



Works Approval

Environmental Protection Act 1986, Part V

Works Approval Holder: Shire of Katanning

Works Approval Number: W5952/2016/1

Registered office: 16-24 Austral Terrace
KATANNING WA 6317

Premises address: Katanning Shire Refuse Site
Crown Reserve 6044 and Crown Reserve 37590
Katanning-Nyabing Road
KATANNING WA 6317
Being Lot 9241 and Part of Lot 9242 on Plan 215173 as depicted in
Schedule 1.

Issue date: Friday, 1 April 2016

Commencement date: Monday, 4 April 2016

Expiry date: Wednesday, 3 April 2019

The following category/s from the *Environmental Protection Regulations 1987* cause this
Premises to be a prescribed premises for the purposes of the *Environmental Protection Act 1986*:

Category number	Category description	Category production or design capacity	Approved premises production or design capacity
57	Used tyre storage (general): premises (other than premises within category 56) on which used tyres are stored.	100 tyres or more	1,000 tyres at any one time
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	500 tonnes or more per year	5,000 tonnes per year
64	Class II putrescible landfill site: premises on which waste (as determined by reference to the waste type set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer and as amended from time to time) is accepted for burial.	20 tonnes or more per year	5,000 tonnes per year



Conditions

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

Date signed: 1 April 2016

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Caron Goodbourn

A/ Manager Licensing (Waste Industries)

Officer delegated under section 20
of the *Environmental Protection Act 1986*



Works Approval Conditions

1 General

1.1 Interpretation

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

1.1.2 In the Works Approval, unless the contrary intention appears:

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

'ACM' means asbestos containing material and has the meaning defined in the Guidelines for Assessment, Remediation and Management of Asbestos Contaminated Sites, Western Australia, (DOH, 2009);

'asbestos' means the asbestiform variety of mineral silicates belonging to the serpentine or amphibole groups of rock-forming minerals and includes actinolite, amosite, anthophyllite, chrysotile, crocidolite, tremolite and any mixture containing 2 or more of those;

'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;

'controlled waste' has the definition in *Environmental Protection (Controlled Waste) Regulations 2004*;

'emergency event' means a '1-in-10' year, 72 hour rainfall event or greater;

'freeboard' means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point;

'hardstand' means a surface with a permeability of 10^{-9} metres/second or less;

'leachate' means liquid released by or water that has percolated through waste and which contains some of its constituents.

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

'Schedule 1' means Schedule 1 of this Works Approval unless otherwise stated;

'Special Waste Type 1' has the meaning defined in Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009), published by the CEO and as amended from time to time;

'Special Waste Type 2' has the meaning defined in Landfill Waste Classification and Waste Definitions 1996 (As amended December 2009), published by the CEO and as amended from time to time;



'Tyre Storage Catchment Area' means an area of the licensed premises that is large enough to fully and effectively contain no less than 162,000 litres (10 litres per second for 3 hydrants for 90 minutes) of Fire Water;

'Works Approval' means this Works Approval numbered W5952/2015/1 and issued under the Act; and

'Works Approval Holder' means the person or organisation named as the Works Approval Holder on page 1 of the Works Approval.

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

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

1.2 General conditions

1.2.1 The Works Approval Holder must ensure that the Works specified in Column 1 of Table 1.2.1 meet or exceed the specifications in Column 2 of Table 1.2.1 for the infrastructure in each row of Table 1.2.1.

1.2.2 The Works Approval Holder must not depart from the specifications in Column 1 and 2 for the infrastructure in each row of Table 1.2.1 except:

- a) where such departure is minor in nature and does not materially change or affect the infrastructure; or
- b) where such departure improves the functionality of the infrastructure and does not increase risks to public health, public amenity or the environment;

and in accordance with all other Conditions in this Works Approval.

