



# Licence

## *Environmental Protection Act 1986, Part V*

**Licensee:** Dampier Salt Limited

**Licence:** L7183/1997/11

**Registered office:** 37 Belmont Avenue  
 BELMONT WA 6104

**ACN:** 008 706 590

**Premises address:** Port Hedland Operations  
 ML242SA, ML250SA and M269SA  
 PORT HEDLAND WA 6721  
 As depicted in Schedule 1

**Issue date:** Thursday, 12 September 2013

**Commencement date:** Sunday, 22 September 2013

**Expiry date:** Friday, 21 September 2018

**Prescribed premises category**  
 Schedule 1 of the *Environmental Protection Regulations 1987*

Category number	Category description	Category production or design capacity	Approved Premises production or design capacity
14	Solar salt manufacturing: premises on which salt is produced by solar evaporation.	Not applicable.	3 200 000 tonnes per annual period.

**Conditions**

This Licence is subject to the conditions set out in the attached pages.

Date signed 4 February 2016

.....  
 Alana Kidd  
 Manager Licensing - Resource Industries  
 Officer delegated under section 20  
 of the *Environmental Protection Act 1986*



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## Introduction

This Introduction is not part of the Licence conditions.

### DER's industry licensing role

The Department of Environment Regulation (DER) is a government department for the state of Western Australia in the portfolio of the Minister for Environment. DER's purpose is to advise on and implement strategies for a healthy environment for the benefit of all current and future Western Australians.

DER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DER also monitors and audits compliance with works approvals and licence conditions, takes enforcement action as appropriate and develops and implements licensing and industry regulation policy.

### Licence requirements

This Licence is issued under Part V of the Act. Conditions contained with the Licence relate to the prevention, reduction or control of emissions and discharges to the environment and to the monitoring and reporting of them.

Where other statutory instruments impose obligations on the Premises/Licensee the intention is not to replicate them in the licence conditions. You should therefore ensure that you are aware of all your statutory obligations under the Act and any other statutory instrument. Legislation can be accessed through the State Law Publisher website using the following link: <http://www.slp.wa.gov.au/legislation/statutes.nsf/default.html>

For your Premises relevant statutory instruments include but are not limited to obligations under the:

- *Environmental Protection (Unauthorised Discharges) Regulations 2004* – these Regulations make it an offence to discharge certain materials such as contaminated stormwater into the environment other than in the circumstances set out in the Regulations.
- *Environmental Protection (Controlled Waste) Regulations 2004* - these Regulations place obligations on you if you produce, accept, transport or dispose of controlled waste.
- *Environmental Protection (Noise) Regulations 1997* – these Regulations require noise emissions from the Premises to comply with the assigned noise levels set out in the Regulations.

You must comply with your licence. Non-compliance with your licence is an offence and strict penalties exist for those who do not comply.

Licence holders are also reminded of the requirements of section 53 of the Act which places restrictions on making certain changes to prescribed premises unless the changes are in accordance with a works approval, licence, closure notice or environmental protection notice.



### Licence fees

If you have a licence that is issued for more than one year, you are required to pay an annual licence fee prior to the anniversary date of issue of your licence. Non-payment of annual licence fees will result in your licence ceasing to have effect meaning that it will no longer be valid and you will need to apply for a new licence for your Premises.

### Ministerial conditions

If your Premises has been assessed under Part IV of the Act you may have had conditions imposed by the Minister for the Environment. You are required to comply with any conditions imposed by the Minister.

### Premises description and Licence summary

Dampier Salt Limited (DSL) Port Hedland Operations produces halite salt (sodium chloride) by solar evaporation of seawater. The Port Hedland Operations are located in the north-west of Western Australia within the municipality of the Town of Port Hedland.

The process of producing salt begins at seawater pump stations. Seawater is pumped from adjacent tidal creeks during high tides into a series of concentrator ponds located approximately 40 kilometres (km) north of Port Hedland. The seawater is gravity fed from concentrator pond zero through the last concentrator pond eight. Solar energy and wind evaporate the seawater water, which progressively concentrates the seawater into a hyper saline solution called brine. The brine is then pumped from the last concentration pond through a 21km ditch system to a flow equalisation pond where the brine is further evaporated.

Saturated brine is pumped, as required into crystallising ponds where further evaporation causes the salt to crystallise. Once the saturated brine in the crystallisers has reached a certain concentration the residual brine, now called bitterns is drained off. When the salt has grown to the required thickness it is removed by mechanical harvesters. Generally each crystalliser is harvested once per year. The harvester feeds a prime mover, which consists of 2 to 3 belly dumpers.

Following harvest the salt is transported directly to the wash plant for removal of gypsum and other impurities. The washed salt is left to drain and dry, to meet the required moisture content. Dry salt is then trucked to the Port Operations (licensed under L7179/1997/11) and stockpiled. The gypsum that is recovered during the washing process or removed from ponds and channels is utilised for repairs to roads and levees or used to backfill borrow pits to facilitate rehabilitation works.

The bitterns are released through either Six Mile Creek or Paradise Creek discharge points and must be discharged to avoid significant environmental harm in accordance with DSL internal Environmental Discharge Procedure (JA-PRO-760) and Ministerial Statement 147.

