



Licence number	L8569/2011/2
Licence holder	Northern Star (Carosue Dam) Pty Ltd
ACN	116 649 122
Registered business address	Level 1, 388 Hay Street SUBIACO WA 6008
DWER file number	2011/005435-1
Duration	07/07/2015 to 06/07/2031
Date of issue	10/08/21
Premises details	Porphyry Gold Mine Legal description – Part of Mining tenements M31/3, M31/4, M31/5, M31/6, M31/30, M31/76, M31/380, M31/381, L31/44, L31/62 and L31/63 As defined by the Premises maps in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 6: Mine dewatering: premises on which water is extracted and discharged into the environment to allow mining of ore.	1 000 000 tonnes per year
Category 64: Class II putrescible landfill site: premises on which waste (as determined by reference to the waste types set out in the document entitled "Landfill Waste Classification and Waste Definitions 1996" published by the CEO and as amended from time to time) is accepted for burial.	Not more than 4 500 tonnes per annual period
Category 73: Bulk storage of chemicals, etc.	Not more than 220 m ³ in aggregate

This licence is granted to the licence holder, subject to the attached conditions, on 10 August 2021, by:

**MANAGER, RESOURCE INDUSTRIES
REGULATORY SERVICES**

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

[L8569/2011/2](#)

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Introduction

This introduction is not part of the licence conditions.

DWER's industry licensing role

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

DWER has responsibilities under Part V of the *Environmental Protection Act 1986* (the Act) for the licensing of prescribed premises. Through this process DWER regulates to prevent, control and abate pollution and environmental harm to conserve and protect the environment. DWER 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 within 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/licence holder 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: <https://www.legislation.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 Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and licence summary

The Porphyry Gold Mine is operated by Northern Star (Carosue Dam) Pty Ltd and located approximately 150 km north-east of Kalgoorlie-Boulder on the Edjudina pastoral lease. The project consists of a series of open pits and underground workings. All ore is transported via the Porphyry haul road to the Carosue Dam processing plant. The operations are currently under care and maintenance.

Licence history

The licence and work approvals issued for the premises are:

Date	Reference number	Summary of changes
12/06/2009	W4536/2009/1	Works approval for the infrastructure and assessment of dewatering Porphyry Pit to Lake Rebecca.
12/06/2009	W4614/2009/1	Works approval to allow construction of pipeline to Million Dollar Pit and onto Lake Rebecca.
06/05/2010	W4649/2010/1	Works approval for Wallbrook dewatering project. Amended in May 2013 to extend the expiry date until May 2016.
27/05/2011	W4909/2011/1	Works approval for the Million Dollar project. Amended in April 2014 to extend the expiry until May 2018.
07/07/2011	L8569/2011/1	New licence issued.

[L8569/2011/2](#)

Date	Reference number	Summary of changes
18/06/2015	L8569/2011/2	Licence re-issue and amendment to REFIRE format.
29/04/2016	L8569/2011/2	Notice of amendment to extend the expiry date of the licence.
16/03/2020	L8569/2011/2	Licence amended to add Category 64 and Category 73 to the licence.
8/10/2021	L8569/2011/2	Transfer of licence from Saracen Gold Mine Pty Ltd to Northern Star (Carosue Dam) Pty Ltd. Administrative amendments limited only to format and appearance of licence and correction of clerical mistakes and unintentional errors.

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

Interpretation

In this licence:

the words ‘including’, ‘includes’ and ‘include’ in conditions mean “including but not limited to”, and similar, as appropriate;

where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

where tables are used in a condition, each row in a table constitutes a separate condition;

any reference to an Australian or other standard, guideline, or code of practice means the version of the standard, guideline, or code of practice in force at the time of granting of this licence and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the licence;

unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This licence requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this licence.

Licence conditions

The licence holder must ensure that the following conditions are complied with:

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 In the licence, unless the contrary intention appears:

'AACR' means Annual Audit Compliance Report, a report in a format approved by the CEO as presented by the licence holder or as specified by the CEO from time to time and published on the department's website and a copy of the AACR form is accessible from the DWER website;

'acceptance criteria' has the meaning defined in Landfill Definitions;

'Act' means the Environmental Protection Act 1986;

'annual period' means the inclusive period from 1 January until 31 December in the following 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 5667.4' means the Australian Standard AS/NZS 5667.4 *Water Quality – Sampling Guidance on sampling from lakes, natural and man-made*;

'AS/NZS 5667.11' means the Australian Standard AS/NZS 5667.11 *Water Quality – Sampling – Guidance on sampling of groundwaters*;

'AS/NZS 5667.12' means the Australian Standard AS/NZS 5667.12 *Water Quality – Sampling – Guidance on sampling of bottom sediments*;

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

'CEO' means Chief Executive Officer of the Department of Water and Environmental Regulation;

'CEO' for the purpose of correspondence means:

Chief Executive Officer
Department Administering the *Environmental Protection Act 1986*
Locked Bag 10
JOONDALUP DC WA 6027
Telephone: (08) 6367 7000
Facsimile: (08) 6367 7001
Email: info@dwer.wa.gov.au

'clean fill' has the meaning defined in Landfill Waste Classification and Waste Definitions 1996 (as amended 2019), published by the CEO and as amended from time to time;

'cover material' means subsoil or other approved inert waste used for covering of waste;

'code of practice for the storage and handling of dangerous goods' means the document titled "Storage and handling of dangerous goods: Code of Practice" published by the Department of Mines, Industry Regulation and Safety (DMIRS), as amended from time to time;

'dangerous goods' has the meaning defined in the *Dangerous Goods Safety (Storage and Handling of Non-explosives) Regulations 2007*;

'DFES' means the Department of Fire and Emergency Services of Western Australia;

'DWER' means Department of Water and Environmental Regulation;

'environmentally hazardous material' means material (either solid or liquid raw materials, materials in the process of manufacture, manufactured products, products used in the manufacturing process, by-products and waste) which if discharged into the environment from or within the premises may cause pollution or environmental harm. Note: Environmentally hazardous materials include dangerous goods where they are stored in quantities below placard quantities. The storage of dangerous goods above placard quantities is regulated by DMIRS;

'Fire Control Officer' in relation to this landfill site, means a person who has such qualifications in firefighting or fire control as are approved, appointed to that position by the licence holder of the landfill site;

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

'fugitive emissions' means all emissions not arising from point sources;

'Inert Waste Type 1' has the meaning defined in Landfill Definitions;

'Inert Waste Type 2' has the meaning defined in Landfill Definitions;

'Landfill Definitions' means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment as amended from time to time;

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

'licence' means this licence numbered L8569/2011/2 and issued under the Act;

'licence holder' means the person or organisation named as licence holder on page 1 of the licence;

'mm' means millimetre;

'mg/L' means milligrams per litre;

'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;

'putrescible' has the meaning defined in Landfill Definitions;

'quarterly' means the four inclusive periods from 1 April to 30 June, 1 July to 30 September, 1 October to 31 December and in the following year, 1 January to 31 March;

'Schedule 1' means Schedule 1 of this licence unless otherwise stated;

'Schedule 2' means Schedule 2 of this licence unless otherwise stated;

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

'usual working day' means 0800 – 1700 hours, Monday to Friday excluding public holidays in Western Australia.

- 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 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 licence.

1.2 General conditions

- 1.2.1 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.
- 1.2.2 The licence holder shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.3 The licence holder, except where storage is prescribed in section 1.3, shall ensure that environmentally hazardous materials are stored in accordance with the code of practice for the storage and handling of dangerous goods.
- 1.2.4 The licence holder shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
- 1.2.5 The licence holder 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.¹

Note¹: The *Environmental Protection (Unauthorised Discharges) Regulations 2004* make it an offence to discharge certain materials into the environment.

1.3 Premises operation

- 1.3.1 The licence holder shall ensure that all pipelines containing environmentally hazardous substances are either:
- a) equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures;
 - b) equipped with automatic cut-outs in the event of a pipe failure; or
 - c) provided with secondary containment sufficient to contain any spill for a period equal to the time between routine inspections.

- 1.3.2 The licence holder shall ensure that any saline dewatering effluent shall only be managed in the following manner:
- a) used for dust suppression in a manner that minimises damage to surrounding vegetation;
 - b) discharged to previously mined pits; or
 - c) discharged to Lake Rebecca.

- 1.3.3 The licence holder shall:
- a) undertake inspections as detailed in Table 1.3.1;
 - b) where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences as soon as practicable; and
 - c) maintain a record of all inspections undertaken.

Table 1.3.1: Inspection of infrastructure		
Scope of inspection	Type of inspection	Frequency of inspection
Dewatering pipelines	Visual integrity	12 hourly when dewatering

- 1.3.4 The licence holder shall undertake an annual assessment of vegetation within the zone of influence of any dewatering discharge lakes when discharge to Lake Rebecca is in operation. The assessment shall:
- a) photograph and record the presence and condition of key vegetation features within the zone of influence;
 - b) compare the results of the assessment against previous years assessments and identify whether any deterioration in the presence and/or quality of vegetation has taken place; and
 - c) be undertaken by a person suitably qualified in vegetation identification and sampling.
- 1.3.5 During annual periods where discharge to Lake Rebecca occurs, the licence holder shall undertake an annual dewatering discharge assessment to show that mine dewatering discharges to the receiving environment are not having any adverse environmental impact. The assessment shall include:
- a) a site description (aerial photographs etc.), including plan showing dewatering discharge point(s);
 - b) topographical and meteorological data;
 - c) hydrology – catchment, rainfall and evaporation, runoff etc.;
 - d) significance of waterbody/watercourse with respect to flora and fauna;
 - e) waterbody/watercourse levels as a result of rainfall events (with respect to the seasonality of the waterbody/watercourse);
 - f) dewater discharge (volume and quality) as compared to runoff into the waterbody/watercourse and water quality (salt and metals) of the receiving waters;