Table 1.2.1: Infrastructure to be constructed

Infrastructure	Details
General	Premises includes: <ul style="list-style-type: none">1. fenced with a minimum 1.8 m high security fence;2. signage at entry points identifying waste acceptance types and emergency contact phone numbers;3. implementation of dust mitigation measures during construction;4. steel water storage tank (100,000L);5. drainage swales for "clean" stormwater diverted from upslope of the proposed waste transfer station to reduce inflow to the Waste Transfer and storage areas;6. recycling area to be sealed with '10/7', 2 coat seal to reduce dust with sufficient parking and maneuvering area for 3-4 customers at any given time;7. signage to be erected to identify what wastes can be accepted to the premises and a contact number of the Licensee.
Drum Muster Compound (Chemical/ Hydrocarbon containers)	Existing structure relocated and upgraded/ constructed as: <ul style="list-style-type: none">1. colour bond metal roof, metal mesh walls and a gravel bund and floor;2. bunded, hard stand, clay-lined and designed to contain 110% of the volume of the storage containers/ vessels;3. enclosure size of 12 x 12 m.
Waste Oil	Existing structures relocated and upgraded/ constructed as:



receptacle and drum storage area	<p>Waste oil receptacle -</p> <ol style="list-style-type: none">1. an above ground, bunded, metal tank;2. housed within a bunded, hardstand area, clay-lined 0.5 m thick;3. within a roofed area that is designed to contain 110% of the volume of the storage containers/ vessels;4. raised platform to assist with decanting of waste oils;5. enclosure size of 5 x 5 m; <p>Drum storage area -</p> <ol style="list-style-type: none">6. to contain empty chemical or oil drums/ containers;7. area size 10 x 10 m within the gravel bund and impervious liner;8. housed within a roofed area.
Green waste storage	<p>Constructed of:</p> <ol style="list-style-type: none">1. a clay-lined (0.5 m thick) hardstand with leachate collection and channelling to an evaporation pond;2. area size of 20 x 10 m.
Battery recovery area	<p>Relocated to 'tip shop' area:</p> <ol style="list-style-type: none">1. Placed within a bunded, hardstand area under an awning.
'Tip shop'	<p>Constructed with:</p> <ol style="list-style-type: none">1. a colour bond shed for the sorting and resale of recyclable products;2. awning placed externally of the structure to assist with offloading of recyclable waste;3. Receiving receptacles (Impervious 240 L plastic mobile garbage bins or similar) placed under the awning, external to the shed.
Inert waste type 1 & Green waste storage area	<ol style="list-style-type: none">1. Green waste to be placed upon a concrete hardstand;2. Inert waste type 1 to be placed upon a sealed, hardstand.
Tyre storage area	<p>Constructed of:</p> <ol style="list-style-type: none">1. Bunded, hardstand area, clay lined of approximately 0.5 m thick;2. Catchment area to capture all firewater generated in the event of a tyre fire;3. Area size of approximately 10 x 10 m.
Greenwaste evaporation basin	<ol style="list-style-type: none">1. Designed to contain a '1-in-10' year storm event with a 10% 'annual exceedence probability';2. Designed to hold 9 m³;3. Lined evaporation pond with associated drainage swale for stormwater and leachate runoff collection from the green waste storage area.
Diversion swale	<ol style="list-style-type: none">1. Drainage swales constructed to divert "clean" stormwater from upslope of the proposed waste transfer station to reduce inflow to the Waste Transfer and storage areas;2. Constructed of in-situ soils, approximately 0.5 m deep;3. To channel 'clean' stormwater through culverts and dispersed overland along contours;4. Designed to manage and effectively disperse a '1-in-10' year storm event.
Internal roads	<ol style="list-style-type: none">1. Sealed with '10/7, 2 coat seal' to reduce potential dust emissions;2. Low speed signage to be installed (≤ 10 km/h).



1.2.3 The Works Approval Holder shall construct the works in accordance with the documentation detailed in Table 1.2.2:

Table 1.2.2: Construction Requirements ¹		
Document	Parts	Date of Document
Works Approval Application Supporting Information – Katanning Regional Waste Management Facility Location 9241 Katanning – Nyabing Road. Shire of Katanning, W-A1194.00, FINAL, July 2015. Opus International Consultants (Australia) Pty Ltd.	All, including Drawings and Appendices	July 2015
Works Approval Application – Industry Licensing System.	All, including	10 August 2015
Email: Request for additional information – Katanning Shire Refuse Site Application. Response received from Dr Danny Burkett.	All	18 February 2016

Note 1: Where the details and commitments of the documents listed in condition 1.2.3 are inconsistent with any other condition of this works approval, the conditions of this works approval shall prevail.

1.2.4 The Works Approval Holder shall operate and maintain all dust management equipment (water carts/ tankers and sprays) to the manufacturer's specification or any relevant and effective internal management system, during construction.