This Licence is the successor to licence L7183/1997/10. The licences and works approvals issued for the Premises since 30/09/2000 are:

Instrument log		
Instrument	Issued	Description
L7183/1997/4	30/09/2000	First licence noted in the Industry Licensing System.
L7183/1997/5	29/09/2001	Licence reissue.
L7183/1997/6	03/10/2002	Licence reissue.
L7183/1997/7	22/09/2003	Licence reissue.
L7183/1997/8	22/09/2004	Licence reissue.
L7183/1997/9	22/09/2006	Licence reissue.
L7183/1997/10	18/09/2008	Licence reissue.
L7183/1997/11	12/09/2013	Licence reissue and conversion to new format.
L7183/1997/11	04/02/2016	Licence amended to update report submission date.



## Severance

It is the intent of these Licence conditions that they shall operate so that, if a condition or a part of a condition is beyond the power of this Licence to impose, or is otherwise *ultra vires* or invalid, that condition or part of a condition shall be severed and the remainder of these conditions shall nevertheless be valid to the extent that they are within the power of this Licence to impose and are not otherwise *ultra vires* or invalid.

## END OF INTRODUCTION

# Licence conditions

## 1 General

### 1.1 Interpretation

1.1.1 In the Licence, definitions from the *Environmental Protection Act 1986* apply unless the contrary intention appears.

1.1.2 For the purposes of this Licence, unless the contrary intention appears:

'Act' means the *Environmental Protection Act 1986*;

'annual period' means the inclusive period from 1 January until 31 December in that year;

'AS/NZS 5667.1' means the Australian Standard AS/NZS 5667.1 *Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples*;

'AS/NZS 5667.9' means the Australian Standard AS/NZS 5667.9 *Water Quality – Sampling – Guidance on sampling from marine waters*;

'AS/NZS 5667.10' means the Australian Standard AS/NZS 5667.10 *Water Quality – Sampling Guidance on sampling of waste waters*;

'averaging period' means the time over which a limit or target is measured or a monitoring result is obtained;

'BTEX' means Benzene, toluene, ethyl benzene, xylene;

'CEO' means Chief Executive Officer of the Department of Environment Regulation;

'CEO' for the purpose of correspondence means;

Chief Executive Officer

Department Administering the *Environmental Protection Act 1986*

Locked Bag 33

CLOISTERS SQUARE WA 6850

Email: [info@der.wa.gov.au](mailto:info@der.wa.gov.au)

'EC' means Electrical Conductivity;

'Licence' means this Licence numbered L7183/1997/11;

'Licensee' means the person or organisation named as Licensee on page 1 of the Licence;

'µg/L' means micrograms per litre;

'µS/cm' means micro Siemens per centimetre;

'NATA' means the National Association of Testing Authorities, Australia;



**'NATA accredited'** means in relation to the analysis of a sample that the laboratory is NATA accredited for the specified analysis at the time of the analysis;

**'Premises'** means the area defined in the Premises Map in Schedule 1 and listed as the Premises address on page 1 of the Licence;

**'quarterly'** means the 4 inclusive periods from 1 January to 31 March, 1 April to 30 June, 1 July to 30 September, 1 October to 31 December in the same year;

**'Schedule 1'** means Schedule 1 of this Licence unless otherwise stated;

**'Schedule 2'** means Schedule 2 of this Licence unless otherwise stated;

**'six monthly'** means the 2 inclusive periods from 1 January to 30 June and 1 July to 31 December in the same year;

**'spot sample'** means a discrete sample representative at the time and place at which the sample is taken;

**'TRH'** means total recoverable hydrocarbons; and

**'TSS'** means total suspended solids.

1.1.3 Any reference to an Australian or other standard in the Licence means the relevant parts of the standard in force from time to time during the term of this Licence.

1.1.4 Any reference to a guideline or code of practice in the Licence means the version of that guideline or code of practice in force from time to time, and shall include any amendments or replacements to that guideline or code of practice made during the term of this Licence.

1.1.5 Nothing in the Licence shall be taken to authorise any emission that is not mentioned in the Licence, where the emission amounts to:

- (a) pollution;
- (b) unreasonable emission;
- (c) discharge of waste in circumstances likely to cause pollution; or
- (d) being contrary to any written law.

## 1.2 General conditions

1.2.1 The Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.

1.2.2 The Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.

1.2.3 The Licensee shall:

- (a) implement all practical measures to prevent stormwater run-off becoming contaminated by the activities on the Premises; and
- (b) treat contaminated or potentially contaminated stormwater as necessary prior to being discharged from the Premises.<sup>1</sup>

Note 1: The *Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.



## 2 Emissions

### 2.1 General

2.1.1 The Licensee shall record and investigate the exceedance of any descriptive or numerical limit specified in any part of section 2 of this Licence.

### 2.2 Point source emissions to surface water

2.2.1 The Licensee shall ensure that where waste is emitted to surface water from the emission points in Table 2.2.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

<b>Table 2.2.1: Emission points to surface water</b>			
<b>Emission point reference</b>	<b>Emission point reference on Map of emission points</b>	<b>Description</b>	<b>Source</b>
W1	Six Mile Creek bitterns discharge point	Bitterns discharge point	Bitterns
	Paradise Creek bitterns discharge point		

### 2.3 Emissions to land

2.3.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.3.1 and identified on the map of emission points in Schedule 1 it is done so in accordance with the conditions of this Licence.

