



Northern
Territory
Government

ANNUAL AUDIT AND COMPLIANCE REPORT WASTE DISCHARGE LICENCE

LICENCE NO.	WDL 150-07
REPORTING PERIOD	1 November 2019 to 31 October 2020

Please email a copy of your completed AACR to waste@nt.gov.au.

Licence Details

Licence Number:

WDL150-07

**Registered Business
Address:**

Level 2, Mitchell Centre
55 – 59 Mitchell Street
Darwin NT 0800

ABN:

15 947 352 360

Premises:

Ludmilla Wastewater Treatment Plant
21 Dick Ward Drive; Ludmilla, N.T. 0820

Anniversary Date:

01 November

Commencement Date:

9 August 2019

Expiry Date:

31 October 2020

Licensed Activity

The discharge of wastewater from the Ludmilla Waste
Wastewater Treatment Plant (WWTP) to Darwin Harbour
subject to the Licence Conditions.

Compliance with Licence Conditions

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
GENERAL					
1.	The licensee must ensure the contact details recorded with the Administering Agency for this licence are correct at all times.	No changes to contact details within this period	No change	Ongoing	Compliant
2.	The licensee must at all times have a 24-hour emergency contact.	24 hour emergency contact number (1800 245 090) available at all time within this Licence Reporting Period PWC internet 'Contact Us' lists current emergency contact number. Also displayed at the public entrance Ludmilla WwTP.	1800 245 090 PWC internet 'Contact Us' Public entrance Ludmilla WwTP.	Ongoing	Compliant
3.	The licensee must notify the Administering Agency prior to making any operational change that will cause, or is likely to cause, an increase in the potential for environmental harm.	All operational changes that will cause or are likely to cause an increased risk in the potential for environmental harm were notified prior to the change being made: Operational Change to alter the effluent pump discharge sequencing for a period of time on 19 March to enable the installation of software to operate the new automated 2 rotorks valves. <u>D2020/127080</u>	<u>D2020/127080</u>	17/03/2020	Compliant
4.	The licensee must cause clear and legible signage, in English, to be displayed in a prominent location at each public entrance to the premises that includes the following details:	Ludmilla site sign has been installed at the public entrance to the premises within 2 months of commencement date of this licence. Signage details included clear and legible signage in English, Waste Discharge Licence number and the 24 hour emergency contact details. <i>Sign installation date:</i> 19/12/2018 as per email notification to Administering Agency <u>D2018/560469</u>	Email notification <u>D2018/560469</u> 19/12/2018	ongoing	Compliant
	4.1. The number of this waste discharge Licence number issued under the Water Act (as identified on the first page of this Licence); and	The sign includes the Waste Discharge Licence number as issued under the Water Act (as identified on the first page of this licence).	Photographic evidence <u>D2018/560469</u> P1050925 (<u>D2019/566059</u>) P1050929 (<u>D2019/566063</u>)	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	4.2. 24 hour emergency contact details.	Sign includes 24 hour contact number	Photographic evidence D2018/560469 P1050925 (D2019/566059) P1050929 (D2019/566063)		Compliant
5.	The licensee must cause a copy of this licence to be available for inspection by any person, in hard copy form, at the registered business address.	WDL hardcopy available for inspection at registered business address (RBA D2019/394627 (150-07)) Additionally, the WDL have been uploaded to PWC Internet D2019/413375 (150-07) A hard copy of the Licence is also retained on site D2019/413375	Corp Comms email D2019/394627 (150-07) Uploaded to PWC Internet web page. D2019/413375 (150/07) Full set located in Red Folder Compliance	Ongoing	Compliant
6.	The licensee must provide to the Adminstrating Agency, within 10 business days of a request, a copy of any document, monitoring data or other information in relation to the activity, in the format requested by the Adminstrating Agency	No requests received in the reporting period			Compliant
7.	All notices, reports, documents, data, information or correspondence required to be provided by the Licensee in accordance with this Licence must provide in electronic form by emailing the document to waste@nt.gov.au	PWC provides all notifications/documents to specified email address. Refer to evidence provided with respect to each condition in this Annual Return. All compliance related correspondence and submissions are stored in a dedicated WDL 150 Content Manager container F2006/5056 . Specific documentation is stored in F2013/6959 (Exceedance Reporting); F2013/352 (Environmental Risk Assessment; F2017/3458 (Improvement Plan); F2014/697 (Benthic Infauna Studies); and F2018/4620 (Annual Compliance Reporting)	General Administration F2006/5056 Exceedance Reporting F2013/ 6959 Environmental Risk Assessment F2013/352 Improvement Plan F2017/3458 Benthic Studies F2014/697	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status										
8.	The licensee must maintain and implement the current version of the documents specified in Table 1. <table><tr><th>Doc ID</th><th>Title</th></tr><tr><td>1</td><td> • WDL150 Environmental Risk Assessment • En2011/0014-02-197-0003 • <u>D2019/418906</u> </td></tr><tr><td>2</td><td> • PWC WDL Communications Strategy • En2011/0014-02-196-0003 • <u>D2015/500627</u> </td></tr><tr><td>3</td><td> • WDL150 Ludmilla WwTP Management Goals • En2011/0014-02-202-0001 • <u>D2019/231299</u> </td></tr><tr><td>4</td><td> • Ludmilla WwTP Emergency Response Plan • En2011/0014-02-196-0002 • <u>BDOC2013/130</u> </td></tr></table>	Doc ID	Title	1	• WDL150 Environmental Risk Assessment • En2011/0014-02-197-0003 • <u>D2019/418906</u>	2	• PWC WDL Communications Strategy • En2011/0014-02-196-0003 • <u>D2015/500627</u>	3	• WDL150 Ludmilla WwTP Management Goals • En2011/0014-02-202-0001 • <u>D2019/231299</u>	4	• Ludmilla WwTP Emergency Response Plan • En2011/0014-02-196-0002 • <u>BDOC2013/130</u>	The documents as listed in Table 1 have been implemented and where appropriate updated to maintain their currency Environmental Risk Assessment updated to incorporate additional information relating to pathogens in the effluent discharge impacting on receiving waters <u>D2019/418906</u> Communications Strategy amended 04/12/2019 to include emergency contact number. <u>D2015/500627</u> and 19/06/2020 to include updated actions under the communications strategy. Management Goals updated to new licence requirements <u>D2019/310374</u> 28/06/2019 Forms the basis of ongoing emergency management preparedness training and exercises for the Ludmilla WwTP: Basis of site pass training for site access. Emergency response and chlorine capping exercises with fire and emergency services Two listed documents have been updated within the reporting period. The updated documents were provided to the Administering agency along with a tabulated summary of changes within 10 Business Days of the change: Environmental Risk Assessment amended 1/11/2019 <u>D2019/418906</u>. Communications Strategy amended	2020 Monitoring Report and Annual Return <u>F2018/4620</u> Specific evidence listed against individual documents Notification email <u>D2019/515969</u> Strategy <u>D2015/500627</u> Updated 19/06/2020 Ongoing implementation Site Pass Records and emergency incident management training and exercises. Environmental Risk Assessment notification <u>D2019/515969</u> Tabulated Summary <u>D2019/536119</u>	1/11/2019 Ongoing 30/06/2020 Ongoing Ongoing Ongoing 1/11/2019 14/11/2019 28/06/2019 03/07/2019	Compliant Compliant Compliant Compliant Compliant Compliant Compliant
		Doc ID	Title												
		1	• WDL150 Environmental Risk Assessment • En2011/0014-02-197-0003 • <u>D2019/418906</u>												
		2	• PWC WDL Communications Strategy • En2011/0014-02-196-0003 • <u>D2015/500627</u>												
		3	• WDL150 Ludmilla WwTP Management Goals • En2011/0014-02-202-0001 • <u>D2019/231299</u>												
4	• Ludmilla WwTP Emergency Response Plan • En2011/0014-02-196-0002 • <u>BDOC2013/130</u>														
9.	Within 10 business days of any amendment being made to a document provided to the Administering Agency as a requirement of this licence, the licensee must provide the amended document to the Administering Agency, along with:				Compliant										