1.2.5 In the event that Special Waste Type 1 (Asbestos Containing Material (ACM)) is identified as excavated or uncovered during the works, the Works Approval Holder shall:

- (a) Immediately restrict public access to the Premises until such time as the ACM has been re-covered;
- (b) Minimise further handling of the waste as far as practicable;
- (c) Not re-dispose ACM within two metres of any final surface level at the premises;
- (d) Take preventative measures to minimise the release of asbestos fibres including but not limited to measures such as:
 - (i) wet down ACM prior to handling; and
 - (ii) use shelter or install wind barriers.
- (e) Ensure ACM is covered as soon as practicable with 1000 mm of cover material and by the end of the working day in which the ACM was uncovered;
- (f) Maintain a register of ACM disturbance during the rehabilitation and closure at the Premises which shall include:
 - (i) a plan showing the position of ACM disturbed at the Premises;
 - (ii) details of the disturbed ACM including whether it is friable or non-friable, type, condition and the estimated quantity to be handled;
 - (iii) the date of the disturbance;
 - (iv) the name of the person that discovered the waste; and
 - (v) the burial location of the ACM.

1.2.6 In the event that Special Waste Type 2 (Biomedical and Clinical Waste) is identified as excavated or uncovered during the works, the Works Approval Holder shall:

- (a) Immediately restrict public access to the Premises until such time as the waste has been re-covered;
- (b) Minimise further handling of the waste as far as practicable;
- (c) Not re-dispose Special Waste Type 2 within two metres of any final surface level at the premises;
- (d) Ensure the material is covered as soon as practicable with 1000 mm of cover material;
- (e) Maintain a register of Special Waste Type 2 disturbance during the rehabilitation and closure at the Premises which shall include:



- (i) a plan showing the position of Special Waste Type 2 disturbed at the Premises;
- (ii) the date of the disturbance;
- (iii) the name of the person that discovered the waste; and
- (iv) the type and burial location of the Special Waste Type 2.

2 Information

2.1 Reporting

- 2.1.1 The Works Approval Holder shall submit a compliance document to the CEO, within one month following the construction of the works.
- 2.1.2 The compliance document shall:
 - (a) certify that the works were constructed in accordance with the conditions of the works approval;
 - (b) be signed by a person authorised to represent the Works Approval Holder and contain the printed name and position of that person within the company; and
 - (c) include a copy of the certification issued by a Registered Civil Engineer confirming that the premises contains a Tyre Storage Catchment Area.
- 2.1.3 The Works Approval Holder shall provide the CEO with a list of departures which are certified as complying with Condition 1.2.1 at the same time and from the same professional as the certifications submitted in accordance with Conditions 2.1.1 and 2.1.2.



Schedule 1: Maps

Premises map

The Premises is shown in the map below. The red line depicts the Premises boundary.



[illegible]



Decision Document

Environmental Protection Act 1986, Part V

Proponent: Shire of Katanning

Works Approval: W5952/2016/1

Registered office: 16-24 Austral Terrace
KATANNING WA 6317

Premises address: Katanning Shire Refuse Site
Crown Reserve 6044 and Crown Reserve 37590
Katanning-Nyabing Road
KATANNING WA 6317
Being Lot 9241 and Part of Lot 9242 on Plan 215173

Issue date: Thursday, 17 March 2016

Commencement date: Monday, 21 March 2016

Expiry date: Wednesday, 20 March 2019

Decision

Based on the assessment detailed in this document the Department of Environment Regulation (DER), has decided to issue a works approval. DER considers that in reaching this decision, it has taken into account all relevant considerations.

Decision Document prepared by: Caroline Conway-Physick
Licensing Officer

Decision Document authorised by: Caron Goodbourn
Delegated Officer



Contents

Decision Document	1
Contents	2
1 Purpose of this Document	2
2 Administrative summary	3
3 Executive summary of proposal and assessment	4
4 Decision table	6
5 Advertisement and consultation table	10
6 Risk Assessment	11

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 checked="" type="checkbox"/> New Licence <input type="checkbox"/> Licence amendment <input type="checkbox"/> Works Approval amendment <input type="checkbox"/>	
Activities that cause the premises to become prescribed premises	Category number(s)	Assessed design capacity
	57 – Used tyre storage	1,000 tyres at any one time
	62 – Solid waste depot	5,000 tonnes per annual period
	64 – Class II putrescible landfill site	5,000 tonnes per annual period
Application verified	Date: 12/01/2016	
Application fee paid	Date: 23/02/2016	
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	N/A	
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 type="checkbox"/> No <input checked="" type="checkbox"/>	Referral decision No: Managed under Part V <input type="checkbox"/> Assessed under Part IV <input type="checkbox"/>
Is the proposal subject to Ministerial Conditions?	Yes <input type="checkbox"/> No <input type="checkbox"/>	Ministerial statement No: 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

This decision document is for a works approval for the construction of a Category 62 – Solid Waste Depot for the Katanning Shire Refuse Site (L6919/1997/11).