<b>Table 2.3.1: Emissions to land</b>			
<b>Emission point reference and location on Map of emission points</b>	<b>Emission point reference on Map of emission points</b>	<b>Description</b>	<b>Source</b>
L1	Light vehicle wash down evaporation pond	Wastewater storage	Wastewater from wash down and fuel farm facilities potentially contaminated with hydrocarbons
L2	Truck wash down evaporation pond	Wastewater storage	Wastewater from wash down and fuel farm facilities potentially contaminated with hydrocarbons

2.3.2 The Licensee shall not cause or allow emissions to land greater than the limits listed in Table 2. 3.2.

<b>Table 2.3.2: Emission limits to land</b>			
<b>Emission point reference</b>	<b>Parameter</b>	<b>Limit (including units)</b>	<b>Averaging period</b>
L1, L2	TRH	15 mg/L	Spot sample
	BTEX	10 µg/L	



### 3 Monitoring

#### 3.1 General monitoring

3.1.1 The Licensee shall ensure that:

- (a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- (b) all wastewater samples is conducted in accordance with AS/NZS 5667.10;
- (c) all surface water sampling is conducted in accordance with AS/NZS 5667.9; and
- (d) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured.

3.1.2 The Licensee shall ensure that:

- (a) monthly monitoring is undertaken at least 15 days apart;
- (b) quarterly monitoring is undertaken at least 45 days apart; and
- (c) six monthly monitoring is undertaken at least 5 months apart.

#### 3.2 Monitoring of point source emissions to surface water

3.2.1 The Licensee shall undertake the monitoring in Table 3.2.1 according to the specifications in that table.

<b>Table 3.2.1: Monitoring of point source emissions to surface water</b>			
<b>Emission point reference</b>	<b>Parameter</b>	<b>Units</b>	<b>Frequency</b>
W1	Volume	L/s m <sup>3</sup> /day	Monthly cumulative
	Chloride, sulfate, sodium, magnesium, potassium, calcium, TSS, arsenic, beryllium, boron, cadmium, chromium, copper, fluoride, lead, mercury, nickel, total nitrogen, total phosphorus	mg/L	Six monthly
	EC	µS/cm	
	pH <sup>1</sup>	pH units	

Note 1: In-field non-NATA accredited analysis permitted

#### 3.3 Monitoring of emissions to land

3.3.1 The Licensee shall undertake the monitoring in Table 3.3.1 according to the specifications in that table.

<b>Table 3.3.1: Monitoring of emissions to land</b>			
<b>Emission point reference</b>	<b>Parameter</b>	<b>Units</b>	<b>Frequency</b>
L1, L2	TRH	mg/L	Quarterly
	BTEX	µg/L	

### 4 Information

#### 4.1 Records

4.1.1 All information and records required by the Licence shall:

- (a) be legible;
- (b) if amended, be amended in such a way that the original and subsequent amendments remain legible or are capable of retrieval;





- (c) except for records listed in 4.1.1(d) be retained for at least 6 years from the date the records were made or until the expiry of the Licence or any subsequent licence; and
- (d) for those following records, be retained until the expiry of the Licence and any subsequent licence:
  - (i) off-site environmental effects; or
  - (ii) matters which affect the condition of the land or waters.

4.1.2 The Licensee shall ensure that:

- (a) any person left in charge of the Premises is aware of the conditions of the Licence and has access at all times to the Licence or copies thereof; and
- (b) any person who performs tasks on the Premises is informed of all of the conditions of the Licence that relate to the tasks which that person is performing.

4.1.3 The Licensee shall complete an Annual Audit Compliance Report indicating the extent to which the Licensee has complied with the conditions of the Licence, and any previous licence issued under Part V of the Act for the Premises for the previous annual period.

4.1.4 The Licensee shall implement a complaints management system that as a minimum records the number and details of complaints received concerning the environmental impact of the activities undertaken at the Premises and any action taken in response to the complaint.

## 4.2 Reporting

4.2.1 The Licensee shall submit to the CEO an Annual Environmental Report by the 30 April. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

<b>Table 4.2.1: Annual Environmental Report</b>		
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Format or form<sup>1</sup></b>
-	Summary of any failure or malfunction of any pollution control equipment or any environmental incidents that have occurred during the annual period and any action taken	None specified
-	Information pertaining to the Bitterns Management Plan and Mangrove Management and Monitoring Plan including bitterns monitoring data and mangrove monitoring data	None specified
Table 2.3.2	Limit exceedances	None specified
Table 3.2.1	Volume, chloride, sulfate, sodium, magnesium, potassium, calcium, TSS, arsenic, beryllium, boron, cadmium, chromium, copper, fluoride, lead, mercury, nickel, total nitrogen, total phosphorus, EC, pH	None specified
Table 3.3.1	TRH, BTEX	None specified
4.1.3	Compliance	Annual Audit Compliance Report (AACR)
4.1.4	Complaints summary	None specified

Note 1: Forms are in Schedule 2

4.2.2 The Licensee shall ensure that the Annual Environmental Report also contains:

- (a) an assessment of the information contained within the report against previous monitoring results and Licence limits; and
- (b) a list of any original relevant monitoring reports submitted to the Licensee from third parties for the annual period and make these reports available on request.