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	9.1 A tabulated summary of the amendment(s) with document references;	Tabulated summary submitted within 10 business days of amendments Management Goals (D2019/317566); Environmental Risk Assessment (D2019/536119)	Submission notification Management Goals D2019/317566 Environmental Risk Assessment D2019/536119	03/07/2019	Compliant
	9.2 Reason for the amendment(s); and	Tabulation includes reasons for amendment		14/11/2019	Compliant
	9.3 An assessment of the environmental risk associated with the amendment(s)	Tabulations include an assessment of the environmental risks associated with the amendments			Compliant
10.	The Administering Agency may require the licensee to revise or amend and resubmit any amended document. Where the Administering Agency requires a document to be resubmitted, the licensee must submit it to the Administering Agency by the date specified by the Administering Agency.	No requests to revise or amend and resubmit any documents	NA	NA	NA
11.	The licensee must operate and maintain a community feedback number.	PWC is accessible for community feedback and emergency contact associated with the Licensed Activity by providing multiple lines of contact as per the Consultation and Communication Action Plan: • Customer enquiry (1800 245 092) • Emergency contact (1800 245 090)	Email notification D2019/469820 And PWC website	Ongoing	Compliant
12.	The licensee must display the community feedback number:	Power and Water's core digital channels have been updated to improve communication and the visibility of the feedback number, include the website, Facebook, Twitter, and LinkedIn.	PWC website PWC Facebook	Ongoing	Compliant
	12.1 where the licensee has a website, in a prominent location on the licensee's website;	General Enquiries and Emergency Hotline phone numbers presented on home page of PWC Website: https://www.powerwater.com.au/customers/contact_us Power and Water's website has been updated with specifically designed formats for mobile and tablets, which make the community feedback number prominent.	PWC website	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	12.2 in the Consultation and Communication Plan; and	General Enquiries and Emergency Hotline phone numbers presented within the PWC WDL Communications Strategy D2015/500627	D2015/500627	Ongoing	Compliant
	12.3 in other publicly available documents relating to the activity.	General Enquiries and Emergency Hotline phone numbers are displayed within a number of publicly available documents from the Power and Water Website or Power and Water Customer Service Outlets. - Ludmilla Wastewater Treatment Plan Fact Sheet – available on request. Used for site tours or broad public awareness campaigns informing people about wastewater, including open days and events. - Ludmilla Site Sign Installed on 19/12/2018 as per email notification to Administering Agency D2018/560469	D2019/419145 Email notification D2018/560469	Ongoing 19/12/2018	Compliant
13.	The licensee must maintain a Complaint Log for all complaints received by the licensee in relation to the activity.	PWC received no complaints regarding the Activity during the reporting period. One complaint was made to the media on 5/09/2019 (1 km long evil black plume of 'turds' at East Point Outfall). The issue relates to an event notified to the Administering Agency on 4/9/2019 (D2019/414613); the event was recorded in the PWC tracking matrix D2012/66732. Complaints to PWC are recorded with details specified are captured in both PWC database MAXIMO and/or in PWC Water Quality – Complaints Tracking Worksheet in Compliance Matrix Tracking on D2012/66732	Maximo data D2020/480170 Compliance Matrix Tracking D2012/66732	Ongoing	Compliant
14.	The licensee must ensure that the Complaint Log includes, for each complaint received by the licensee, the following information:	No complaints regarding the Activity was recorded in this reporting period as per D2020/480170 Tracking matrix includes information required by Conditions 14.1 to 14.10	Maximo data D2020/480170 Compliance Matrix Tracking D2012/66732	Ongoing	Compliant
	14.1. the person to whom the complaint was made;	tracking matrix includes information required by Conditions 14.1 to 14.10	D2020/480170 and D2012/66732	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	14.2. the person responsible for managing the complaint;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.3. the date and time of the complaint was reported;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.4. the date and time of the event(s) that led to the complaint;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.5. the contact details of the complainant if known; or where no detail are provided a note to that effect;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.6. the nature of the complaint;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.7. the nature of the event(s) giving rise to the complaint;	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.8. prevailing weather conditions at the time (where relevant to the complaint);	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.9. the action taken in relation to the complaint, including any follow-up contact with the complainant; and	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
	14.10. if no action was taken, why no action was taken.	tracking matrix includes information required by Conditions 14.1 to 14.10	<u>D2020/480170 and D2012/66732</u>	Ongoing	Compliant
EARLY SURRENDER OF LICENCE					
15.	Any reports, records or other information required or able to be provided by the licensee under this licence must be submitted to the Adminstrating Agency prior to the licensee surrendering the licence. If the date on which a report, record or other information is required falls after	As treatment of sewage and safe disposal of the effluent is an essential service PWC does not intend surrendering the licence early, however in the case of this event PWC will comply with Condition 15	N/A	N/A	N/A

