



Northern  
Territory  
Government

## WASTE DISCHARGE LICENCE

(Pursuant to section 74 of the *Water Act*)

### Licence Details

Licence Number: **WDL151-06**  
Commencement Date: 04 January 2017  
Expiry Date: 10 December 2019

### Licensee Details

Legal Entity Name: Power and Water Corporation  
ABN: 15 947 352 360  
ACN:  
Registered Business Address: Level 2 Mitchell Centre  
Mitchell Street Darwin NT 0800

Postal Address: PO Box 37471  
WINNELLIE NT 0821

Contact Person: Water Services Executive Group  
Contact Details:

b/h: 08 8985 7123  
mobile: 0401 117 644  
email: [waterservicesexecutive@powerwater.com.au](mailto:waterservicesexecutive@powerwater.com.au)  
fax: 08 8924 5121

### Location of Premises

Name: Katherine Waste Water Treatment Plant  
Address: Lot 5764 and 1472  
Victoria Highway  
KATHERINE NT 0850

Telephone Numbers:  
b/h: 08 8985 7108  
fax: 08 8924 5121

### 24 hour emergency response

Contact Person: Power and Water Corporation Emergency Response Line  
Telephone Numbers: 1800 245 090

### Licensed Activity

Discharge of wastewater from Katherine Waste Water Treatment Plant (WWTP) to Katherine River subject to the Licence Conditions.

# WASTE DISCHARGE LICENCE (WDL 151-06)

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## WASTE DISCHARGE LICENCE (WDL 151-06)

### INFORMATION ABOUT THIS LICENCE

#### Definitions of Terms

A section on the definition of terms used in this Licence can be found at the end of this Licence.

Terms used in the waste discharge licence which are defined in the *Water Act* (the Act) have the meaning given in that Act unless specifically indicated otherwise.

#### Responsibilities of Licensee

It is an offence under the *Water Act*, if the holder of a waste discharge licence contravenes or fails to comply with the conditions of a waste discharge licence.

In addition to the conditions set out in this Licence, general responsibilities of Licensees are set out in the *Waste Management and Pollution Control Act* and associated Regulations and the *Water Act*.

Licensees must comply at all times with the requirements of these Acts and all other applicable laws.

Except as expressly provided for in this Licence, the Licensee must not cause:

- environmental harm either directly or indirectly;
- waste to come into contact with water; or
- water to be polluted.

Without limiting the conditions of this Licence, in conducting the Activity, the Licensee must do all things reasonable and practicable to:

- prevent or minimise the likelihood of pollution occurring as a result of, or in connection with, the Activity;
- prevent or minimise the likelihood of environmental harm occurring as a result of, or in connection with, the Activity;
- effectively respond to pollution and the risk of pollution occurring as a result of, or in connection with, the Activity;
- effectively respond to environmental harm and the risk of environmental harm occurring as a result of or in connection with the Activity; and
- as far as practicable:
  - avoid and reduce waste produced as a result of, or in connection with the Activity;
  - increase the re-use and recycling of waste;
  - effectively manage waste disposal; and
- apply the principles of ecologically sustainable development.

#### Duration of Licence

This Licence will remain in force until its expiry date, unless it is surrendered by the Licensee or until it is suspended or revoked by the Controller.

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### **Amendment, Modification or Revocation of Licence (section 93 of the Water Act.)**

The Controller of Water Resources may, by notice:

- amend or modify the terms and conditions of a licence;
- revoke a licence; or
- suspend a licence

### **Public Register (section 95 of the *Water Act*)**

A copy of this Licence will be placed on a register in accordance with section 95 of the *Water Act*.

The register is publicly available for viewing on the Department's website.

A copy of the Annual Audit and Compliance Report will also be placed on the register.

