



Northern
Territory
Government

WASTE DISCHARGE LICENCE

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

Licensee	JKC Australia LNG Pty Ltd
Licence Number	WDL 192-4
Registered Business Address:	Level 50, 108 St Georges Terrace PERTH WA 6000
ACN:	154 383 409
ABN:	14 154 383 409
Postal Address:	GPO Box 2079 DARWIN NT 0801
Location of Premises	Ichthys LNG, Bladin Point
Premises Address:	144 Wickham Point Road WICKHAM POINT NT
Anniversary Date:	1 August
Commencement Date:	1 August 2013
Renewal Date:	20 December 2018 -
Expiry Date:	31 December 2019
Licensed Activity	Discharge of treated wastewater from the Bladin Point Ichthys LNG temporary wastewater treatment plant to Darwin Harbour subject to this licence.

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INFORMATION ABOUT THIS LICENCE

Duration of licence

- This licence will remain in force until its expiry date, it is surrendered by the licensee, or until it is suspended or revoked by the Controller of Water Resources.
- The licensee must notify the administering agency within 14 days after ceasing to conduct the activity.
- The licensee may surrender the licence to the administering agency.

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

- As set out in 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

- A copy of waste discharge licences and any plans for environmental management, reports, submissions or documents required as a condition of a waste discharge licence, will be placed on a register.
- A copy of the Annual Return will be placed on the register.
- The administering agency makes this register freely available from the administering agency website.

Environmental Interests

- This section highlights the beneficial uses as declared under the *Water Act* and the sensitivity of the surrounding land use and environment associated with the location of the approved activity.
 - Declared beneficial uses and or water quality objectives are:
 - Darwin Harbour Region (Northern Territory of Australia *Water Act* Declaration of Beneficial Uses and Objectives Darwin Harbour Region, 29 June 2010)
 - Sites of Conservation Significance (SOCS)
 - Darwin Harbour (SOCS 6)

Cultural Interests

- It is the licensee's responsibility to contact the Aboriginal Areas Protection Authority, appropriate land council or other governing body and ensure that any Authority Certificates required as a result of conducting the licenced activity are obtained and complied with.

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RULES FOR INTERPRETING THE CONDITIONS OF THIS LICENCE

- Where there is a discrepancy between the conditions of this licence and any plan, standard, guideline or other document referred to in this licence, the conditions of this licence prevail to the extent of the inconsistency.
- Any reference to any standard (Australian or international) in this licence means the relevant parts of the current version of that standard.
- A reference to any guideline or code of practice (or to the relevant parts of any guideline or code of practice) in this licence means the current version of the guideline or code of practice.
- Under section 76 of the *Water Act*, any contravention of or failure to comply with this licence by the licensee may be an offence.
- In this licence, unless the contrary intention appears, words that are defined in the *Water Act* are intended to have the meaning given to them in that Act.

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LICENCE CONDITIONS

GENERAL

1. The licensee must ensure the licensee and emergency contact details recorded with the administering agency for this licence are correct at all times.
2. The licensee must at all times have a 24 hour emergency contact.
3. The licensee must notify the administering agency within 24 hours if there are changes to the licensee or emergency contact details recorded with the administering agency.
4. The licensee must notify the administering agency within 14 days after ceasing to conduct the activity to which this licence relates.
5. 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.
6. The licensee must cause a copy of this licence to be available for inspection by any person, in hard copy form, at the premises.
7. The licensee must provide to the administering 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 administering agency.
8. All notices, reports, documents or other correspondence required to be provided as a condition of this licence, unless otherwise specified as a condition of this licence, must be provided in electronic form by emailing waste@nt.gov.au.
9. The licensee must, for the duration of this licence, implement, maintain and follow a Consultation and Communication Plan which includes a strategy for communicating with persons who are likely to have a real interest in, or be affected by, the activity.
10. The licensee must operate and maintain a community feedback number.
11. The licensee must display the community feedback number:
 - 11.1. where the licensee has a website, in a prominent location on the licensee's website;
 - 11.2. in the Consultation and Communication Plan; and
 - 11.3. in other publicly available documents relating to the activity.
12. The licensee must maintain a Complaint Log for all complaints received by the licensee in relation to the activity.
13. The licensee must ensure that the Complaint Log includes, for each complaint received by the licensee, the following information:
 - 13.1. the person to whom the complaint was made;
 - 13.2. the person responsible for managing the complaint;
 - 13.3. the date and time the complaint was reported;
 - 13.4. the date and time of the event(s) that led to the complaint;
 - 13.5. the contact details of the complainant if known, or where no details are provided a note to that effect;
 - 13.6. the nature of the complaint;
 - 13.7. the nature of event(s) giving rise to the complaint;
 - 13.8. prevailing weather conditions at the time (where relevant to the complaint)