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	the date the licensee requests to surrender this licensee, the licensee must provide the report, record or information as far as possible using data available to the licensee up to and including the date the request to surrender the licence is made.				
OPERATIONAL					
16.	The licensee must, without limiting any other condition of this licence in conducting the Activity do all things reasonable and practicable to ensure the Activity does not adversely affect the Declared Beneficial Uses and Objectives as declared from time to time, including those applying to: <i>The Darwin Harbour Region (Northern Territory Government Gazette No. G27, 7 July 2010).</i>	The zone of influence for the discharge describes the area where water quality criteria considered protective of BU's 'do not apply to certain indicators' (VIC EPA 2009). PWC does all things reasonable and practicable within the constraints of the existing legacy discharge/infrastructure to protect BU's. The management goals (D2019/231299) is focused on meeting the BU declaration objectives and the Ludmilla Improvement Plan (D2019/231281) provide for both 'water' and 'infrastructure' management actions under the Darwin Harbour Water Quality Protection Plan (DLRM 2014). The overall aim of this plan is to ensure water quality objectives are maintained and that community's values for waterways (BU's) are protected.	2019 Improvement Plan D2019/231281	Ongoing	Compliant
17.	The licensee must ensure any plant or equipment used by the Licensee in conducting the activity: 17.1. is reasonable fit for the purpose and use to which it is put;	The plant was upgraded in 2012 to a 20 to 25 (to 2030) year design horizon using an accepted industry design standard and maintained to accepted industry standards in accordance with PWC's Asset Management Framework PWC does all things reasonable and practicable within the constraints of the existing discharge/infrastructure to ensure it is reasonable fit for purpose and maintained. Design and installation of equipment in relation to conducting the activity is undertaken in accordance with	Design basis D2010/361400 Darwin Wastewater Weekly Sampling Report. F2006/5051 Fixed Asset Management Standard	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
		PWC's design criteria with is reviewed annually by the infrastructure commissioner.	CONTROL0449		
	17.2. is maintained; and	PWC operate under the <i>Fixed Asset Management Standard</i> CONTROL0449 framework that utilize "Maximo". All assets that have ongoing management and maintenance requirements are recorded in Maximo to ensure the ongoing service and maintenance activities are carried out when needed.	Darwin Harbour field observations F2011/6237 Fixed Asset Management Standard CONTROL0449	Ongoing	Compliant
	17.3. is operated by a person trained to use the plant and equipment	PWC operators have industry specific recognised qualification "<i>Certificate III or IV for Wastewater Management</i>", training and experience to use the plant and equipment relevant to the conduct of the Activity. Additionally, PWC develops improvement key actions in order to minimise impacts associated with the licensed activity. For further details refer to the Ludmilla 2019 Improvement Plan D2019/231281. Supplementary photographs are taken during the fortnightly wastewater sample collection and are kept in <i>Content Manager</i> container F2006/5051; Darwin Harbour sample collection and are kept in <i>Content Manager</i> container F2011/6237.	Fixed Asset Management Standard CONTROL0449 Operators are required to undertake training as relevant to their role	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status												
DISCHARGES																	
18.	This licence authorises wastewater to be discharged to water from the authorised discharge point(s) as identified in Table 2, and as otherwise allowed in accordance with the conditions of this licence: <table><tr><th colspan="3">Table 2</th></tr><tr><th>Authorised Discharge Point</th><th>Description Source</th><th>Location (MGA94, Zone 54)</th></tr><tr><td>SLUEP01</td><td>Ludmilla WWTP effluent</td><td>Latitude: -12.4015° Longitude: 130.91006°</td></tr><tr><td>SLU080 (150-06) SLULCDP 150-07</td><td>Ludmilla WWTP effluent – overflow weir to Ludmilla Creek</td><td>Latitude - 12.42051° Longitude 130.8450°</td></tr></table>	Table 2			Authorised Discharge Point	Description Source	Location (MGA94, Zone 54)	SLUEP01	Ludmilla WWTP effluent	Latitude: -12.4015° Longitude: 130.91006°	SLU080 (150-06) SLULCDP 150-07	Ludmilla WWTP effluent – overflow weir to Ludmilla Creek	Latitude - 12.42051° Longitude 130.8450°	The discharges to East Point Outfall and Ludmilla Creek were undertaken via the authorised discharge points. No unauthorised discharges occurred during the reporting period as per Pi Historian database and PWC tracking worksheet D2012/66732	Compliance Matrix Tracking D2012/66732	Ongoing	Compliant
Table 2																	
Authorised Discharge Point	Description Source	Location (MGA94, Zone 54)															
SLUEP01	Ludmilla WWTP effluent	Latitude: -12.4015° Longitude: 130.91006°															
SLU080 (150-06) SLULCDP 150-07	Ludmilla WWTP effluent – overflow weir to Ludmilla Creek	Latitude - 12.42051° Longitude 130.8450°															
19.	The licensee must ensure that all discharge events at each authorised discharge point consist only of waste from the source as specified in Table 2	Treated wastewater is discharged to East Point Outfall and Ludmilla Creek via the re-carbonation chamber (SLU080) which is pumped to the East Point Rising Main or via the overflow weir to Ludmilla Creek (SLULCDP), these are the authorised discharge points and all discharges are monitored via the SCADA network and data is stored in Pi Historian. No unauthorised discharges occurred during the reporting period as per PWC tracking worksheet D2012/66732 PWC conducts surveillance of the treatment train at the Ludmilla Treatment Plant through water quality monitoring and observational assessments. Monitoring includes both licence monitoring (discharge and receiving environment D2018/506618 and the 2019 wastewater monitoring program (Control Document 0420) monitoring that assess operational performance and identify any unauthorised input that may compromise treatment performance.	Compliance Matrix Tracking: D2012/66732	Ongoing	Compliant												