### 4.3 Notification

4.3.1 The Licensee shall ensure that the parameters listed in Table 4.3.1 are notified to the CEO in accordance with the notification requirements of the table.

<b>Table 4.3.1: Notification requirements</b>			
<b>Condition or table (if relevant)</b>	<b>Parameter</b>	<b>Notification requirement<sup>1</sup></b>	<b>Format or form<sup>2</sup></b>
2.1.1	Breach of any limit specified in the Licence	Part A: As soon as practicable but no later than 5pm of the next usual working day.  Part B: As soon as practicable	N1

Note 1: Notification requirements in the licence shall not negate the requirement to comply with s72 of the Act

Note 2: Forms are in Schedule 2

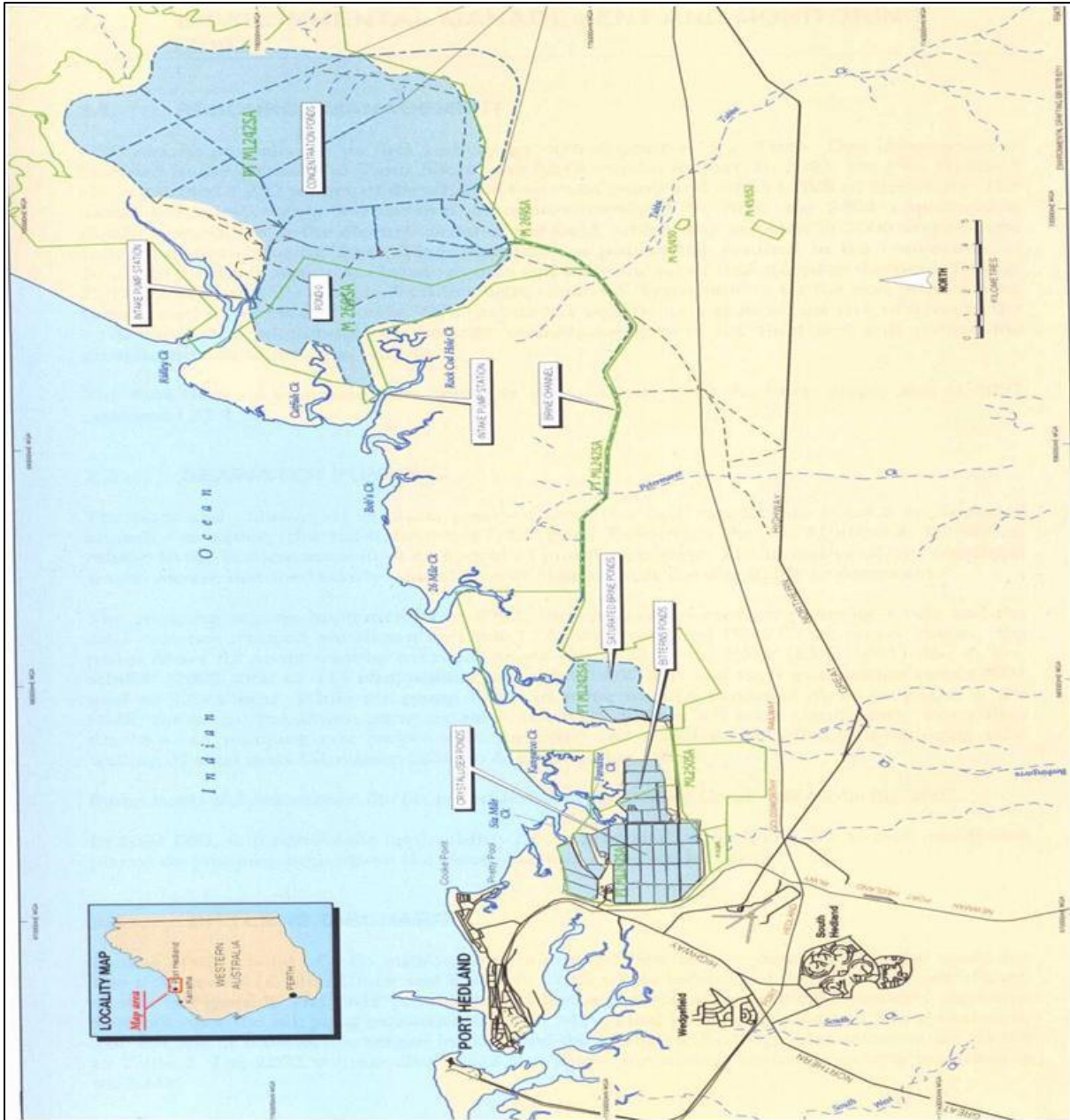


## Schedule 1: Maps

### Premises map

The Premises is shown in the map below. The blue shaded area depicts the Premises boundary.