### **Supporting Guidelines and Documents**

This Licence has been developed based on the information provided by the Licensee in the following documentation:

- Application for Waste Discharge Licence, dated 1 December 2016;
- *AUSRIVAS Monitoring, Katherine River, Treated Effluent Discharge Site*, Tropical Water Solutions, June 2011 and September 2012;
- Waste Discharge Licence 151 Desktop Environmental Risk Assessment and Supplement – Katherine Wastewater Treatment Plant V2.0 dated September 2016.

### **Environment Protection Objectives (Part 4 of the WMPCA) and Beneficial Use Declaration (section 73 of the Water Act)**

An Environment Protection Objective (EPO) is a statutory instrument to establish principles on which:

- a) environmental quality is to be maintained, enhanced, managed or protected;
- b) pollution, or environmental harm resulting from pollution, is to be assessed, prevented, reduced, controlled, rectified or cleaned up; and
- c) effective water management is to be implemented or evaluated.

In accordance with section 18 of the Act a beneficial use, quality standard, criteria or objective declared under section 73 of the *Water Act* and in force is an environment protection objective for the purposes of the WMPCA.

Beneficial Use Declaration (BUD) is a legislated process that reduces the effects of water pollution and assists in the protection and management of water. The community decides how a particular water body should be used by choosing on one or more Beneficial Use categories.

The following EPOs and BUDs are relevant to this Licence:

- Declaration of Beneficial Uses and Objectives, Katherine River, Northern Territory Government Gazette No. G9, 5 March 1997. Aquatic Ecosystem Protection, Recreational Water Quality and Aesthetics, and Agriculture Water Use.
- Declaration of Beneficial Uses and Quality Standards of Groundwater, Katherine Area, Northern Territory Government Gazette No. G22, 9 June 1999.

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**LICENCE CONDITIONS**

**ADMINISTRATIVE**

1. The Licensee must notify the Administering Agency within 24 hours if there are changes to the details of the 24-hour emergency contact as provided on page one of this Licence.
2. The Licensee must notify the Administering Agency within 14 days if there are changes to the Licensee details shown on page one of this Licence.
3. The Licensee must notify the Administering Agency within 14 days after ceasing to conduct the activity to which this Licence relates.
4. 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, environmental nuisance, material environmental harm or serious environmental harm.
5. The Licensee must cause a copy of this Licence to be available at all times:
  - 5.1. on the Licensee's Australian website; and
  - 5.2. at the Location.
6. Where this Licence requires the provision of any notice, document or other correspondence to the Administering Agency, the relevant contact is:

Environment Division

Physical Address: Level 1, Arnhemica House, 16 Parap Road, Parap NT 0820

Postal Address: GPO Box 3675, Darwin NT 0801

Email: [pollution@nt.gov.au](mailto:pollution@nt.gov.au)
7. All notices, documents or other correspondence required to be provided pursuant to this Licence must be provided in electronic form unless otherwise specified as a condition of this Licence.

**OPERATIONAL**

8. 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:
  - 8.1. Katherine River; and
  - 8.2. Katherine Area.

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9. The Licensee must maintain and implement a communication plan which includes a strategy for communicating with members of the public who are likely to have a real interest in or be affected by the Activity.
10. The Licensee must maintain a log of each complaint, made in relation to the Activity, to any persons involved in the Activity. The log must include details of the following:
  - 10.1. the date and time of the complaint;
  - 10.2. the contact details of the complainant if known, or where no details are provided a note to that effect;
  - 10.3. the nature of the complaint;
  - 10.4. the nature of events giving rise to the complaint;
  - 10.5. prevailing weather conditions at the time of the event giving rise to the complaint;
  - 10.6. the action taken in relation to the complaint, including any follow-up contact with the complainant; and
  - 10.7. if no action was taken, why no action was taken.

### DISCHARGES AND EMISSIONS

11. This licence authorises wastewater to be discharged from the authorised discharge point identified in Table 1 and shown in Attachment 1.