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13.9. the action taken in relation to the complaint, including any follow-up contact with the complainant; and

13.10. if no action was taken, why no action was taken.

14. The licensee must implement, maintain and follow an Emergency Response Plan that addresses procedures for responding to emergencies associated with the activity that may cause environmental harm.

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 administering agency prior to the licensee surrendering the licence. If the date on which a report, record or other information is required falls after 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 the Darwin Harbour Region.
17. The licensee must ensure any plant and equipment used by the licensee in conducting the activity:
- 17.1. is reasonably fit for the purpose and use to which it is put; and
 - 17.2. is maintained.

DISCHARGES

Discharges to water

18. This licence authorises discharge to water from the authorised discharge point(s) as identified in Table 2 and Appendix 1, and as otherwise allowed in accordance with the conditions of this licence.

Table 2: Authorised Discharge Point

Name	Description	Location	Discharge Source
Outfall Diffuser	Deepwater location within East Arm (Elizabeth River) along an eastward alignment from the STP.	- 12.52499 130.93404	Treated wastewater from the Bladin Point Ichthys LNG temporary wastewater treatment plant.

19. The licensee must ensure that all discharge events at each authorised discharge point consist only of waste from the source(s) as specified in Table 2.
20. The licensee must, for each authorised discharge point, install, operate and maintain a device to measure and record, for each 24 hour period:
- 20.1. the average flow rate of discharge; and
 - 20.2. the discharge volume.

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21. The licensee must ensure that the discharge from all discharge events at the authorised discharge point does not exceed the reporting limits specified for STPM-T1 in Appendix 2.
22. The licensee must ensure that the discharge from all discharge events at each authorised discharge point does not:
 - 22.1. contain any floating debris, oil, grease, petroleum hydrocarbon sheen, scum, litter or other objectionable matter;
 - 22.2. cause or generate odours which would adversely affect the use of surrounding waters;
 - 22.3. cause algal blooms in the receiving water;
 - 22.4. cause visible change in the behaviour of fish or other aquatic organisms in the receiving water;
 - 22.5. cause mortality of fish or other aquatic organisms; or
 - 22.6. cause adverse impacts on plants.
23. The licensee must ensure the discharge from the authorised discharge point does not cause the median value of the water quality parameters measured at the mixing zone monitoring sites specified in Appendix 1 to exceed the water quality trigger for any of the water quality parameters specified in Appendix 2:
 - 23.1. on three consecutive occasions, and the exceedance is also not present at the upstream site determined from the tide phase at the time of sampling, on the same three consecutive occasions; or
 - 23.2. a single occasion where the measured value exceeds the trigger value greater than or equal to two times the trigger value and the exceedance is not also present at the upstream site, determined from the tide phase at the time of sampling.

MONITORING

24. The licensee must conduct surface water monitoring in accordance with Appendix 1.
25. The licensee must ensure that all samples and field environmental data are representative of the conditions at the time of sampling.
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)
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.
28. The licensee must implement, maintain and follow the monitoring program included in Appendix 1 from the commencement date of this licence.

For the purposes of this condition, the word "land" does not include water [or air] on or above land.
29. The licensee must for all land based monitoring points specified in Appendix 1:
 - 29.1. install and maintain appropriate identification signage so that they are reasonably identifiable at all times; and
 - 29.2. maintain safe access and egress, as is reasonably practicable.