### Map 1: Premises Boundary

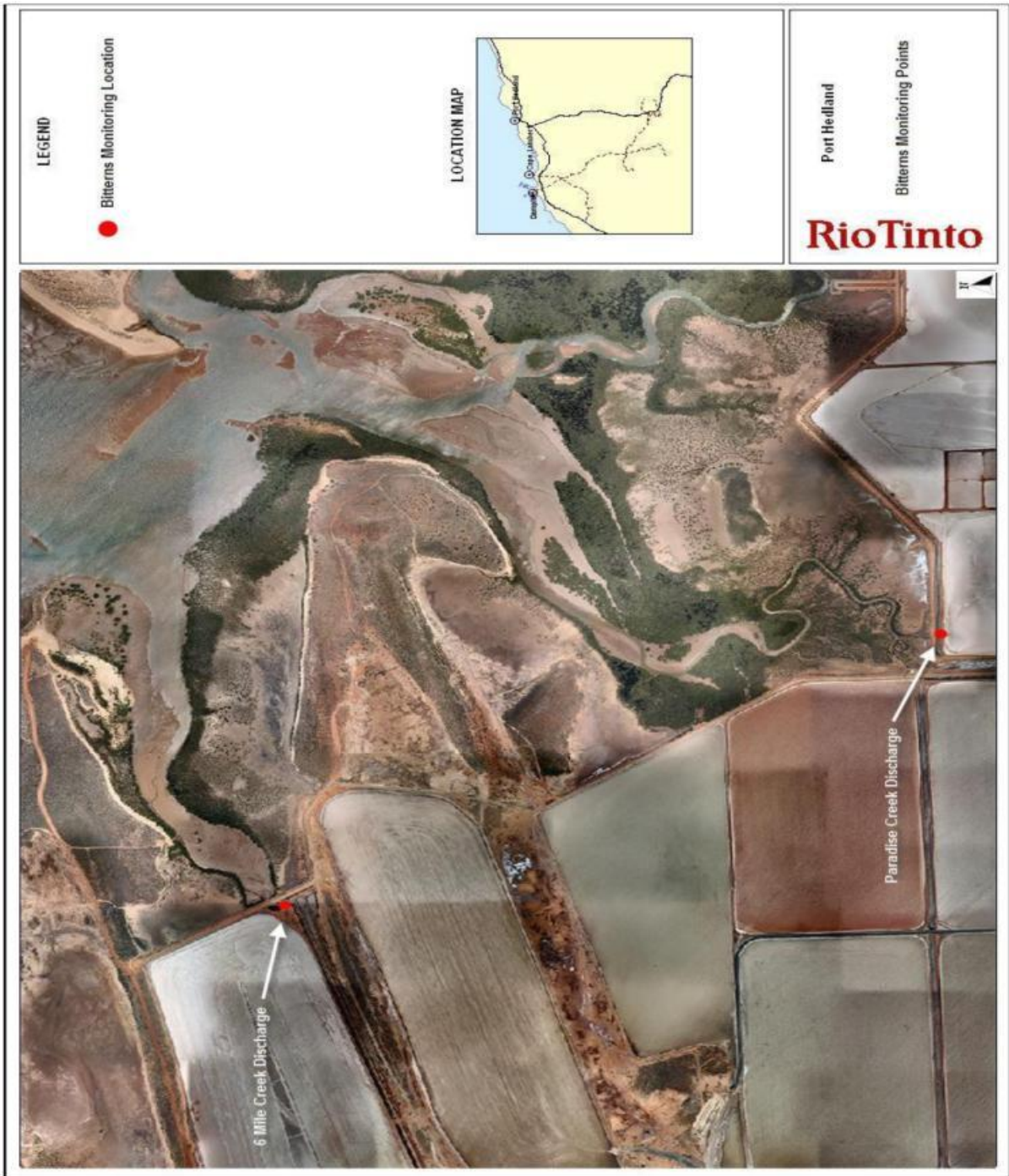




### Map of emission points

The locations of the emission points defined in Tables 2.2.1 and 2.3.1 are shown below.