<b>Authorised Discharge Point</b>	<b>Description</b>	<b>Location (GDA94, Zone 53)</b>
Katherine Discharge Pipe	Katherine WWTP final discharge to outfall at Katherine River	Latitude: -14.504548 Longitude: 132.229728

12. Discharges from the Authorised Discharge Point must only occur when Katherine River at Gauging Station G8140001 is at a minimum flow of 66.7kL/s.
13. Wastewater(s) discharged from the authorised discharge points in Table 1 must not:
  - 13.1. contain floating oil and grease or petroleum hydrocarbon sheen or scum, or litter or other objectionable matter;
  - 13.2. cause or generate odours which would adversely affect the use of surrounding waters;
  - 13.3. cause algal blooms;
  - 13.4. cause visible change in the behaviour of fish or other aquatic organisms;
  - 13.5. cause mortality of fish or other aquatic organisms; or
  - 13.6. cause adverse impacts on plants.

### MONITORING

14. The licensee must for all terrestrial sampling locations required by this Licence:
  - 14.1. install, maintain and provide appropriate identification signage so that they are easily identifiable at all times; and
  - 14.2. maintain safe access and egress, as is reasonably practicable.

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15. For each sample required to be collected by this Licence the following information must be recorded and retained:
  - 15.1. the date(s) on which the sample was taken;
  - 15.2. the time(s) at which the sample was collected;
  - 15.3. the point(s) at which the sample was taken;
  - 15.4. the name of the person who collected the sample;
  - 15.5. the chain of custody forms relating to the sample(s);
  - 15.6. the field measurements and/or analytical results for the sample; and
  - 15.7. laboratory QA/QC documentation.
16. Discharge wastewater monitoring must be conducted in accordance with Appendix 1

### RECORDING AND REPORTING

17. All records required to be kept by this Licence must be in a legible format.
18. The Licensee must keep records of all non-compliances with this Licence.
19. The Licensee must notify the Administering Agency of non-compliance(s) with this Licence as soon as practicable and in any case within 5 Business Days after becoming aware of the non-compliance(s).
20. The Licensee must immediately and in any case within 24 hours notify the Administering Agency of any potential or actual environmental harm or pollution by contacting the Pollution Hotline on telephone number 1800 064 567 and emailing [pollution@nt.gov.au](mailto:pollution@nt.gov.au).
21. The Licensee must comply with the requirements of section 14 of the *Waste Management and Pollution Control Act*.
22. The Licensee must complete an Annual Return in the approved form and submit to the Administering Agency a minimum of 20 Business Days prior to the anniversary of the commencement date of this Licence, for each year of this Licence.
23. The Licensee must provide to the Administering Agency by 31 October for each year of the Licence period a Monitoring Report. The Monitoring Report must include:
  - 23.1. river height and flow telemetry at GS 8140001;
  - 23.2. volume of wastewater discharge at Ska100; and
  - 23.3. actions undertaken in accordance with the Improvement Plan developed in accordance with Condition 25 of this Licence.
24. The Licensee must provide to the Administering Agency a minimum of 60 Business Days prior to the expiry date of this Licence:
  - 24.1. an update of the conceptual site model with the data collected during this Licence period;
  - 24.2. an update of the desktop environmental risk assessment with the data collected during this Licence period;

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### PERFORMANCE IMPROVEMENT

25. The Licensee must submit an improvement plan detailing reasonable and practicable measures the Licensee will undertake to minimise the impact of the activity on the Beneficial Uses of the Katherine River and Katherine Area groundwater.
- 25.1. The Licensee must submit the improvement plan by 3 January 2018.
- 25.2. The Administering Agency may require the licensee to amend and/or resubmit the improvement plan.
- 25.3. The Licensee must commence implementation of the improvement plan not more than 28 calendar days after submitting the plan to the administering agency.