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30. The licensee must ensure any samples collected in accordance with Appendix 1 or in connection with the activity or this licence, are obtained by, or under the supervision of a qualified sampler.
31. The licensee must ensure that, for each sample collected in accordance with the Appendix 1 or the activity the following information must be recorded and retained:
 - 31.1. the date on which the sample was collected;
 - 31.2. the time at which the sample was collected;
 - 31.3. the location at which the sample was collected;
 - 31.4. the name of the person who collected the sample;
 - 31.5. the chain of custody forms relating to the sample;
 - 31.6. the field measurements relating to the sample including, tide stage (rising, falling, maximum, minimum), tide range and time since the maximum tide was reached;
 - 31.7. analytical results (if any) relating to the sample; and
 - 31.8. laboratory quality assurance and quality control documentation.

RECORDING AND REPORTING

32. 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.
33. The licensee must notify the administering agency of any non-compliance with this licence by emailing waste@nt.gov.au, as soon as practicable after (and in any case within 24 hours after) first becoming aware of the non-compliance.
34. The licensee must include in the notification of non-compliance the following information:
 - 34.1. when the non-compliance was detected and by whom;
 - 34.2. the date and time of the non-compliance;
 - 34.3. the actual and potential causes and contributing factors to the non-compliance;
 - 34.4. the risk of environmental harm arising from the non-compliance;
 - 34.5. the action(s) that have or will be undertaken to mitigate any environmental harm arising from the non-compliance;
 - 34.6. corrective actions that have or will be undertaken to ensure the non-compliance does not reoccur;
 - 34.7. if no action was taken, why no action was taken; and
 - 34.8. a date when an incident investigation report will be submitted to the administering agency.
35. The licensee must keep records of all exceedances of trigger values specified in Appendix 2. These records must be adequate to enable the licensee to comply with the exceedance notification conditions of this licence.
36. The licensee must submit a completed Annual Return which relates to the preceding 12 month period by 30 September, or as otherwise agreed by the administering agency, for each year of this licence.

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37. The licensee must complete and provide to the administering agency a Monitoring Report, as prescribed by this licence, by 30 September, or as otherwise agreed by the administering agency, for each year of this licence.
38. The licensee must ensure that each Monitoring Report:
 - 38.1. is prepared in accordance with the requirements of the NT EPA 'Guideline for Reporting on Environmental Monitoring';
 - 38.2. includes a tabulation of all monitoring data required as a condition of this licence;
 - 38.3. includes long term trend analysis of monitoring data to demonstrate any environmental impact associated with the activity over a minimum period of three years (where the data is available);
 - 38.4. includes an assessment of environmental impact from the activity; and
 - 38.5. presents the following parameters associated with wastewater discharge:
 - total discharge (ML/year);
 - total biochemical oxygen demand (tonnes/year);
 - total phosphorus (tonnes/year);
 - total nitrogen (tonnes/year); and
 - total suspended solids (tonnes/year).
39. The administering agency may require the licensee to revise or amend and resubmit any report required as a condition of this licence. Where the administering agency requires a report to be resubmitted, the licensee must submit it to the administering agency by the date specified by the administering agency.

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END OF LICENCE CONDITIONS

This licence is not valid unless signed below:



Jo Townsend

Controller of Water Resources

20 December 2018

END NOTES

Rev	Issue / Revision Date	Expiry Date	Reason for Revision
0	16 June 2013	31 July 2015	New licence (s74 <i>Water Act</i>)
1	3 July 2015	31 July 2017	Renewal (s15 <i>Water Regulations</i>)
2	25 May 2016	31 July 2017	Amendment (s93 <i>Water Act</i>) - to correct licence condition errors that introduced unintended licence non-conformance when the mixing zone water quality values exceed the Darwin Harbour water quality trigger values. New conditions 8, 14-16, and 18-20 are imposed to align requirements with the current standard. New condition 29 is imposed to specify contents of the annual monitoring report, in line with the current conditions. Previous conditions 18, 19 and 22 are now conditions 24, 25 and 28 respectively. Reference sites in Appendix 1 are moved closer to the discharge location to minimise influence from other nearby wastewater discharges not related to the Ichthys Project. New Appendix 2 is added to tabulate water quality trigger values and limits for reporting.
3	26 July 2017	31 December 2018	Renewal (s15 <i>Water Regulations</i>) - general condition amendments to align with standard requirements across industry. Month of expiry changed to December.
4	December 2018	31 December 2019	Renewal (s15 <i>Water Regulations</i>)