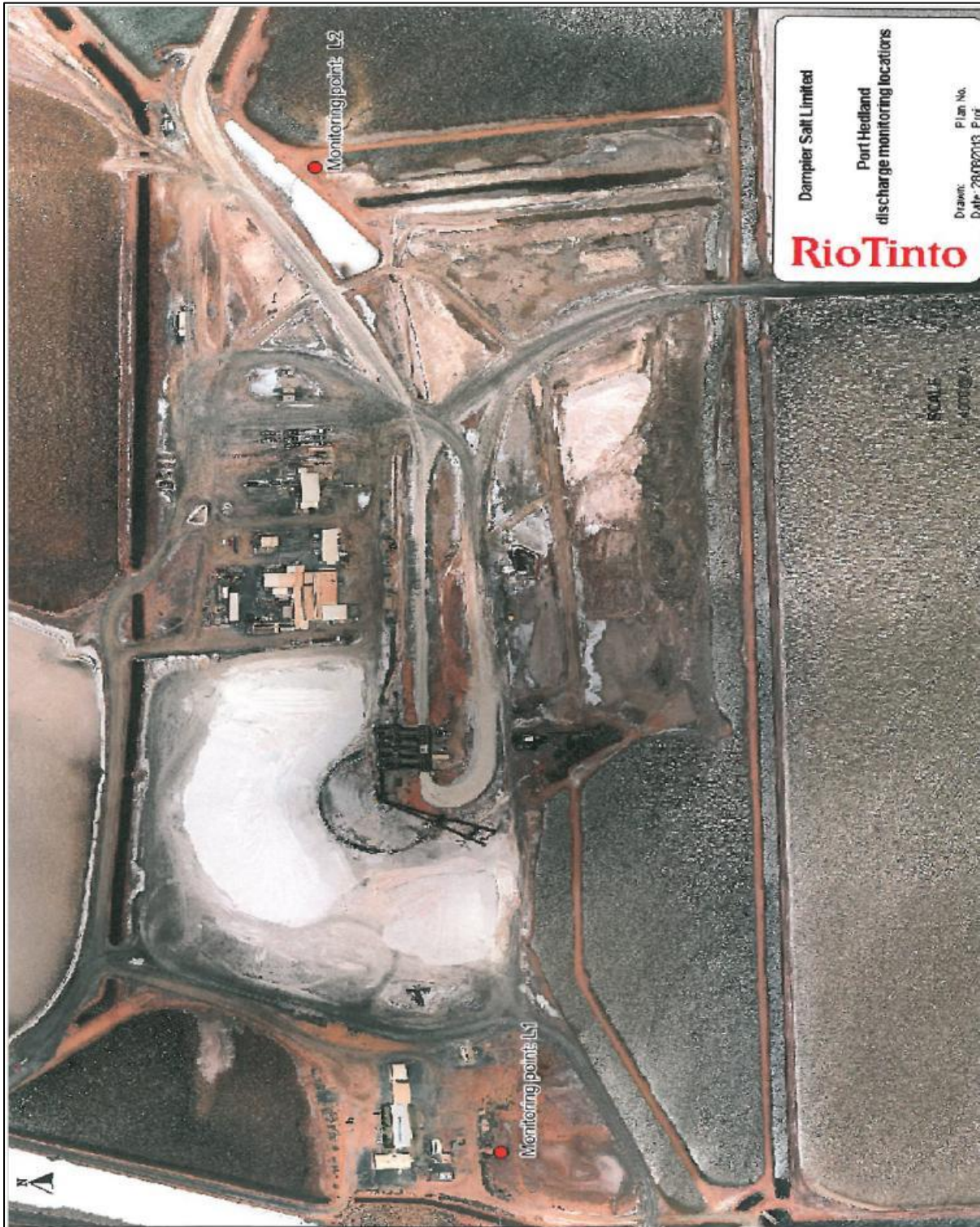
**Map 2: 6 Mile Creek and Paradise Creek bitterns discharge points – W1**







**Map 3: Evaporation ponds – L1 and L2**





## Schedule 2: Reporting & notification forms

These forms are provided for the proponent to report monitoring and other data required by the Licence. They can be requested in an electronic format.

### ANNUAL AUDIT COMPLIANCE REPORT PROFORMA

#### SECTION A LICENCE DETAILS

Licence Number:	Licence File Number:
Company Name:	ABN:
Trading as:	
Reporting period: _____ to _____	

#### STATEMENT OF COMPLIANCE WITH LICENCE CONDITIONS

- Were all conditions of the Licence complied with within the reporting period? (please tick the appropriate box)
 

Yes  Please proceed to Section C  
 No  Please proceed to Section B

Each page must be initialled by the person(s) who signs Section C of this Annual Audit Compliance Report (AACR).

Initial:



## SECTION B DETAILS OF NON-COMPLIANCE WITH LICENCE CONDITION.

Please use a separate page for each Licence condition that was not complied with.

a) Licence condition not complied with:	
b) Date(s) when the non compliance occurred, if applicable:	
c) Was this non compliance reported to DER?:	
<input type="checkbox"/> Yes <input type="checkbox"/> Reported to DER verbally Date _____ <input type="checkbox"/> Reported to DER in writing Date _____	<input type="checkbox"/> No
d) Has DER taken, or finalised any action in relation to the non compliance?:	
e) Summary of particulars of the non compliance, and what was the environmental impact:	
f) If relevant, the precise location where the non compliance occurred (attach map or diagram):	
g) Cause of non compliance:	
h) Action taken, or that will be taken to mitigate any adverse effects of the non compliance:	
i) Action taken or that will be taken to prevent recurrence of the non compliance:	

Each page must be initialled by the person(s) who signs Section C of this AACR

Initial:



## SECTION C

### SIGNATURE AND CERTIFICATION

This Annual Audit Compliance Report (AACR) must only be signed by a person(s) with legal authority to sign it. The ways in which the AACR must be signed and certified, and the people who may sign the statement, are set out below.

Please tick the box next to the category that describes how this AACR is being signed. If you are uncertain about who is entitled to sign or which category to tick, please contact the licensing officer for your premises.

If the licence holder is		The Annual Audit Compliance Report must be signed and certified:
An individual	<input type="checkbox"/> <input type="checkbox"/>	by the individual licence holder, or by a person approved in writing by the Chief Executive Officer of the Department of Environment Regulation to sign on the licensee's behalf.
A firm or other unincorporated company	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A corporation	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	by affixing the common seal of the licensee in accordance with the <i>Corporations Act 2001</i> ; or by two directors of the licensee; or by a director and a company secretary of the licensee, or if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
A public authority (other than a local government)	<input type="checkbox"/> <input type="checkbox"/>	by the principal executive officer of the licensee; or by a person with authority to sign on the licensee's behalf who is approved in writing by the Chief Executive Officer of the Department of Environment Regulation.
a local government	<input type="checkbox"/> <input type="checkbox"/>	by the chief executive officer of the licensee; or by affixing the seal of the local government.