Cond.	No. Condition	How	Evidence PWC CIM Ref No	When (Date)	Status
20.	Discharges from Authorised Discharge Point SLULCDP (150-07) must only occur when average inflow to the WWTP during the discharge period exceeds 900L/sec during wet weather.	The intention of the condition was to only limit the discharges to Ludmilla Creek to periods of high inflow A number of non-compliant discharges via SLULCDP occurred during the reporting period. Discharges when inflow was below 900 L/sec (averaged over the discharge period) occurred on the following dates: 10/01/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 10/01/2020 04/06/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 04/06/2020 05/09/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 07/09/2020 08/10/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 08/10/2020	Notification record <u>D2020/016933</u> <u>D2020/262944</u> <u>D2020/413451</u> <u>D2020/471649</u> Updated <u>D2020/574958</u>	Notification date 10/01/2020 05/06/2020 07/09/2020 09/10/2020	Non-compliant
21.	The licensee must ensure that the discharge from all discharge events at the authorised discharge point does not: 21.1. Contain any floating debris, oil, grease, petroleum hydrocarbon sheen, scum, litter or other objectionable matter;	All field observations including any exceedance of discharge criteria and visual observations regarding qualitative discharge criteria are recorded on field sheets and site notes and are stored in <i>Content Manager</i> container <u>F2011/6237</u>. No floating debris, oil, grease, petroleum hydrocarbon sheen, scum, or litter occurred during the reporting period. A dark/discoloured and potentially objectionable matter occurred in the discharge on several occasions during the reporting period, this is assessed as non-compliance with condition 21.1 of the licence. Notifications listed below: 08/09/2020 Dark plume (abnormal for site was identified during field sampling) 06/10/2020 dark plume reported as persisting during field sampling	Field observations <u>F2011/6237</u> Photographic records <u>F2011/6235</u> Field observations <u>F2011/6237</u> Photographic records <u>F2011/6235</u> <u>D2020/416198</u> <u>D2020/466326</u> <u>F2011/6235</u>	Ongoing Ongoing 08/09/2020 06/10/2020 Ongoing	One qualitative indicator Non-compliant Non-compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
		Monthly photographic records kept of level of gross pollutants at outfall itself in F2011/6235			
	21.2. cause or generate odours which would adversely affect the use of surrounding waters;	No odours or other evidence that the Licensed activity affects the use of surrounding waters.	Field observations F2011/6237 Photographic records F2011/6235	Ongoing	Compliant
	21.3. cause algal blooms in receiving waters	No evidence of secondary responses (algal blooms) in receiving waters.	Field observations F2011/6237 Photographic records F2011/6235	Ongoing	Compliant
	21.4. cause visible change in the behaviour of fish or other aquatic organisms in the receiving water;	No evidence of fish or other aquatic organism behavioural changes.	Field observations F2011/6237 Photographic records F2011/6235	Ongoing	Compliant
	21.5. cause mortality of fish or other aquatic organisms; or	No evidence of mortality events during routine monitoring. No fish kills reported for the discharge impact areas to Department of Fisheries: Fish Kill response line by the public.	Field observations F2011/6237 Photographic records F2011/6235	Ongoing	Compliant
	21.6. cause adverse impacts on plants.	No evidence of adverse impacts on plants has been observed during routine monitoring.	Field observations F2011/6237 Photographic records F2011/6235	Ongoing	Compliant
MONITORING					
22.	The Licensee must conduct surface water monitoring in accordance with Appendix 1:	All monitoring has been conducted as specified in Appendix 1. Not all sample results met all the SSTV triggers and these were reported as per Condition 33. WDL 150 summary data and plots Masterfile for Surface water and discharge monitoring are located in D2018/506618 . Non-compliances occurred as below; 13/11/2018 Ammonia at discharge was above three times SSTV- non-compliance	Summary data and plots Masterfile SSTV D2018/506618 Reported exceedance and non-compliances D2020/428236 D2020/470459	Ongoing Date 15/09/2020 07/09/2020	Non-Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
		30/12/2018 Exceedance rolling mean SSTV for TN, NOx-N, FRP and Enterococci SSTV of 95% percentile was three times the SSTV value.			
23.	The Licensee must conduct sediment monitoring in accordance with Appendix 2.	All sediments monitoring has been conducted as specified in Appendix 2, Ludmilla 150 Sediment Data Summary Masterfile monitoring data on are located in D2017/373394	Sediment Data Summary Masterfile D2017/373394	Ongoing	Compliant
24.	The Licensee must conduct biological monitoring in accordance with Appendix 3	All biological monitoring has been conducted in accordance with Appendix 3. Ecotoxicology: no assessment in the reporting period. Summary data stored in F2014/697 Benthic Infauna: Samples collected May and October 2019 and data report in preparation. Data yet to be received. All data in F2014/697 Summary data and plots Masterfile for algal species for monthly surface water and discharge monitoring are located in D2018/506618	Biota data and plots master file D2017/373387 F2014/697 Benthic Infauna F2014/697 D2018/506618		Compliant
25.	The licensee must ensure that all samples and field environmental data are representative of the conditions at the time of sampling.	The licence compliance monitoring is undertaken within an established program that is only amended in relation to safety. All field observations including weather conditions at the discharge and receiving waters recorded on field sheets and site notes and are stored in <i>Content Manager</i> container F2011/6237 to ensure the results are representative of the conditions at the time of sampling Weather conditions are also summarised in Ludmilla WDL150 Monthly Reporting Limit Exceedance D2018/506618	Field observations D2011/6237 Monthly Reporting Limit Exceedance D2018/506618 TWS Contract D2016/451327	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status																					
		Additionally, Tropical Water Solutions are '...constantly improving sampling techniques and protocols to ensure samples remain uncontaminated and are representative of the situational conditions. D2016/451327																								
26.	The licensee must ensure that all samples and field environmental data are collected in accordance with recognised Australian Standards and guidelines (such as AS/NZS 5667, ANZECC/ARMCANZ).	Tropical Water Solutions have the following accreditations: • ISO 9001:2008 Quality Management Standard D2016/451327 • ISO 14001:2015 Environmental Management Systems D2019/167894 • AS/NZS 4801:2001 - Occupational Health and Safety Management Standard D2016/451327	TWS accreditations D2016/451327 D2019/167894 D2016/451327	Ongoing	Compliant																					
27.	The licensee must ensure that all monitoring samples are analysed at a laboratory with current NATA accreditation or equivalent, for the parameters to be measured.	PWC only uses NATA accredited laboratories for sample analyses. Confirmed by the NATA Accreditation stamp on laboratory results/analysis reports. <table><thead><tr><th>Laboratory</th><th>NATA Accreditation No.</th><th>Content Manager Ref.</th></tr></thead><tbody><tr><td>AWQC</td><td>1115</td><td>D2020/362882</td></tr><tr><td>QLD Health</td><td>41</td><td>D2020/437993</td></tr><tr><td>NTEL</td><td>14610</td><td>D2020/437400</td></tr><tr><td>DPIR</td><td>15104</td><td>D2020/362480</td></tr><tr><td>Eurofins</td><td>1261</td><td>D2020/437924</td></tr><tr><td>ALS</td><td>825</td><td>D2020/267083</td></tr></tbody></table>	Laboratory	NATA Accreditation No.	Content Manager Ref.	AWQC	1115	D2020/362882	QLD Health	41	D2020/437993	NTEL	14610	D2020/437400	DPIR	15104	D2020/362480	Eurofins	1261	D2020/437924	ALS	825	D2020/267083	AWQC D2020/362882 QLD Health D2020/437993 NTEL D2020/437400 DPIR D2020/362480 Eurofins D2020/437924 ALS D2020/267083	Ongoing	Compliant
Laboratory	NATA Accreditation No.	Content Manager Ref.																								
AWQC	1115	D2020/362882																								
QLD Health	41	D2020/437993																								
NTEL	14610	D2020/437400																								
DPIR	15104	D2020/362480																								
Eurofins	1261	D2020/437924																								
ALS	825	D2020/267083																								
28.	The licensee must for all land based monitoring points specified in the Monitoring Plan:	Signage installed and locations clearly identified in sample procedures; access and egress maintained	As below	Ongoing	Compliant																					
	28.1. Install, maintain and provide appropriate identification signage so that they are easily identifiable at all times; and	Signage installed at only onshore monitoring Point SLU080/SLULCDP – notification of signage installation D2012/153355; Site layout drawings clearly identify sample points (PWC Drawing B13-11413. Site notes also provide clear identification of sample site GPS co-ordinates. Signage condition is inspected monthly and recorded on site notes for monitoring program by sampling contractors and are stored in <i>Content Manager</i> container F2011/6237.	Email notification F2011/153355 Field observations F2011/6237 Photographic records F2011/6235	27/3/2012 Ongoing Ongoing	Compliant																					