- g) the area of the waterbody/watercourse likely to be affected by the dewater discharge and effects on waterbody/watercourse levels resulting from the discharge;
- h) the potential for water to flow along/out of the receiving waterbody/watercourse;
- i) if dewatering occurs to a creek system (permanent or ephemeral), it will also be necessary to consider the consequences of the alteration of the receiving environment, especially with respect to the impacts on vegetation and existing ecosystems;
- j) water balance estimates – including dewater and non-dewater scenarios (with and without consideration of runoff events);
- k) chemistry of the waterbody/watercourse – including dewater and non-dewater scenarios (with and without consideration of runoff events);
- l) a comparison between each year’s monitoring data and that of all available data from previous years since mining commenced; and
- m) findings (including trends), conclusions and recommendations.

1.3.6 The licence holder shall ensure that where waste produced on the premises are not taken off-site for lawful use or disposal, they are managed in accordance with the requirements in Table 1.3.2.

Table 1.3.2: Waste management table		
Waste type	Process(es)	Process limits¹
Inert Waste Type 1	Disposal of less than 5,000 tonnes of waste by landfilling	All waste types must meet acceptance criteria for Class II landfills. Disposal of waste by landfilling shall only take place within the landfill area shown on the landfill location map in Schedule 1. Tyres may also be buried within the waste rock dumps. Less than 100 car tyre equivalents are to be buried at any one time. The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2 m.
Inert Waste Type 2		
Putrescible waste (including green waste)		

Note 1: Additional requirements for the acceptance of controlled waste (including tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

1.3.7 The licence holder shall ensure that where waste does not meet the waste management criteria set out in condition 1.3.6 it is removed from the premises by the delivery vehicle or, where that is not possible, stored in a segregated storage area or container and removed to an appropriately authorised facility as soon as practicable.

1.3.8 The licence holder shall manage the landfilling activities to ensure that waste is covered at least fortnightly.

1.3.9 The licence holder shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.3 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.3: Cover requirements ¹	
Waste Type	Cover requirements
Inert Waste Type 1	No cover required
Inert Waste Type 2	To be covered fortnightly in which the waste was deposited with sufficient quantities of Type 1 inert waste, clean fill or other appropriate cover material to prevent the spread of fire and harbouring of disease vectors. A minimum depth of 500 mm of soil cover is maintained over the buried tyres following disposal.
Putrescible wastes	

Note 1: Additional requirements for final cover of tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

1.3.10 The licence holder shall implement control measures to prevent infestations of pests, flies and vermin at the premises.

1.3.11 The licence holder shall ensure that windblown waste is collected on at least a weekly basis and returned to the tipping area.

1.3.12 The licence holder shall ensure that there are appropriate equipment in place at the premises so that any unauthorised fire is promptly extinguished.

1.3.13 The licence holder shall ensure that hydrocarbons and mine dewater are only stored within vessels or containment cells provided with the infrastructure detailed in Table 1.3.4.

Table 1.3.4: Containment infrastructure		
Containment cell	Material	Infrastructure requirements
Bulk fuel yard within the project area	C1 combustible liquid (diesel)	2 x 110 kL self bunded wrap tanks, located within a concrete/compacted clay or high density polyethylene lined area. Fitted with a high level mechanical float switch.
Mine dewatering turkeys nest dams 1, 2 and 3	Mine dewater	Lined with a 1.0 mm HDPE liner.
Landfill trench	Putrescible waste, Inert waste type 1 and 2	Landfill trench with sufficient cover material located within the footprint of the waste rock dump.

1.3.14 The licence holder must construct and maintain the infrastructure in Column 1 of Table 1.3.5 in accordance with the requirements specified in Column 2 of Table 1.3.5, at the locations referenced in Column 3 of Table 1.3.5.

Table 1.3.5: Infrastructure and equipment requirements		
Column 1	Column 2	Column 3
Infrastructure/Equipment	Requirements (design and construction)	Site plan reference
Mine dewatering turkeys nest dam 1	<ul style="list-style-type: none"> Lined with a 1.0 mm UV resistant HDPE liner; Designed to provide a 300 mm freeboard; and Fauna egress ladders/nets to be installed at each corner of turkeys nest. 	Schedule 1, Figure 4
Mine dewatering turkeys nest dam 2	<ul style="list-style-type: none"> Lined with a 1.0 mm UV resistant HDPE liner; Designed to provide a 300 mm freeboard; and Fauna egress ladders/nets to be installed at each corner of turkeys nest. 	Schedule 1, Figure 4
Mine dewatering turkeys nest dam 3	<ul style="list-style-type: none"> Lined with a 1.0 mm UV resistant HDPE liner; Designed to provide a 300 mm freeboard; and Fauna egress ladders/nets to be installed at each corner of turkeys nest. 	Schedule 1, Figure 4
Hydrocarbon/chemical storage area	<ul style="list-style-type: none"> Store environmentally harmful materials in secured, impervious and bunded areas. Bunded areas to have a minimum capacity of 110% of the largest container stored within it, or 25% of the volume of all containers, whichever is the larger. 	Not shown
Landfill	Trenches to be constructed with the following nominal dimensions – 50 m long, 5 m wide and 6 m deep.	Schedule 1, Figure 4