### END OF LICENCE CONDITIONS

This Licence is not valid unless signed below:



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Jo Townsend

Controller of Water Resources

Dated the 21 / 12 / 2016

### END NOTES

This Licence supersedes WDL 151-05 that was issued on 3 January 2015.



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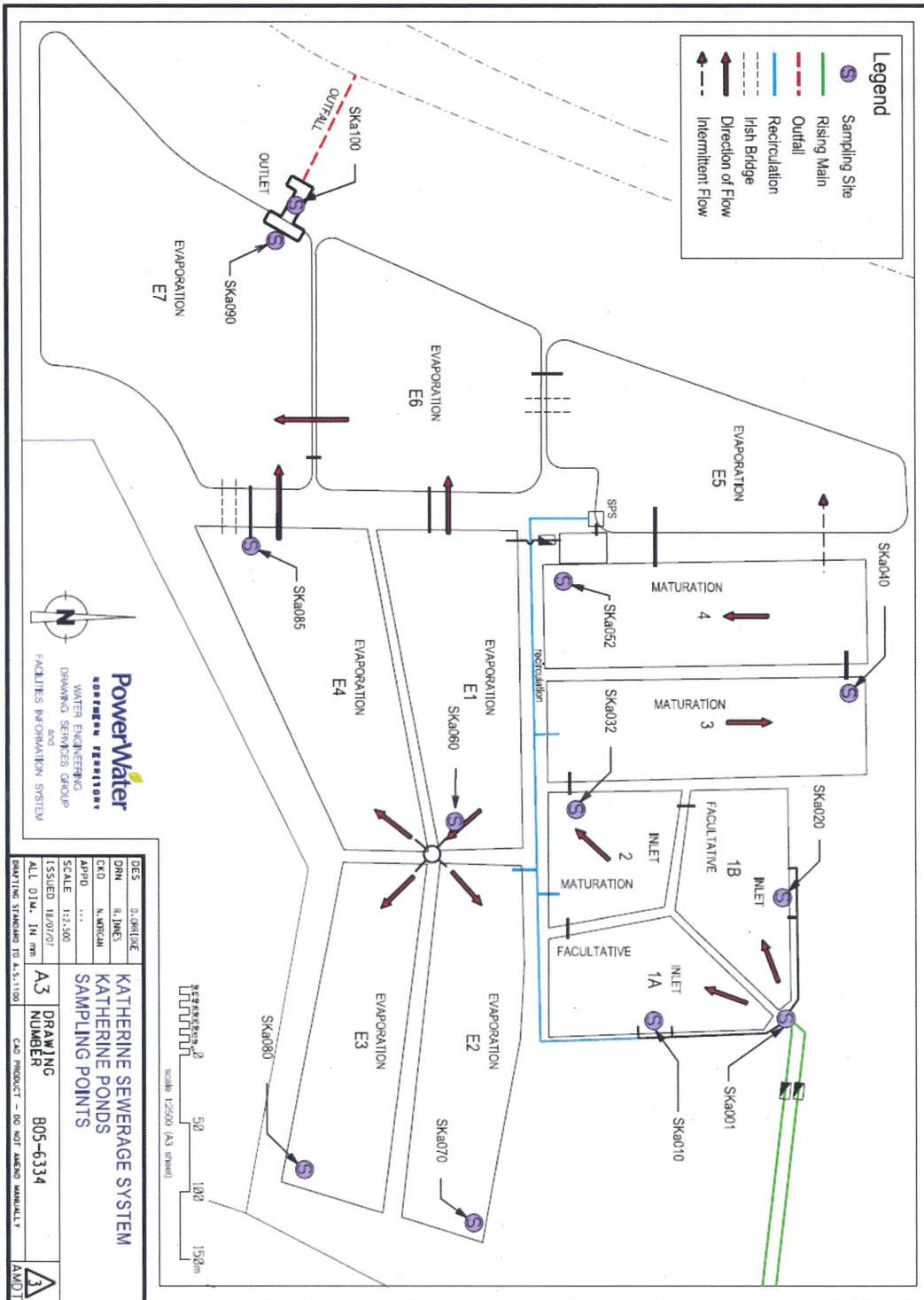
### DEFINITIONS

All terms in the Licence which are defined in the *Water Act* have the meaning given in that Act unless otherwise or further defined in this section.