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
		also photos are taken monthly and saved in folder <u>F2011/6235</u>			
	28.2. Maintain safe access and egress, as is reasonably practicable	Terrestrial sampling points access and egress are inspected monthly and recorded on site notes for monitoring program by sampling contractors and are stored in <i>Content Manager</i> container <u>F2011/6237</u> Land based monitoring point access and egress are safe as is reasonably practicable and fit for purpose. No hazards/risks were recorded for all sites on monthly monitoring, the JSEAs stored on <u>F2011/6237</u>	Field observations & JSEA's <u>F2011/6237</u> Photographic records <u>F2011/6235</u>	Ongoing Ongoing	Compliant
29.	The licensee must ensure that all sample collected in accordance with the Monitoring Plan or in connection with the Licenced activity or this licence, are obtained by, or under the supervision of a qualified sampler	As per monitoring program contract - Tropical Water Solutions must'... ensure that at all times all persons for whom it is responsible or over whom it is capable of exercising control (personnel and sub-contractors) can be considered a Competent Person to either perform the Works themselves or to perform the Works under the direct supervision of a Competent Person. The competency of a person can be determined on the basis of a mix of appropriate education, training, and relevant experience/ skills: • Higher Education in a relevant field from a recognised institution • Vocational Education in a relevant field from a recognised institution • Training records verified by a competent person as satisfactory (may be from an external qualified assessor) • Experience (at least 12 months' work experience that demonstrates the satisfactory application of the skills required to the satisfaction of a Competent Person) The minimum requirements for a Competent Person must be determined by the Contractor based upon the role that has been assigned to them by the Contractor under the Works. <u>D2016/451327</u>	Contract <u>D2016/451327</u>	Ongoing	Compliant
30.	The licensee must ensure that, for each sample collected in accordance	All sample collection information are recorded on field sheets and site notes and are stored in <i>Content Manager</i>		Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	with the Monitoring Plan or the activity the following information must be recorded and retained:	container <u>F2011/6237</u> (Surface Water) and <u>F2014/2663</u> (Sediment)			
	30.1. the date(s) on which the sample was collected;	The date, time and sample point and the name of the person collecting the sample for each sample has been recorded on field sheets and site notes within this Licence Period	Surface Water <u>F2011/6237</u>	Ongoing	Compliant
	30.2. the time(s) at which the sample was collected;		Sediment <u>F2014/2663</u>	Ongoing	Compliant
	30.3. the point(s) at which the sample was collected;		Laboratory analytical reports <u>F2019/2739</u>	Ongoing	Compliant
	30.4. the name of the person who collected the sample;			Ongoing	Compliant
	30.5. the chain of custody forms relating to the sample(s);	COCs for each run are submitted with paperwork for each monitoring run (<u>F2011/6237</u>). Additionally, the confirmation emails from AWQC are stored in <i>Content Manager</i> container for example, <u>F2019/2739</u> upon receipt.		Ongoing	Compliant
	30.6. any field measurements and analytical results relating to the sample; and	Field measurements and analytical results relating to the sample are recorded on field sheets for each site. Data is uploaded to database and stored in <i>Content Manager</i> <u>F2011/6237</u> (Surface Water) and <u>F2014/2663</u> (Sediment). Analytical results also uploaded to database and stored in <i>Content Manager</i> by laboratory/matrix (i.e. AWQC surface water analytical report <u>F2019/2739</u>)		Ongoing	Compliant
	30.7. laboratory quality assurance and quality control documentation (where laboratory analysis is required).	As per Condition 30.6, this includes the results for blind QA/QC duplicate or triplicate sampling undertaken by PWC		Ongoing	Compliant
RECORDING AND REPORTING					