1.3.15 The licence holder must not depart from the requirements specified in Table 1.3.5 except:

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

1.3.16 The licence holder shall submit a construction compliance document to the CEO, following construction of the infrastructure listed in Table 1.3.5 and prior to operation.

1.3.17 The licence holder must ensure the construction compliance document required by condition 1.3.16:

- a) is certified by a qualified engineer stating that each item of infrastructure specified in Table 1.3.5 has been constructed in accordance with the conditions of the licence;
- b) lists any departures, if applicable and as authorised by condition 1.3.15, from the requirements of Table 1.3.5 and demonstrates that those departures have not increased the risk to public health, public amenity or the environment; and
- c) be signed by a person authorised to represent the licence holder and contain the printed name and position of that person within the company.

2 Emissions

2.1 General

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

2.2 Point source emissions to surface water

2.2.1 The licence holder 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.

Table 2.2.1: Emission points to surface water		
Emission point reference	Description	Source including abatement
Lake Rebecca discharge point	Dewatering water from the Million Dollar project	Saline mine dewater

2.3 Point source emissions to groundwater

2.3.1 The licence holder shall ensure that where waste is emitted to groundwater from the emission points in Table 2.3.1 it is done so in accordance with the conditions of this licence.

Table 2.3.1: Emission points to groundwater		
Emission point reference	Description	Source including abatement
Porphyry pit	Saline mine dewater	Water from dewatering of Million Dollar pit

2.3.2 The licence holder shall not cause or allow point source emissions to groundwater that do not meet the limits listed in Table 2.3.2.

Table 2.3.2: Point source emission limits to groundwater			
Emission point reference	Parameter	Limit (including units)	Averaging period
Porphyry pit	Freeboard	>6 mbgl	Spot sample

2.4 Dust emissions

2.4.1 The licence holder shall use all reasonable and practical measures to prevent, or where that is not practicable, to minimise dust emissions from the premises.

3 Monitoring

3.1 General monitoring

3.1.1 The licence holder shall ensure that:

- a) all water samples are collected and preserved in accordance with AS/NZS 5667.1;
- b) all groundwater sampling is conducted in accordance with AS/NZS 5667.4; AS/NZS 5667.6 or AS/NZS 5667.9 as relevant;
- c) all sediment sampling is conducted in accordance with AS/NZS 5667.12; and
- d) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters to be measured unless indicated otherwise in relevant table.

3.1.2 The licence holder 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) annual monitoring is undertaken at least 9 months apart.

3.2 Monitoring of point source emissions to surface water

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

Table 3.2.1: Monitoring of point source emissions to surface water			
Emission point reference	Parameter	Units	Frequency
Dewatering discharge outlet point to Lake Rebecca	Volumetric flow total	kL	Monthly – when in operation
	pH ¹	-	Quarterly – when in operation
	Hydrocarbons	ug/L	

Table 3.2.1: Monitoring of point source emissions to surface water			
Emission point reference	Parameter	Units	Frequency
	Total dissolved solids (TDS) ¹	mg/L	
	Total suspended solids (TSS)		
	Cadmium, selenium, iron, cobalt, lead, copper, nickel, zinc, arsenic, chromium, sodium, potassium, calcium, manganese, chloride, bicarbonate and sulphate		

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

3.3 Monitoring of point source emissions to groundwater

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

Table 3.3.1: Monitoring of point source emissions to groundwater			
Emission point reference	Parameter	Units	Frequency
Porphyry pit	Volumetric flow total	kL	Monthly – when in operation
	Freeboard	metres below crest level	Six monthly – when in operation
	pH ¹	-	Quarterly – when in operation
	Total Dissolved Solids (TDS) ¹	mg/L	Quarterly – when in operation

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

3.4 Monitoring of inputs and outputs

3.4.1 The licence holder shall undertake the monitoring specified in Table 3.4.1.

Table 3.4.1 Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste inputs	Inert 1, inert 2, clean fill, putrescible waste, waste that complies with Class II criteria in the document titled "Landfill Waste Classification and Waste Definitions" 1996	tonnes (wherea weighbridge is present on the site)	N/A	After each landfill trench is filled

Table 3.4.1 Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Waste outputs	Waste type as defined in the Landfill Waste Classification and Waste Definitions 1996	m ³ (where no weighbridge is present)		Each load leaving or rejected from the premises