'Act'	means the Northern Territory of Australia <i>Water Act</i> .
'Activity'	means the activity licensed under this Licence described as Licensed activity on page 1 of this Licence.
'Administering Agency'	means the Department of Environment and Natural Resources
'Business Day'	means a day not Saturday, Sunday or a public holiday in Katherine, Northern Territory.
'Beneficial Use'	means the uses of water specified in subsection (3) of the <i>Water Act</i> .
'Controller of Water Resources' or 'the Controller'	has the meaning described in section 4 of the Act.
'Delegate'	is a person who has been delegated powers by the Minister or Controller of Water by an instrument in writing.
'Environmental nuisance'	has the meaning described in the <i>Waste Management and Pollution Control Act</i> .
'Incident'	has the meaning described in section 14 of the <i>Waste Management and Pollution Control Act</i> .
'Licence'	means a Licence granted and in force under the Act.
'Location'	is the Location of Premises as described on page 1 of this Licence.
'Operational Change'	means any change to normal operational processes or procedures, as updated from time to time.
'Records'	any written information as requested as a condition of this Licence. Any logs, registers or other documents.
'WMPC Regulations'	means the <i>Waste Management and Pollution Control (Administration) Regulations</i> of the Northern Territory
'WMPCA'	means the <i>Waste Management and Pollution Control Act</i> of the Northern Territory.

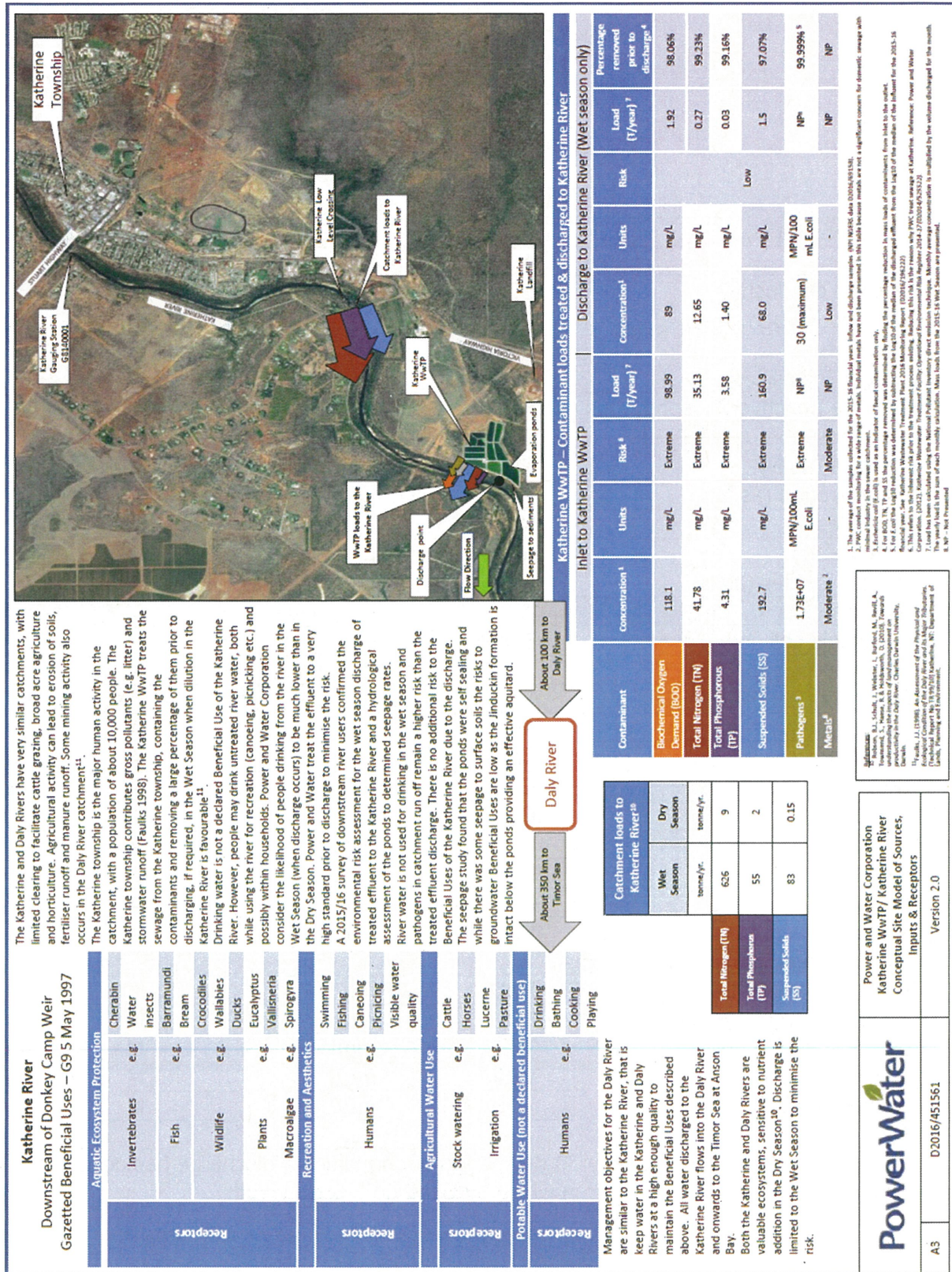
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## Attachment 1 Location of Authorised Discharge Point