The Shire of Katanning (Shire) owns and operates the Katanning Shire Refuse Site (L6919/1997/11) located on Lot 9241 on Plan 215173, Katanning-Nyabing Road, Shire of Katanning. The refuse site is currently vested with the Shire of Katanning and zoned for 'Public Purposes' in the Shire of Katanning Town Planning Scheme No. 4.

The Shire are proposing to undertake upgrades to the premises to include a Category 62 – Solid Waste Depot onto their licence by constructing a recycling and transfer station area for the sorting and reuse of:

- inert waste type 1 (scrap metal, construction and demolition waste, white goods, bricks, sand);
- inert waste type 2 (recyclable items such as tyres/ plastics);
- clean fill; and
- green waste and timber products.

The premises upgrades will include the following:

- New weighbridge;
- Relocation of the waste oil and drum muster compounds to be housed within a roofed area;
- Construction of a shed for second hand goods sorting ('Tip shop') with an external awning for unloading;
- Location of receipt receptacles (240 L mobile garbage bins or similar) for recyclables to be stored, and placed under awning;
- Concrete laydown bays constructed from highway barriers or interlocking concrete mass blocks for scrap metal/ white goods or timber;
- Hook lift bulk bin configuration for putrescible waste management;
- Steel 100,000 L fire fighting water tank;
- Installation of new boundary fence (1.8 m);
- Stormwater drainage; and
- Sealed roads.

The recycling amenities are to be placed before the new weighbridge within the premises boundary.

The premises is expected to receive approximately ten vehicle movements per week (two per day).

The premises boundary is to change to include Lot 9241 and Lot 9242 on Plan 215173 which are both vested with the Shire of Katanning. A small amount of native vegetation clearing is required as a result of the construction at the premises (0.58 ha). An application for clearing permit has been submitted to Native Vegetation Clearing Branch.

The median annual average rainfall is 444 mm. Depth to groundwater is approximately 8.2 mBGL with TDS ranging between approximately 3,300 - 9,300 mg/L (moderately saline to saline) measured from monitoring bore 'MB1' and 'MB2' at the premises. Perched groundwater was identified within the premises boundary at test pit 4 (TP4) during the groundwater assessment carried out by Opus International Consultants during the 2011 assessment, at 3.8 mBGL. No surface water bodies exist within the premises boundary with an unnamed seasonal creek located approximately 800 m east of the premises.



Assessment of the soils across the premises by the proponent identified that they are predominantly of very poorly drained sandy clay or silty clay, with generally low permeability assisted by compaction of the premises through operations.

The nearest sensitive receptor is residential and is located approximately 425 m north east (constructed after the Katanning Shire Refuse Site commenced in operation). DER guidance statement for separation distances to sensitive receptors recommends a separation distance of 200 m for the mitigation or management of odour, noise or dust issues for Category 62. The premises is considered compliant to the guidance statement.

The premises is not expected to emit any significant emissions through the construction or operation phase from the area of the proposed upgrades to the premises. Minor dust emissions and minor noise emissions from the normal operations of the premises is expected.



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.

DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
Interpretation	W1.1.1 – 1.1.4 L	<p>Construction Conditions 1.1.1 – 1.1.4 includes terminology used within the Works Approval is referenced to the appropriate definitions where applicable, and that any reference to a standard or guideline is to the most current version of that standard or guideline.</p> <p>Operation Operation is subject to the general provisions of the <i>Environmental Protection Act 1986</i>. Category 62 activities fall under Schedule 1 Part 1 of the <i>Environmental Protection Regulation 1987</i> and may be subject to Licence.</p> <p>An application for an amendment to the current licence under Section 59 of the <i>Environmental Protection Act 1986</i> has not been received with the Works Approval and will be progressed on receipt of the works approval compliance documentation, in accordance with the Works Approval, once submitted by the proponent. The amendment process will then update the licence to reflect the changes undertaken at the premises as a result of the completed works upgrade.</p>	N/A