3.5 Ambient environmental quality monitoring

3.5.1 The licence holder shall undertake the monitoring in Table 3.5.1 according to the specifications in that table.

Table 3.5.1: Monitoring of ambient sediment quality				
Monitoring point reference and location	Parameter	Units	Averaging period	Frequency
50, 100 and 200 m from dewatering discharge outlet point to Lake Rebecca	pH ¹	-	Spot sample	Annually when in operation.
	TDS ¹	mg/L		
	Total soluble solids,			
	Cadmium, selenium, iron, cobalt, lead, copper, nickel, zinc, arsenic, chromium, sodium, potassium, calcium, manganese, chloride, bicarbonate, sulfate.			
	Salt crust thickness	mm		

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

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 six 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 or any subsequent licence:

- i. off-site environmental effects; or
- ii. matters which affect condition of the land or waters.

4.1.2 The licence holder 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 licence holder shall complete an Annual Audit Compliance Report indicating the extent to which the licence holder 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 licence holder 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 licence holder shall submit to the CEO an Annual Environmental Report by 31 March in each year. The report shall contain the information listed in Table 4.2.1 in the format or form specified in that table.

Table 4.2.1: Annual environmental report		
Condition or table (if relevant)	Parameter	Format or form
-	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
1.3.5	Annual dewatering discharge report.	None specified
1.3.10	Measures to prevent infestations of pests, flies and vermin at the premises.	
1.3.11	The measures taken to control windblown waste.	
Table 3.2.1	Monitoring of point source emissions to surface water.	
Table 3.3.1	Monitoring of point source emissions to groundwater.	
Table 3.4.1	Monitoring of inputs and outputs.	Tabular
Table 3.5.1	Monitoring of ambient sediment quality.	None specified
4.1.3	Compliance.	AACR
4.1.4	Complaints summary.	None specified

4.2.2 The licence holder shall submit the information in Table 4.2.2 to the CEO according to the specifications in that table.

Table 4.2.2: Non-annual reporting requirements				
Condition or table (if relevant)	Parameter	Reporting period	Reporting date	Format or form
-	Copies of original monitoring reports submitted to the licence holder by third parties	Not Applicable	Within 14 days of the CEO's request	As received by the licence holder from third parties

4.3 Notification

4.3.1 The licence holder 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.

Table 4.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement¹	Format or form²
1.3.12	Unauthorised fire	Within fourteen (14) days of an unauthorised fire as per condition 1.3.12 of this licence.	None specified
2.3.2	Limit exceedance where management action taken	As soon as practicable but no later than 5pm of the next usual working day.	None specified
2.1.1	Breach of any limit specified in the licence	Part A: As soon as practicable but no later than 5 pm of the next usual working day.	N1
-	Any failure or malfunction of any pollution control equipment or any incident, which has caused, is causing or may cause pollution	Part B: As soon as practicable.	
-	Intention for the site to recommence normal operations from care and maintenance status	At least 30 calendar days prior to site recommencing operations.	None specified

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 boundary of the prescribed premises is shown in the map below (Figure 1).