Attachment 2 : Site Conceptual model





**WASTE DISCHARGE LICENCE (WDL 151-06)**

**Appendix 1 Discharge Monitoring**

		Sample location	
		Location	
		Site Code	Ska100
		Latitude	-14.504548
		Longitude	132.229728
Location GDA94 Zone 53	Abbreviation	Units	Frequency
<b>Field characteristics</b>			
pH	pH	pH units	M
Electrical conductivity	EC	µS/cm	M
Dissolved oxygen	DO	% saturation	M
Temperature	T	°C	M
<b>Nutrient Indicators</b>			
Filterable Reactive Phosphorous	FRP	µg/L	M
Total Phosphorous (as P)	TP	µg/L	M
Ammonia (as N)	NH3-N	µg/L	M
Total Nitrogen (as N)	TN	µg/L	M
Nitrate (as N)	NO <sub>3</sub>	µg/L	M
Nitrite (as N)	NO <sub>2</sub>	µg/L	M
Nitrogen Oxides (as N)	NO <sub>x</sub>	µg/L	M
<b>Bacteriological</b>			
Escherichia coli	E. coli	MPN/100 mL	M
Enterococcus spp		MPN/100 mL	M
<b>Metals and Metalloids</b>			
Arsenic	As	µg/L	A
Cadmium	Cd	µg/L	A
Chromium	Cr	µg/L	A
Copper	Cu	µg/L	A
Nickel	Ni	µg/L	A
Lead	Pb	µg/L	A
Zinc	Zn	µg/L	A
Mercury	Hg	µg/L	A
<b>Environmental Indicators</b>			
Biological Oxygen Demand	BOD <sub>5</sub>	mg/L	M
Chemical Oxygen Demand	COD	mg/L	M
Total Suspended Solids	TSS	mg/L	M
Volatile Suspended Solids	VSS	mg/L	M
Hardness CaCO <sub>3</sub>		mg/L	M
<b>Key</b>			
M: Monthly at least once per any 30 day period during which a discharge has occurred			
A: Annual at least once per year in which a discharge has occurred			