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DEFINITIONS

In this licence, unless a contrary intention appears:

Term	Definition
24 hour emergency contact	the phone number of a person who can be contacted at any time and be capable of responding to and providing information about any incident associated with the activity.
Activity	the Licenced activity as described on the covering page of this licence.
Annual Return	an administering agency prescribed format for demonstrating and reporting compliance with the conditions of this licence.
ANZECC/ARMCANZ	Australian and New Zealand Environment and Conservation Council and Agriculture and Resource Management Council of Australia and New Zealand, 2000: National Water Quality Management Strategy: <i>Australian Guidelines for Water Quality Monitoring and Reporting</i> .
Business days	a day not Saturday, Sunday or a public holiday, in the Northern Territory.
Community feedback number	a telephone number enabling members of the public to contact, at any time, a person or voice mail system that can accept, on behalf of the licensee, enquiries or complaints about the activity, and to which the licensee must respond.
Complaint Log	a register of complaints to be maintained by the Licensee that records the details of each complaint received in relation to the activity.
Consultation and Communication Plan	a written plan documenting proposed consultation and communications for the activity before, during and after the activity 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.
Contact details	includes the 24 hour emergency contact, and name, position title and phone number of a representative of the licensee who can be contacted about the licence and activity.
Contaminant	a solid, liquid or gas or any combination of such substances and includes: (a) noise, odour, heat and electromagnetic radiation; (b) a prescribed substance or prescribed class of substances; and (c) a substance having a prescribed property or prescribed class of properties.
Discharges	allow a liquid, gas or other substance to flow out from where it has been confined.
Emergency Response Plan	a written plan documenting the licensee's procedures for responding to emergencies caused by, resulting from or associated with the activity and that may cause environmental harm.
Environmental audit	has the meaning given in section 47 of the WMPC Act.
Environmental harm	any harm to or adverse effect on, or potential harm to or potential adverse effect on, the environment
Environmental nuisance	means: (a) an adverse effect on the amenity of an area that: (i) is caused by noise, smoke, dust, fumes or odour; and

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Term	Definition
	(ii) unreasonably interferes with or is likely to unreasonably interfere with the enjoyment of the area by persons who occupy a place within the area or are otherwise lawfully in the area; or (iii) an unsightly or offensive condition caused by contaminants or waste.
incident	includes: (a) an accident, emergency or malfunction; and (b) a deliberate action, whether or not that action was taken by the person conducting the activity in the course of which the incident occurred.
Land	includes water and air on, above or under land.
Litter	litter, garbage, rubbish, refuse or waste matter, and includes the body of a dead animal.
Maintain	kept in a manner that it does not present or cause a risk of environmental harm or a hazard to persons or property or, for the purposes of documents including plans, a process of reviewing and amending documentation to ensure it is relevant.
Material environmental harm	environmental harm that: (a) is not trivial or negligible in nature; (b) results or is likely to result in not more than \$50,000 being spent in taking appropriate action to prevent or minimise the harm or rehabilitate the environment; or (c) results in actual or potential loss or damage to the value of not more than \$50,000.
NATA	National Association of Testing Authorities, Australia.
Non-compliance	failure or refusal to comply, whether by act or omission, with obligations or requirements and includes any exceedance of a licence limit.
Non-compliance notification	an administering agency prescribed format for notifying the administering agency of a non-compliance.
Plant and equipment	all material items used in association with the activity, including (but not limited to) storage vessels and containers, pipe work and hosing, vehicles (including vessels), tools, and measuring equipment.
Point source discharge	means any discernible, confined or discrete conveyance from which contaminants or waste are or may be discharged.
Pollute	in relation to water, means directly or indirectly to alter the physical, thermal, chemical, biological or radioactive properties of the water so as to render it less fit for a prescribed beneficial use for which it is or may reasonably be used, or to cause a condition which is hazardous or potentially hazardous to: (a) public health, safety or welfare; (b) animals, birds, fish or aquatic life or other organisms; or (c) plants.
Pollution	(a) a contaminant or waste that is emitted, discharged, deposited or disturbed or that escapes; or (b) a contaminant or waste, effect or phenomenon, that is present in the environment as a consequence of an emission, discharge, deposition, escape or disturbance or a contaminant or waste.