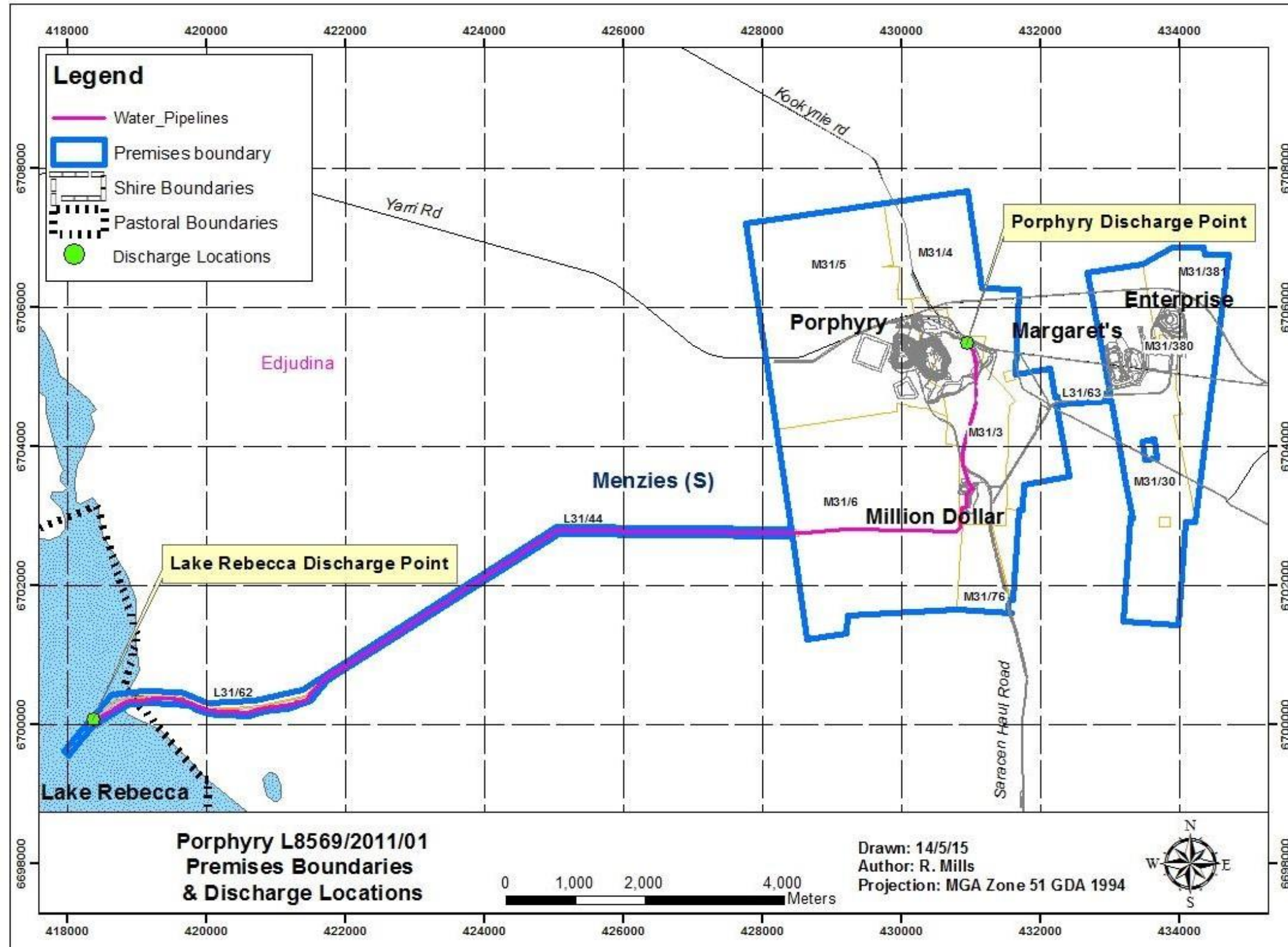


Figure 1: Map of the boundary of the prescribed premises

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IR-T06 Licence template (v7.0) (February 2020)

Map of emission points

The location of the emission point defined in Table 2.3.1 is shown below (Figure 2).