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
31.	The Licensee must keep records of all non-compliances with this Licence. These records must be adequate to enable the licensee to comply with the non-compliance notification conditions of this licence	PWC maintains a Compliance Matrix Tracking sheet stored in <i>Content Manager D2012/66732</i> . All non-compliances are also recorded in Promapp (Event Management Tool/ Database). All compliance related records are stored in a dedicated WDL150 Compliance and Administration container in <i>Content Manager F2006/5056</i>	Compliance Matrix Tracking sheet D2012/66732 Compliance and Administration container F2006/5056	Ongoing	Compliant
32.	The licensee must notify the Administering Agency of any non-compliance with this licence by emailing waste@ont.gov.au , as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.	PWC has notified the Administering Agency within 24 hours after first becoming aware of the non-compliance. There were multiple non-compliances within this Licence Period as a result of an exceedance of a reporting limit; please note that any exceedance of a reporting limit is also consider a non-compliance, as per WDL 150-06 No SSTV exceedances relate to 150-07. All non-compliance notifications to the Administering Agency as soon as practicable and in any case within 24 hours after first becoming aware of the non-compliance. See details in Conditions where non-compliance notifications have been made.	Notification records	Notification date	Compliant
		Condition 20 Non-compliance reporting:: 10/01/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 10/01/2020 04/06/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 04/06/2020 05/09/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 07/09/2020 08/10/2020 discharge to Ludmilla Creek when inflow below 900 L/sec: Identified 08/10/2020	Notification record D2020/016933 D2020/262944 D2020/413451 D2020/471649 Updated D2020/574958	Notification 10/01/2020 05/06/2020 07/09/2020 09/10/2020	
		Condition 21.1 Non-compliance reporting: 08/09/2020 Dark plume (abnormal for site was identified during field sampling 06/10/2020 dark plume reported as persisting during field sampling	Notification record D2020/416198 D2020/466326	Date 08/09/2020 06/10/2020	