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Term	Definition
Premises	the premises identified in this licence which includes equipment, plant and structures, whether stationary or portable, and the land on which premises are situated.
Public entrance	access to the premises that is utilised by the public.
Qualified person	a person registered under Section 68 of the WMPC Act.
Qualified sampler	a person who has training and experience in obtaining samples from the relevant environmental medium.
Serious environmental harm	environmental harm that is more serious than material environmental harm and includes environmental harm that: (a) results or is likely to result in more than \$50,000 being spent in taking appropriate action to prevent or minimise the harm or rehabilitate the environment; (b) results in actual or potential loss or damage to the value of more than \$50,000; (c) damages an aspect of the environment that is of a high conservation value or of special significance; and (d) is irreversible or otherwise of a high impact or on a wide scale.
Solid inert waste	solid waste that has no active chemical or biological properties. These wastes do not undergo environmentally significant physical, chemical or biological transformation.
Stormwater	water flowing over ground surfaces, in natural streams and drains as a direct result of rainfall over a catchment and consists primarily of rainfall runoff.
Trigger values	assigned value for each indicator used to assess the risk to an environmental value, a value that initiates some type of pre-defined management action.
Waste	Includes matter or a thing, whether wholly or partly in a solid, liquid or gaseous state, which, if added to water, may pollute the water.
Wastewater	water that contains a contaminant or waste.
Water	means water, whether or not it contains impurities.
WMPC Act	the Northern Territory <i>Waste Management and Pollution Control Act</i> .

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APPENDIX 1: SURFACE WATER MONITORING PROGRAM

Sample locations										
STP Tank Outlet		Darwin Harbour – East Arm (Elizabeth River) ¹						Reference Points		
		Mixing Zone Boundary								
Site Code	STPM-T1*	STPM-01	STPM-02	STPM-03	STPM-04	STPM-R1	STPM-R2			
Latitude	-12.52903	-12.52454	-12.52499	-12.52545	-12.52500	-12.52048	-12.52950			
Longitude	130.92527	130.93404	130.93450	130.93404	130.93358	130.93401	130.93645			
Parameter		Abbrev.	Units	Frequency						
Flow			kL/week	W	NR	NR	NR	NR	NR	NR
			mg/L							
Biochemical Oxygen Demand		BOD ₅		M						
pH		pH	pH units							
Electrical Conductivity		EC	µS/cm							
Dissolved Oxygen		DO	% saturation							
Turbidity		NTU	NTU	M	M	M	M	M	M	M
Temperature		T	°C							
Total Suspended Solids		TSS	mg/L							
Filterable Reactive Phosphorous		FRP	µg/L							

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Sample locations									
STP Tank Outlet		Darwin Harbour – East Arm (Elizabeth River) ¹						Reference Points	
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Latitude	-12.52903	-12.52454	-12.52499	-12.52545	-12.52500	-12.52048	-12.52950		
Longitude	130.92527	130.93404	130.93450	130.93404	130.93358	130.93401	130.93645		
Frequency									
Parameter	Abbrev.	Units							
Total Phosphorous	TP	µg/L	M						
Ammonia	NH ₃ -N	µg/L							
Total Nitrogen	TN	µg/L							
Nitrate	NO ₃	µg/L							
Nitrite	NO ₂	µg/L							
Chlorophyll-a	Chl- <i>α</i>	µg/L							
<i>Enterococci spp</i>		cfu/100mL							
KEY									
¹ Darwin Harbour – East Arm (Elizabeth River) monitoring should be conducted within 1.5 hours of the high tide of a neap tide.									
* Downstream of Holding Tank Outlet, after UV disinfection, prior to discharge.									
NR: Not Required; W: Weekly – Flow data to be collected weekly and at the same event as the monthly monitoring events; M: Monthly during Neap tides, as far as is practicable; S: Seasonal – being one sampling event in the Dry season, and one sampling event in the Wet season.									