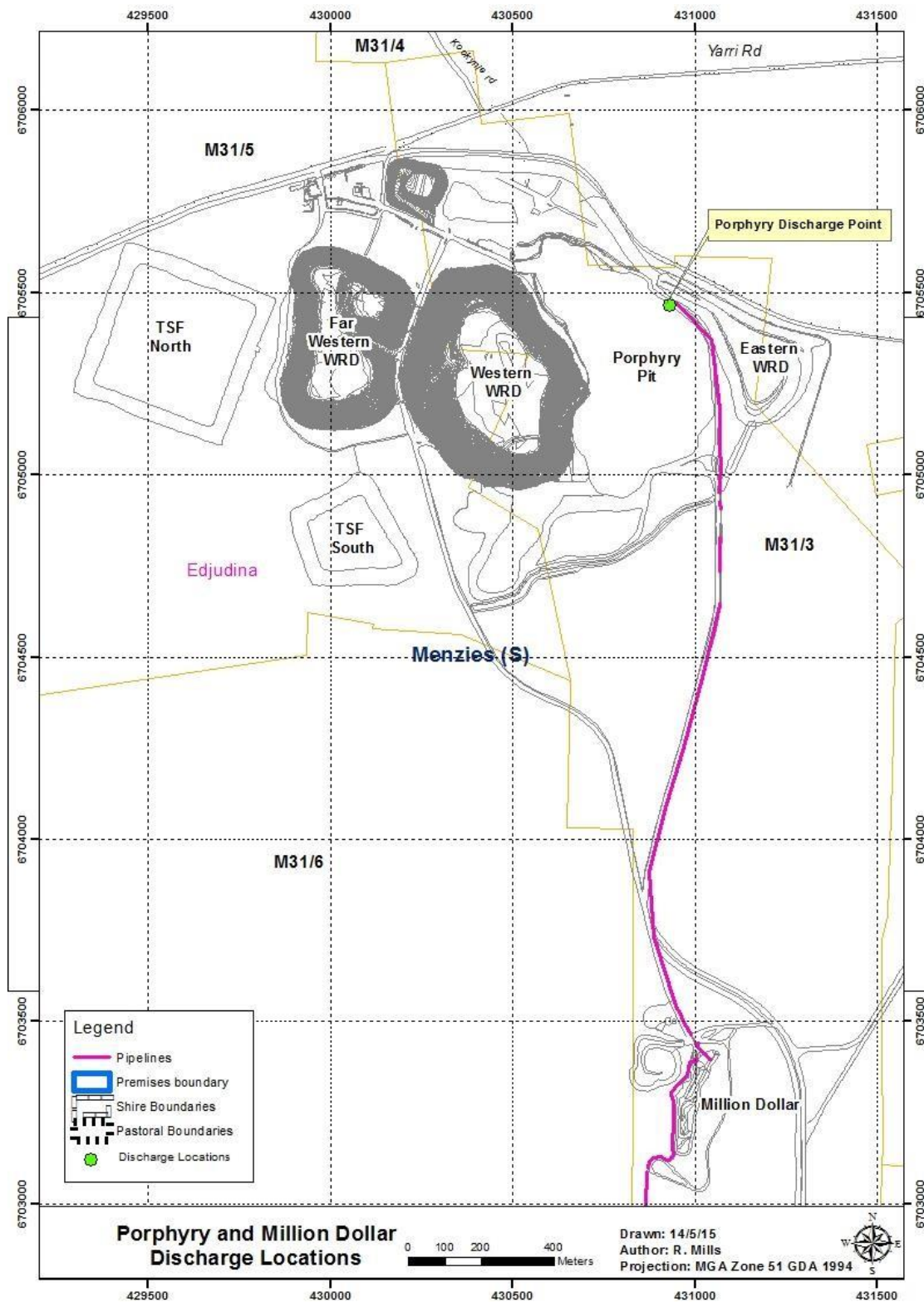


Figure 2: Emission point location

Map of monitoring locations

The locations of the monitoring points defined in Tables 3.8.1 are shown in the below (Figure 3).

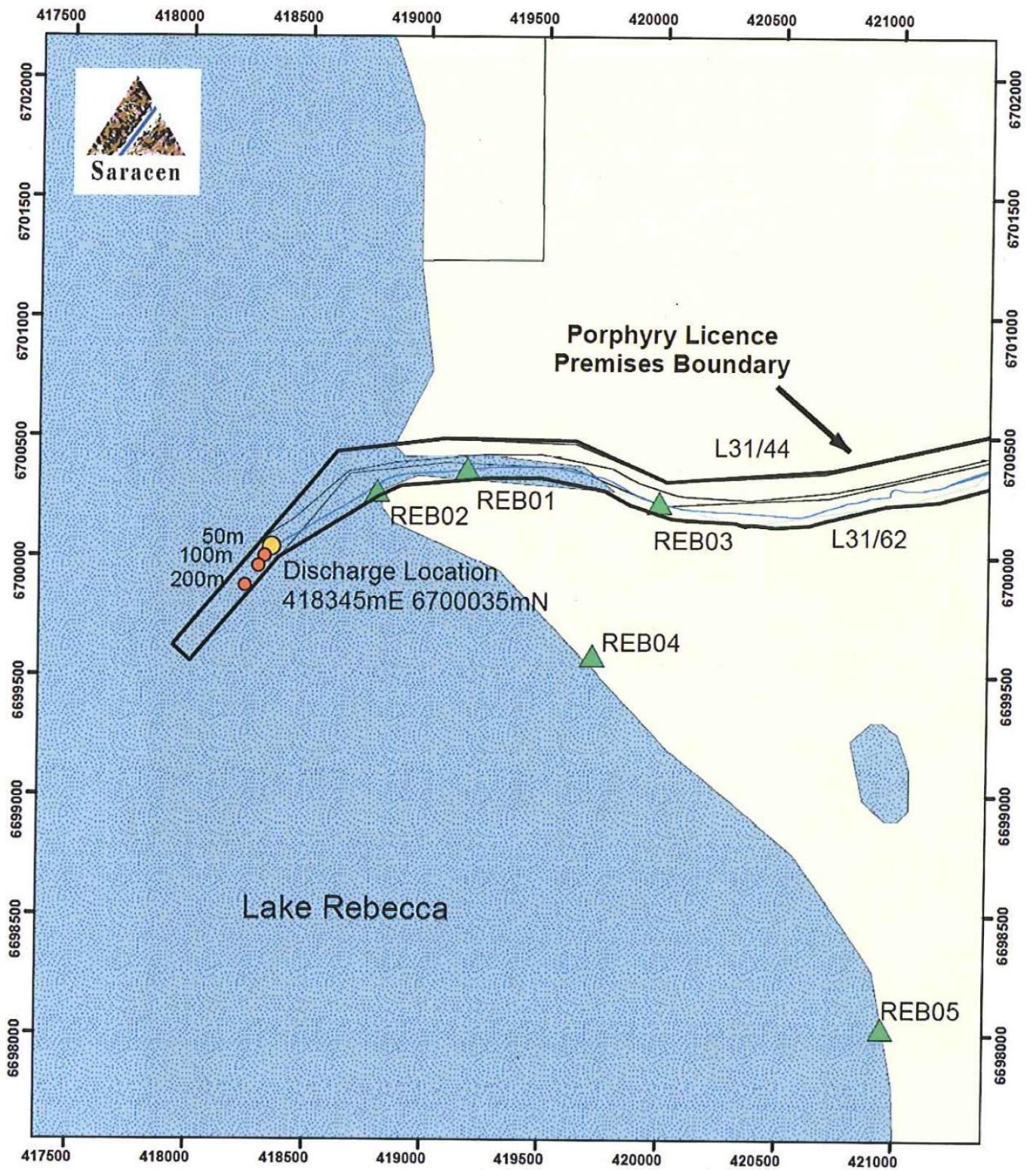


Figure 3: Monitoring point locations

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Map of landfill and saline water storage dam location

The location of the landfill and turkeys nest dams are shown in the map below (Figure 4).

