly	5 day Biochemical oxygen demand (inhibited)	mg/L	-	-	10	Weekly	Monthly	Total Suspended Solids	mg/L	-	-	15	Weekly	Monthly
Quality Characteristic	Units	Minimum	Median	Maximum	Monitoring frequency 1	Monitoring frequency 2																							
Electrical conductivity	µS/cm	-	-	1600	Weekly	Monthly																							
5 day Biochemical oxygen demand (inhibited)	mg/L	-	-	10	Weekly	Monthly																							
Total Suspended Solids	mg/L	-	-	15	Weekly	Monthly																							

Decision notice regarding a temporary emissions licence

Dissolved oxygen	mg/L	-	-	>2	Weekly	Monthly
Total Nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly
Oxidised nitrogen	mg/L as Nitrogen	-	-	10	Weekly	Monthly
Ammonia	mg/L as Nitrogen	-	-	1	Weekly	Monthly
Total Phosphorus	mg/L as Phosphorus	-	-	1	Weekly	Monthly
pH	Scale	6.5	-	8.5	Weekly	Monthly
Residual Chlorine	mg/L	0.5	-	2	Weekly	Monthly
<i>Chlorophyll a</i>	µg/L	-	-	-	Weekly	Monthly
<i>E.coli</i>	Colony forming units/100ml	-	100	-	Weekly	Monthly
<i>Enterococcus organisms</i>	Colony forming units/100ml	-	-	-	Weekly	Monthly

NOTES

1. Means median of five consecutive samples taken at not less than ½ hourly intervals < indicates less than.
2. Monitoring Frequency 1 = Monitoring frequency to be implemented for a minimum of 3 months following commissioning of the sewage treatment works.
3. Monitoring Frequency 2 = Monitoring frequency to be implemented following demonstrated compliance with quality characteristics for Monitoring Frequency 1. If exceedance are reported during the quarterly monitoring period the operator must revert to monthly monitoring frequencies until conformance is achieved for 3 continuous months, after which quarterly monitoring will resume.

Table 9 – Release characteristics of overflows

Quality Characteristic	Units	Monitoring frequency
Electrical conductivity	µS/cm	Daily
Total Suspended Solids	mg/L	Daily
Dissolved oxygen	mg/L	Daily
Total Nitrogen	mg/L as Nitrogen	Daily

Notice

Decision notice regarding a temporary emissions licence

	Ammonia	mg/L as Nitrogen	Daily
	Total Phosphorus	mg/L as Phosphorus	Daily
	pH	Scale	Daily
	Residual Chlorine	mg/L	Daily
	<i>E.coli</i>	Colony forming units/100ml	Daily
	Volume	L	Total of releases

Agnes Water Desalination Plant

The TEL increases the permitted turbidity limit for releases to water from the Agnes Water Desalination Plant.

The TEL overrides the following conditions of the environmental authority:

WT1-AWDP	Contaminants must not be directly or indirectly released from the place to which this Environmental Authority relates to any waters or the bed and banks of any waters except desalination effluent in compliance with the corresponding release limits listed in Table 1 - Contaminant release water quality limits and in accordance with the conditions of this Environmental Authority.							
	Table 1 – Contaminant release water quality limits and release locations							
	Release Limits						Monitoring Frequency	
	Monitoring Point	Release Point Quality Characteristic	Units	Min	5%ile	95%ile ⁽¹⁾	Max	
	P1	Turbidity	NTU	-	-	BG ⁺ + 5 ⁽²⁾	BG ⁺ + 20 ⁽²⁾	Online Continuous
	P1	Dissolved Oxygen	mg/L	3.4	-	-	-	Online Continuous
	P1	Total Dissolved Solids	ppt	-	-	< or = 67 if BG ⁺ < 38 otherwise 67 x BG ⁺ /38	< or = 75 if BG ⁺ < 38 otherwise 785 x BG ⁺ /38	Calculated continuously ^{##}
	P1	Electrical Conductivity	mS/cm	-	-	TDS equivalent	TDS equivalent	Online Continuous
	P1	pH	-	5.5	6.5	8.5	9.5	Online Continuous
	P1	Total Chlorine	µg/L	-	-	120	700	Online Continuous