Legend

- Water bodies (including reservoirs)
- Proposed stormwater pipeline
- STP location (STP-01, STP-02, STP-03, STP-04)
- Monitoring points (STPM-01, STPM-02, STPM-03, STPM-04)
- Proposed pipeline alignment
- Proposed pipeline - Monitoring Zone
- STP boundary
- APA Certificate Boundary

Notes

The map is a composite of various data sources including:

- Aerial photography (2010)
- Topographic data (2010)
- Hydrographic data (2010)
- Geological data (2010)
- Environmental data (2010)
- Infrastructure data (2010)
- Planning data (2010)
- Other data (2010)

Scale

0 1000m

North Arrow

0° 0' 0" N

150° 0' 0" E

Map Title

STP Pipeline and Outfall Pipe

Map Date

2010

Map Author

John Doe

Map Reviewer

Jane Smith

Map Approval

John Doe

Map Version

1.0

Map Scale

1:1000

Map Projection

UTM

Map Datum

WGS 84

Map Units

Meters

Map Legend

Water bodies (including reservoirs)

Proposed stormwater pipeline

STP location (STP-01, STP-02, STP-03, STP-04)

Monitoring points (STPM-01, STPM-02, STPM-03, STPM-04)

Proposed pipeline alignment

Proposed pipeline - Monitoring Zone

STP boundary

APA Certificate Boundary

Map Notes

The map is a composite of various data sources including:

- Aerial photography (2010)
- Topographic data (2010)
- Hydrographic data (2010)
- Geological data (2010)
- Environmental data (2010)
- Infrastructure data (2010)
- Planning data (2010)
- Other data (2010)

Map Scale

0 1000m

Map Projection

UTM

Map Datum

WGS 84

Map Units

Meters

Map Legend

Water bodies (including reservoirs)

Proposed stormwater pipeline

STP location (STP-01, STP-02, STP-03, STP-04)

Monitoring points (STPM-01, STPM-02, STPM-03, STPM-04)

Proposed pipeline alignment

Proposed pipeline - Monitoring Zone

STP boundary

APA Certificate Boundary

Map Notes

The map is a composite of various data sources including:

- Aerial photography (2010)
- Topographic data (2010)
- Hydrographic data (2010)
- Geological data (2010)
- Environmental data (2010)
- Infrastructure data (2010)
- Planning data (2010)
- Other data (2010)

TABLE 3			
S. L. F. 79-14			
Year	1979	1980	1981
1979	100	100	100
1980	100	100	100
1981	100	100	100

INDEX

IC-THYS ONSHORE FACILITIES

TEMPERARY SPOUT FALL RESERVOIR ENVIRONMENT- MIXING ZONE AND MONITORING LOCATIONS

[illegible]

125E-06 : SK-61	A1
	B

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APPENDIX 2: SURFACE WATER QUALITY TRIGGER VALUES AND REPORTING LIMITS

Parameter	Abbreviation	Units	Sample locations	
			STPM-T1	Median of (STPM-01, STPM-02, STPM-03, STPM-04)
pH	pH	pH units	Reporting Limit ¹ <6.0, >9.0	Trigger Value ² <6.5, >8.5
Dissolved Oxygen	DO	% saturation	n/a	<80
Biochemical Oxygen Demand	BOD ₅	mg/L	>20	n/a
Total Suspended Solids	TSS	mg/L	>30	>10
Filterable Reactive Phosphorous	FRP	µg/L	n/a	>10
Total Phosphorous	TP	µg/L	n/a	>30
Ammonia	NH ₃ -N	µg/L	n/a	>20
Total Nitrogen	TN	µg/L	n/a	>300
Oxides of Nitrogen	(NO ₂ -N) + (NO ₃ -N)	µg/L	n/a	>20
Chlorophyll-a	Chl- <i>a</i>	µg/L	n/a	>4
<i>Enterococci spp</i>		cfu/100mL	>100	>50

¹ Measured value must not exceed the STPM-T1 reporting limit.

² If the mixing zone median value exceeds the trigger value in any month, the cause and likely impact to beneficial uses must be investigated and reported in the annual Monitoring Report. Reference background water quality must be determined by comparing with the reference sites in Appendix 1 as well as other reference background water quality data obtained from the EIMP approved under EPA7 (as amended).