It is an offence under section 112 of the *Environmental Protection Act 1986* for a person to give information on this form that to their knowledge is false or misleading in a material particular. There is a maximum penalty of \$50,000 for an individual or body corporate.

I/We declare that the information in this annual audit compliance report is correct and not false or misleading in a material particular.

SIGNATURE: \_\_\_\_\_

SIGNATURE: \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

NAME:  
(printed) \_\_\_\_\_

POSITION: \_\_\_\_\_

POSITION: \_\_\_\_\_

DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

DATE: \_\_\_\_ / \_\_\_\_ / \_\_\_\_

SEAL (if signing under seal)





Licence: L7183/1997/11  
Form: N1

Licensee: Dampier Salt Limited  
Date of breach:

**Notification of detection of the breach of a limit.**

These pages outline the information that the operator must provide.  
Units of measurement used in information supplied under Part A and B requirements shall be appropriate to the circumstances of the emission. Where appropriate, a comparison should be made of actual emissions and authorised emission limits.

**Part A**

Licence Number	
Name of operator	
Location of Premises	
Time and date of the detection	

<b>Notification requirements for the breach of a limit</b>	
Emission point reference/ source	
Parameter(s)	
Limit	
Measured value	
Date and time of monitoring	
Measures taken, or intended to be taken, to stop the emission	

**Part B**

Any more accurate information on the matters for notification under Part A.	
Measures taken, or intended to be taken, to prevent a recurrence of the incident.	
Measures taken, or intended to be taken, to rectify, limit or prevent any pollution of the environment which has been or may be caused by the emission.	
The dates of any previous N1 notifications for the Premises in the preceding 24 months.	

Name	
Post	
Signature on behalf of Dampier Salt Limited	
Date	



# Decision Document

## *Environmental Protection Act 1986, Part V*

**Proponent:** Dampier Salt Limited

**Licence:** L7183/1997/11

**Registered office:** 37 Belmont Avenue  
 BELMONT WA 6104

**ACN:** 008 706 590

**Premises address:** Port Hedland Operations  
 ML242SA, ML250SA and M269SA  
 PORT HEDLAND WA 6721

**Issue date:** Thursday, 12 September 2013

**Commencement date:** Sunday, 22 September 2013

**Expiry date:** Friday, 21 September 2018

### Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue an amended licence. DER considers that in reaching this decision, it has taken into account all relevant considerations and legal requirements and that the Licence and its conditions will ensure that an appropriate level of environmental protection is provided.

Decision Document prepared by: Christine Pustkuchen  
 Licensing Officer

Decision Document authorised by: Danielle Eyre  
 Delegated Officer



## Contents

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1 Purpose of this Document	2
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## 1 Purpose of this Document

This decision document explains how DER has assessed and determined the application and provides a record of DER's decision-making process and how relevant factors have been taken into account. Stakeholders should note that this document is limited to DER's assessment and decision making under Part V of the *Environmental Protection Act 1986*. Other approvals may be required for the proposal, and it is the proponent's responsibility to ensure they have all relevant approvals for their Premises.

## 2 Administrative summary

Administrative details		
Application type	Works Approval <input type="checkbox"/>	
	New Licence <input type="checkbox"/>	
	Licence amendment <input checked="" type="checkbox"/>	
	Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	<b>Category number(s)</b>	<b>Assessed design capacity</b>
	14 – Solar salt manufacturing: premises on which salt is produced by solar evaporation.	3 200 000 tonnes per annual period.
Application verified	Date: N/A	
Application fee paid	Date: N/A	
Works Approval has been complied with	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Compliance Certificate received	Yes <input type="checkbox"/>	No <input type="checkbox"/> N/A <input checked="" type="checkbox"/>
Commercial-in-confidence claim	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Commercial-in-confidence claim outcome		
Is the proposal a Major Resource Project?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
Was the proposal referred to the Environmental Protection Authority (EPA) under Part IV of the <i>Environmental Protection Act 1986</i> ?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input checked="" type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 147 EPA Report No:



Does the proposal involve a discharge of waste into a designated area (as defined in section 57 of the <i>Environmental Protection Act 1986</i> )?	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Department of Water consulted Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>	

### 3 Executive summary of proposal and assessment

Dampier Salt Limited (DSL) Port Hedland Operations produces halite salt (sodium chloride) by solar evaporation of seawater. The Port Hedland Operations are located in the north-west of Western Australia within the municipality of the Town of Port Hedland.

The process of producing salt begins at seawater pump stations. Seawater is pumped from adjacent tidal creeks during high tides into a series of concentrator ponds located approximately 40 kilometres (km) north of Port Hedland. The seawater is gravity fed from concentrator pond zero through the last concentrator pond eight. Solar energy and wind evaporate the seawater, which progressively concentrates the seawater into a hyper-saline brine solution. The brine is then pumped from the last concentration pond through a 21km ditch system to a flow equalisation pond where the brine is further evaporated.