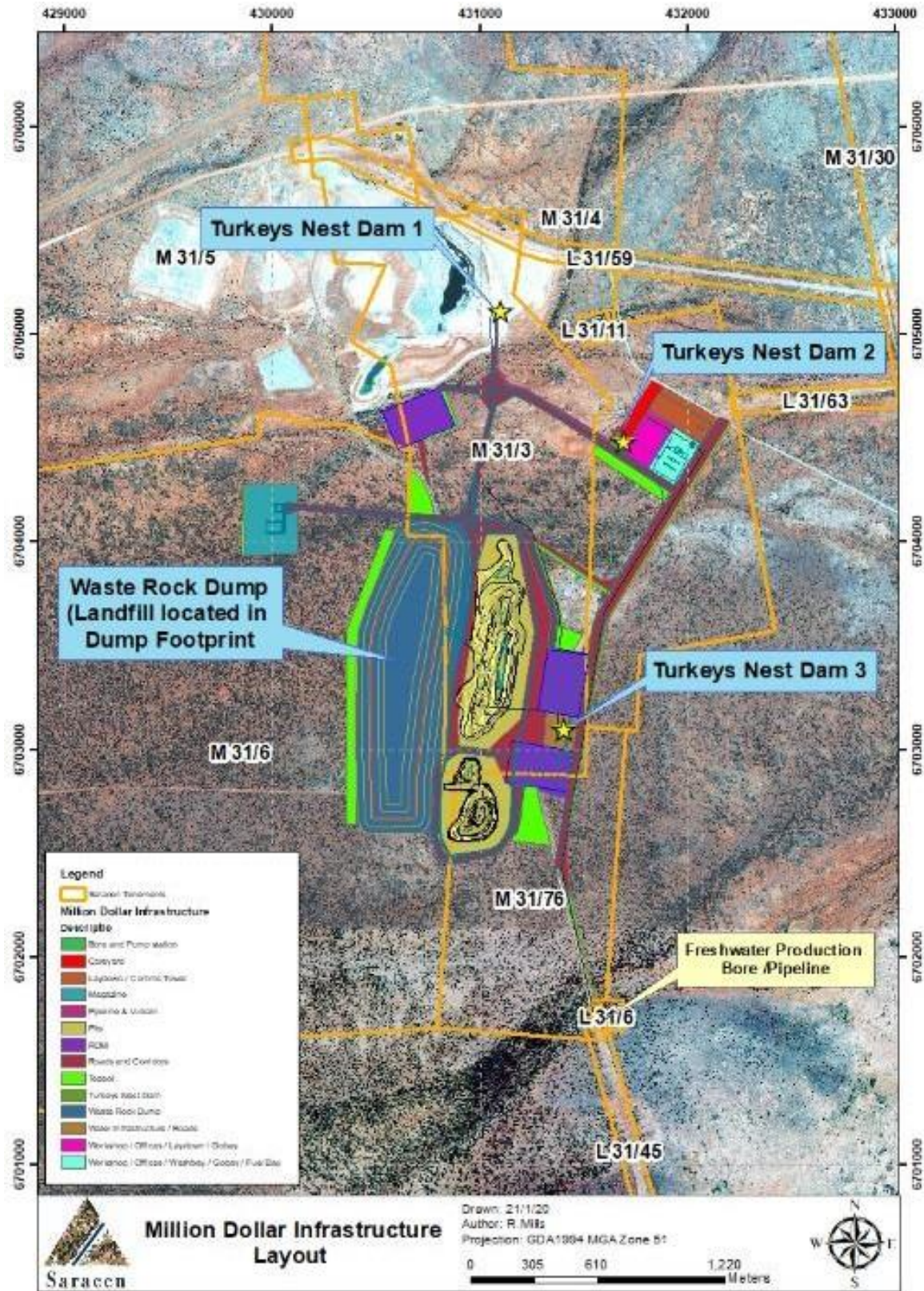


Figure 4: Landfill and Turkeys nest dams location

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Schedule 2: Reporting & notification forms



Government of **Western Australia**
Department of **Water and Environmental Regulation**

Licence:

Form: N1

Licence holder:

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	

Notification requirements for the breach of a limit	
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 licence holder	
Date	