Decision notice regarding a temporary emissions licence

	P1	Temperature	°C	-	-	BG*** + 2	BG*** + 5	Online Continuous
	P1	Total Suspended Solids	mg/L	-	-	10 if BG**** < 10 else BG**** + 2	20 if BG**** < 10 else BG**** + 10	Weekly of composite sample###
	P1	Total Nitrogen#	µg/L as N	-	-	-	-	Weekly of composite sample###
	P1	Total Phosphorus#	µg/L as P	-	-	-	-	Weekly of composite sample###
	P1 Monitoring Point P1 – Backwash Tank outlet pipe – Agnes Water Desalination Plant BG* Indicates intake seawater turbidity at time of measurement. BG** Indicates intake seawater TDS as calculated from a conductivity measurement, at time of measurement. BG*** Indicates intake seawater temperature at time of measurement. BG**** Indicates intake seawater total suspended solids at time of measurement. N Nitrogen. P Phosphorous. # Data for these parameters will be used as part of the REMP. < Indicates less than. = Indicates equals. ## Indicates TDS to be calculated from conductivity measurements. The site specific conductivity to TDS ratio to be established and checked monthly. ### "Weekly of composite sample" means a sample taken over a 24 hour period once per week. The sample to be made up of a composite of samples taken at least every 2 hours and being representative of the flow. (1) Indicates that any on-line continuous monitoring must have a minimum frequency of every 5 minutes and is calculated over the last 12 hours (2) Where online continuous monitoring results for turbidity exceed the nominated criteria for a sustained period of more than 3 minutes.							

The following conditions apply to this licence:

TEL20	Contaminants must not be directly or indirectly released from the place to which this temporary emissions license relates to any waters or the bed and banks of any waters except desalination effluent in compliance with the corresponding release limits listed in Table 10 - Contaminant release water quality limits and in accordance with the conditions of this Environmental
--------------	---

Authority.

Table 10 – Contaminant release water quality limits and release locations

Release Limits							Monitoring Frequency
Monitoring Point	Release Point Quality Characteristic	Units	Min	5%ile	95%ile ⁽¹⁾	Max	
P1	Turbidity	NTU	-	-	BG* + 15 ⁽²⁾	BG* + 25 ⁽²⁾	Online Continuous
P1	Dissolved Oxygen	mg/L	3.4	-	-	-	Online Continuous
P1	Total Dissolved Solids	ppt	-	-	< or = 67 if BG** < 38 otherwise 67 x BG**/38	< or = 75 if BG** < 38 otherwise 75 x BG**/38	Calculated continuously ^{##}
P1	Electrical Conductivity	mS/cm	-	-	TDS equivalent	TDS equivalent	Online Continuous
P1	pH	-	5.5	6.5	8.5	9.5	Online Continuous
P1	Total Chlorine	µg/L	-	-	120	700	Online Continuous
P1	Temperature	°C	-	-	BG*** + 2	BG*** + 5	Online Continuous
P1	Total Suspended Solids	mg/L	-	-	10 if BG**** < 10 else BG**** + 2	20 if BG**** < 10 else BG**** + 10	Weekly of composite sample ^{###}
P1	Total Nitrogen [#]	µg/L as N	-	-	-	-	Weekly of composite sample ^{###}
P1	Total Phosphorus [#]	µg/L as P	-	-	-	-	Weekly of composite sample ^{###}

P1 Monitoring Point P1 – Backwash Tank outlet pipe – Agnes Water Desalination Plant

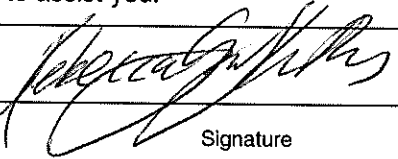
BG* Indicates intake seawater turbidity at time of measurement.

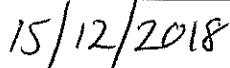
BG** Indicates intake seawater TDS as calculated from a conductivity measurement, at time of measurement.

Decision notice regarding a temporary emissions licence

BG***	Indicates intake seawater temperature at time of measurement.
BG****	Indicates intake seawater total suspended solids at time of measurement.
N	Nitrogen.
P	Phosphorous.
#	Data for these parameters will be used as part of the REMP.
<	Indicates less than.
=	Indicates equals.
##	Indicates TDS to be calculated from conductivity measurements. The site specific conductivity to TDS ratio to be established and checked monthly.
###	"Weekly of composite sample" means a sample taken over a 24 hour period once per week. The sample to be made up of a composite of samples taken at least every 2 hours and being representative of the flow.
(1)	Indicates that any on-line continuous monitoring must have a minimum frequency of every 5 minutes and is calculated over the last 12 hours
(2)	Where online continuous monitoring results for turbidity exceed the nominated criteria for a sustained period of more than 3 minutes.

Should you have any queries in relation to this notice, Sarah Mitchell on telephone (07) 3330 5082 would be happy to assist you.


Signature


Date

Rebecca Griffiths
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Sarah Mitchell
Utilities and Government Organisations
Assessment
Department of Environment and Science
GPO Box 2454
Brisbane QLD 4001
Email: sarah.mitchell@des.qld.gov.au