Saturated brine is pumped, as required into crystallising ponds where further evaporation causes the salt to crystallise. Once the saturated brine in the crystallisers has reached a certain concentration the residual brine, now called bitterns is drained off. When the salt has grown to the required thickness it is removed by mechanical harvesters. Generally each crystalliser is harvested once per year. The harvester feeds a prime mover, which consists of 2 to 3 belly dumpers.

Following harvest the salt is transported directly to the wash plant for removal of gypsum and other impurities. The washed salt is left to drain and dry, to meet the required moisture content. Dry salt is then trucked to the Port Operations (licensed under L7179/1997/11) and stockpiled. The gypsum that is recovered during the washing process or removed from ponds and channels is utilised for repairs to roads and levees or used to backfill borrow pits to facilitate rehabilitation works.

The bitterns are released through either Six Mile Creek or Paradise Creek discharge points and are discharged to avoid significant environmental harm in accordance with the DSL internal Environmental Discharge Procedure (JA-PRO-760) and Ministerial Statement 147.

This decision document is a result of an amendment request made by the Licensee to amend the reporting date for the submission of the Annual Environmental Report (AER) from 28 February to 30 April. At the time of this amendment, minor changes were also made to align the Licence with version 2.9. DER has not re-assessed the acceptability of impacts of emissions and discharges from the Premises or re-visited any existing emission control levels.



## 4 Decision table

All applications are assessed in line with the *Environmental Protection Act 1986*, the *Environmental Protection Regulations 1987* and DER's Operational Procedure on Assessing Emissions and Discharges from Prescribed Premises. Where other references have been used in making the decision they are detailed in the decision document.

<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
<b>General conditions</b>	L1.2.1 – 1.2.3	<p>Generic changes have been made to the General Conditions as part of DER reform and updates to licence templates. These changes include removing conditions referencing the Code of Practice for the Storage and handling of dangerous goods and referring to environmentally hazardous materials. No other changes have been applied to this section.</p> <p>Other general changes have been made to the licence to update it to the current template version. These changes include removing reference to targets and 'no specified conditions' statements and the term director.</p>	N/A.
<b>Premises operation</b>	L – no conditions	<p>Previous condition 1.3.1 for the soil bioremediation facility has been removed as this is a secondary activity, which does not contribute to the nature and type of emissions from the primary activity. This is in accordance with the DERs guidance statement <i>Licencing and works approvals process, September 2015</i>.</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i>.</p> <p>Department of Environment Regulation, Guidance statement <i>Licencing and works approvals process, September 2015</i></p>
<b>Fugitive emissions</b>	L – no conditions	<p><u>Emission Description</u> <i>Emission:</i> Dust generated by heavy vehicle movement on haul roads and stockpile area. The main source of dust is from heavy vehicles operating on haul roads, including the stockpile area which is managed by watering</p>	<p>General provisions of the <i>Environmental Protection Act 1986</i>.</p>



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L= Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		<p>with brine on a regular basis  <i>Impact:</i> Dust coating vegetation causing vegetation death and health impacts on nearby sensitive receptors.  <i>Controls:</i> Minimal dust is produced as a result of salt production. Spraying with brine solution creates a hard seal on the surface to enhance dust suppression. Salt stockpiles do not generate dust.</p> <p><u>Risk Assessment</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Rare  <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u>            Condition 2.6.1 has been removed from the licence as the environmental/health risk of dust emissions associated with the premises is low. General provisions of the <i>Environmental Protection Act 1986</i> and the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> apply.</p> <p><u>Residual Risk</u>  <i>Consequence:</i> Insignificant  <i>Likelihood:</i> Rare  <i>Risk Rating:</i> Low</p>	<p><i>Environmental Protection (Unauthorised Discharges) Regulations 2004.</i></p>
<b>Information</b>	4.2	<p>As part of this amendment the reporting date for the submission of the Annual Environmental Report has been changed from 28 February to 30 April. This will allow sufficient time for the incorporation of information from external consultant reports for the AER and will align this licence with Dampier Salts other DER licences.</p> <p>Generic changes have also been made to the Information conditions as part of DER reform and updates to licence templates. These changes include removing a condition requiring the licensee to notify DER in the</p>	<b>Information</b>



<b>DECISION TABLE</b>			
<b>Works Approval / Licence section</b>	<b>Condition number W = Works Approval L = Licence</b>	<b>Justification (including risk description &amp; decision methodology where relevant)</b>	<b>Reference documents</b>
		event of any failure or malfunction of pollution control equipment or any incident. This is already covered by s72 of the EP Act.	





## 5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
7/01/2016	Proponent sent a copy of draft instrument	No comments received	N/A



## 6 Risk Assessment

*Note: This matrix is taken from the DER Corporate Policy Statement No. 07 - Operational Risk Management*

**Table 1: Emissions Risk Matrix**

Likelihood	Consequence				
	Insignificant	Minor	Moderate	Major	Severe
Almost Certain	Moderate	High	High	Extreme	Extreme
Likely	Moderate	Moderate	High	High	Extreme
Possible	Low	Moderate	Moderate	High	Extreme
Unlikely	Low	Moderate	Moderate	Moderate	High
Rare	Low	Low	Moderate	Moderate	High