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
33.		Condition 34.2 Non-compliance reports 15/09/2020 Exceedance of three times or more of a trigger value specified in Appendix 1 Table 2 07/09/2020 Exceedance of three times or more of a trigger value specified in Appendix 1 Table 2	Notification Report <u>D2018/539081</u> <u>D2020/428236</u> <u>D2020/470459</u>	Date 05/12/2019 15/09/2020 07/09/2020	
		Condition 37&38 Non-compliance reports 13/12/2019 Late submission of Annual Reporting requirements due to delayed sign off of Annual Return by Chief Executive	<u>D2019/582292</u>	13/12/2019	
	The Licensee must include in the notification of non-compliance the following information:	PWC has included in the notification to the Administering Agency all the required information of the non-compliance.	All non-compliance notifications included the information as identified in Conditions 33.1 to 33.8, see individual records as listed above.	Ongoing	Compliant
	33.1. when the non-compliance was detected and by whom;	The date and the name of the person that became aware of the non-compliance has been reported within the email notification to the Administering Agency .			Compliant
	33.2. the date and time of the non-compliance;	The date and time of the non-compliance has been reported within the email notification to the Administering Agency			Compliant
	33.3. the actual and potential causes and contributing factors to the non-compliance;	The potential causes and contributing factors of the non-compliance has been reported within the email notification to the Administering Agency			Compliant
	33.4. the risk of environmental harm arising from the non-compliance;	The risk of environmental harm arising from the non-compliance have been assessed against the specific guidelines for example ANZECC and/or DHWQO and possible effects in the marine life			Compliant
	33.5. the action(s) that have or will be undertaken to mitigate any environmental harm arising from the non-compliance;	The action that were taken to mitigate any environmental harm arising from the non-compliance, when applicable.			Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	33.6. corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur	Notifications included any corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur			Compliant
	33.7. if no action was taken, why no action was taken; and	Where no action was taken the reports outlined why no action was taken			Compliant
	33.8. a date when and incident investigation report will be submitted to the Administering Agency.	Where a further investigation report was to be provided a date by which the report would be provided to the Administering Agency was advised			Compliant
34.	WDL150-07 A non-compliance with this licence includes:	No non-compliances with Condition 34 occurred during the reporting period			Compliant
	34.1 an exceedance of a trigger value, as specified in Appendix 1 Table 2, on three consecutive sampling occasions	No triggers were exceeded on 3 consecutive occasions	WDL 150 summary data and plots Masterfile for Surface water and discharge monitoring are located in D2018/506618	Ongoing	Compliant
	34.2 an exceedance of three times or more of a trigger value specified in Appendix 1 Table 2.	15/09/2020 Exceedance of three times or more of a trigger value specified in Appendix 1 Table 2 07/09/2020 Exceedance of three times or more of a trigger value specified in Appendix 1 Table 2	D2020/428236 D2020/470459	15/09/2020 07/09/2020	Non - Compliant
35.	34.3. an exceedance of a licence limit as specified in Appendix 1 Table 2.	No licence limits were exceeded	WDL 150 summary data and plots Masterfile for Surface water and discharge monitoring are located in D2018/506618	Ongoing	Compliant
	The licensee must keep records of all exceedances of a trigger value as specified in Appendix 1 Table 2. These records must be adequate to enable the licensee to comply with the	WDL 150 summary data and plots Masterfile for Surface water and discharge monitoring are located in D2018/506618 the data summary clearly identifies all	Summary data and plots Masterfile	Ongoing	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	exceedance notification conditions of this licence.	exceedances to enable PWC to comply with the exceedance notification provisions of this licence.	D2018/506618		
36.	The licensee must provide to the Administering Agency annual monitoring reports prepared in accordance with the Environment Protection and Biodiversity Conservation Act Referral 2009/5113 as outlined in Appendix 3.	2019 Report (D2020/484931) approved by the Independent Technical assessor and provided to the Compliance Section of the Commonwealth Department of Environment provided to the NT Administering Agency	Submission notification D2020/564514	01/12/2020	Compliant
37.	The Licensee must submit a completed Annual Return by emailing waste@nt.gov.au , within 30 business days after each anniversary date of this licence, which report relates to the preceding 12 months period.	2019 Annual Return not submitted by the due date 12/12/2019.	D2019/582292	13/12/2019	Non - Compliant
38.	The licensee must complete and provide to the Administering Authority a Monitoring Report, as prescribed by this licence, within 30 Business days after the anniversary date of this licence by emailing waste@nt.gov.com .	2019 Monitoring Report not submitted by the due date 12/12/2019.	D2019/582292	13/12/2019	Non - Compliant
39.	The licensee must ensure that each Monitoring Report:	Monitoring report development commenced during reporting period; submission not due until after reporting period.	2020 Monitoring Report D2020/518242	2019 Monitoring Report will be submitted within 30 business days after the anniversary date	Compliant
	39.1. is prepared in accordance with the requirements of the Administering Agency 'Guideline for Reporting on Environmental Monitoring';	Monitoring Report has been prepared in accordance with each section of NT EPA 'Guideline for Reporting on Environmental Monitoring' from May 2016 Version 1.0	2020 Monitoring Report D2020/518242		Compliant
	39.2. includes a tabulation of all monitoring data required as a condition of this licence;	Tabulation of all monitoring data has been included in this report in accordance with the condition.	2020 Monitoring Report D2020/518242		Compliant
	39.3. includes long-term trend analysis of monitoring data to demonstrate any environmental impact associated with the Licenced activity over a minimum period of	Long-term trend analysis of monitoring data has been included in this report in accordance with the condition.	2020 Monitoring Report D2020/518242		Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
	three years (where the data is available);				
	39.4. Provides an assessment against the annual report reporting criteria notes in Appendix 1 Table 2.	An assessment against the annual reporting criteria notes in Appendix 1 Table 2 has been included in this report in accordance with the condition.	2019 Monitoring Report D2019/421228		Compliant
	39.5. Includes and assessment of environmental impacts from the Activity	Environmental Impact Assessment has been included in this report in accordance with the condition.	2019 Monitoring Report D2019/421228		Compliant
	39.6 Reports on progress of the Ludmilla Wastewater Treatment Plant WDL150-05 Improvement Plan 2017	The 2019 Ludmilla Waste Water Treatment Plant Improvement Plan progress has been included in this report in accordance with the condition.	2019 Monitoring Report D2019/421228		Compliant
	39.7 Includes a summary of the licence limit (site specific trigger value) exceedances that have occurred during the reporting period	A tabulated summary of exceedances has been included in this report in accordance with the condition for this Licence Reporting Period.	2019 Monitoring Report D2019/421228		Compliant
	39.8 Reports on annual loads discharged from SLu080 as per Appendix 1.	A tabulated summary of annual discharge loads from SLu080 has been included in this report in accordance with the condition for this Licence Reporting Period	2019 Monitoring Report D2019/421228		Compliant
PERFORMANCE IMPROVEMENT					
40.	The Licensee must progress, implement and comply with the actions identified in the Ludmilla Wastewater Treatment Plant WDL150-05 Improvement Plan 2017	PWC continues to progress implementation of actions in WDL150-05 Improvement Plan 2017, progress reported in 2018 Licence Report D2018/414082 and D2019/421228 A new Improvement Plan WDL150-07 was prepared and submitted in June 2019 and implementation of actions from both plans is ongoing (reported in Annual Licence Report D2020/518242).	Evidence D2020/518242	ongoing	Compliant
41.	The Licensee must submit an updated Ludmilla Wastewater Treatment Plant WDL150-05 Improvement Plan by 30 June 2019	WDL150-05 (D2017/488878) Improvement Plan was updated and submitted to the Administering Agency as WDL150-06 Improvement Plan 2019 (D2019/231281) on 28/06/2019	Submission record D2019/310374 28/06/2019	Not required this reporting period	NA
42.	The updated Performance Improvement Plan must include:	The updated Performance Improvement Plan (D2019/231281) includes actions to progress against 42.1 and 42.2	Evidence 2019 Performance	Not required this reporting period	NA