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L = Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
General conditions	W1.2.1 - 1.2.7	<p>Construction</p> <p><u>Emission Description</u> <i>Emission:</i> Fugitive dust and noise emissions from the construction of infrastructure within the premises boundary as a result of construction machinery. <i>Impact:</i> Reduced local air quality. Interference with the health, welfare, convenience, comfort or amenity of sensitive residential receptors approximately. <i>Controls:</i> The proponent proposes to utilise a water truck during construction phase to water down construction and road areas. Construction vehicle movements will be limited to operating during 7:30am – 5pm on week days only. Roads are to be sealed to diminish any dust lift off from the site and low speed signage will further reduce dust or noise emissions. Distance to the nearest residential receptor is approximately 425 m north-east from the premises boundary.</p> <p><u>Risk Assessment</u> <i>Consequence:</i> Insignificant <i>Likelihood:</i> Possible <i>Risk Rating:</i> Low</p> <p><u>Regulatory Controls</u> Condition 1.2.4 requires the proponent to ensure dust management equipment is operational as per the specifications of the manufacturer or any relevant and effective internal management system.</p> <p>It is considered that the provisions of Section 49 of the <i>Environmental Protection Act, 1986</i>, the <i>Environmental Protection (Noise) Regulation 1997</i> and the <i>Environmental Protection (Unauthorised Discharges) Regulations 2004</i> and are sufficient to regulate dust and noise emissions during construction.</p> <p>The premises construction is expected to result in a short term, intermittent degree of</p>	<p>Application supporting documentation.</p> <p>General provisions of the <i>Environmental Protection Act, 1986</i>.</p> <p><i>Environmental Protection (Noise) Regulations 1997</i>.</p> <p><i>Environmental Protection (Unauthorised Discharges) Regulations, 2004</i>.</p>



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		<p>localised dust and noise. No additional conditions are expected for inclusion into the Licence as a result of an amendment process on completion of the works upgrade.</p> <p><u>Residual Risk</u> <i>Consequence</i>: Insignificant <i>Likelihood</i>: Unlikely <i>Risk Rating</i>: Low</p> <p>Condition 1.2.1 and 1.2.2 defines the specifications for the construction of the facility within the proposed prescribed premises.</p> <p>Condition 1.2.3 defines the supporting documentation used in the determination of the design and construction specifications identified within the works approval.</p> <p>Condition 1.2.4 requires the proponent to ensure dust management equipment is operational as per the specifications of the manufacturer or any relevant and effective internal management system.</p> <p>Condition 1.2.5 and 1.2.6 requires the proponent to undertaken specific actions in the event that Special Waste Type 1 or 2 are encountered during any excavations as a result of the construction activities at the premises.</p>	
Information	W2.1.1 – 2.1.3	<p>Construction</p> <p>Condition 2.1.1 requires a compliance document to be submitted to the CEO within one month on completion of the works upgrade at the premises.</p> <p>Condition 2.1.2 identifies what is to be incorporated within the compliance report.</p> <p>Condition 2.1.3 requires the identification of any departures from the construction</p>	General provisions of the <i>Environmental Protection Act 1986</i> .



DECISION TABLE			
Works Approval / Licence section	Condition number W = Works Approval L= Licence	Justification (including risk description & decision methodology where relevant)	Reference documents
		specifications as defined within condition 1.2.1 of the Works Approval, and in accordance with conditions 2.1.1. and 2.1.2.	
Works Approval Duration	W5952/2016/1	<p>The duration of the works approval is recommended for a period of three years. The proponent is expected to complete all works within one year of the works approval being issued.</p> <p>There are no issues that would limit the issue of the works approval.</p>	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
29/02/2016	Application advertised in West Australian (or other relevant newspaper)	Nil.	N/A
various	Application referred to interested parties listed	Undertaken by the applicant (as per section 8 of the supporting documentation information submitted to DER).	Nil. Over 1,100 community members and stakeholders attended four meetings, advertising, stakeholder workshops and call for comment on the strategic plan, plan for the future and growth plan. Of the submissions received, none made comment on the on the Regional Waste Management Facility.
19/02/2016	Proponent sent a copy of draft instrument	Response received from Andrew Holden via email on 25/02/2016. No changes or 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