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
			Improvement Plan D2019/231281 28/06/2019		
	42.1. actions that will be taken towards achieving the full design capacity of 1000 L/sec for the East Point Rising Main to reduce the likelihood of discharges to Ludmilla Creek; and	The updated plan includes actions to progress towards achieving the 1000 L/sec design capacity of the East Point rising main D2020/376016 . All actions have been implemented and the treatment plant is now capable of meeting design capacity of 1000l/s.	Evidence 2019 Performance Improvement Plan D2020/376016	17/08/2020	Compliant
	42.2. Detailing reasonable and practicable measures the licensee will undertake to improve the discharge water quality and/or discharge location in order to achieve the water quality objectives for Darwin Harbour, insofar as background water quality (i.e. water quality that would prevail in the absence of any discharge from the Ludmilla Wastewater Treatment) allows.	The Performance Improvement plan includes actions to further improve the discharge quality as relocation of the outfall is not currently budgeted within the NT Government budget	Evidence 2019 Performance Improvement Plan D2019/231281 28/06/2020	Not required this reporting period	NA
43.	The licensee must submit with the next licence renewal a plan to finish achieving the full design capacity of 1000 L/sec for the East Point Rising Main	Not Submitted with licence application D2020/376016	D2020/376016	17/08/2020	Compliant
44.	The Licensee must update Waste Discharge licence 150-05 Ludmilla Wastewater Treatment Plant Management Goals: Ludmilla WwTP discharge June 2017 to reflect the conditions of this Licence	The management Goals were updated in accordance with condition 44 and submitted to the Administering Agency	Updated document D2019/231299	28/06/2019	Compliant
45.	The Licensee must submit the updated Waste Discharge Licence 150-05 Ludmilla Wastewater Treatment Plant Management Goals: Ludmilla WwTP discharge by 30 June 2019	The updated Management Goals 2019 D2019/231299 was submitted prior to 30 June 2019	Submission notification D2019/310374	28/06/2018	Compliant

Cond.	No. Condition	How	Evidence PWC CM Ref No	When (Date)	Status
46.	Condition 44 WDL150-06 The Licensee must update the Environmental Risk Assessment by 1 November 2019 including updates to impacts of pathogens on the receiving environment.	Environmental risk assessment 2017 updated by 1 November 2019 (D2019/418906). In accordance with Condition 9 the updated Risk Assessment, prepared by 1 November 2019 was provided to Administering Agency within 10 Business Days of amendment The updated risk assessment included an update of impacts of pathogens (arising from the discharge) on the receiving environment.	Submission Record D2019/515969 1/22/2019	Not required this reporting period	NA
END OF LICENCE CONDITIONS					

3 Summaries

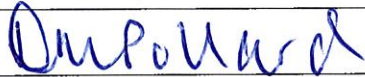
Complaints Recording

Number of complaints recorded by the licensee during the reporting period (as required by Condition 12 and 13 of the Licence)	Zero complaints occurred associated with licensed activity <u>D2020/480170</u>
Summary of Complaints	N/A
Summary of Outcomes	N/A

Notification of potential or actual environmental harm or pollution

Number of events recorded by the Licensee during the reporting period (complying with the Water Act and all applicable laws- in this case Section 14 of the Waste Management and Pollution Control Act).	Zero
Summary of Events	N/A
Summary of Outcomes	N/A

Signature and Certification

This declaration must only be signed by a person(s) with the legal authority to sign it. The ways in which the application may be signed, and the people who may sign the application, are set out in the categories below.		
If the licence holder is:	Tick	The application must be signed and certified by one of the following:
An individual	☐	The individual.
A partnership	☐	A partner.
A company	☐	The common seal being affixed in accordance with the <i>Corporations Act</i> , or
	☐	Two directors, or
	☐	A director and a company secretary, or
	☐	If a proprietary company that has a sole director who is also the sole company secretary – by that director.
A public authority	☒	The Chief Executive or
	☐	By a person delegated to sign on the public authority's behalf in accordance with its legislation (Please note: a copy of the relevant instrument of delegation must be attached to this application).
I hereby declare that the information provided in this Annual Audit and Compliance Report and accompanying documents is to the best of my/our knowledge, true and correct.		
Signature		
Name (printed)	Djuna Pollard	
Position	Chief Executive Office	
Date	16 / 12 / 2020	
Seal (if signing under seal):		