



Government of **Western Australia**
Department of **Environment Regulation**

Your ref: L8664/2012/1
Our ref: 2012/006871
Enquiries: Clarrie Green
Phone: (08) 9083 2125
Fax: (08) 9021 7831
Email: Clarrie.green@der.wa.gov.au

Elizabeth Johnston
Lanfranchi Nickel Mines Pty Ltd
PO Box Z5487
PERTH WA 6831

Dear Ms Johnston,

ENVIRONMENTAL PROTECTION ACT 1986 – AMENDMENT TO LICENCE

Further to my letter dated 7 May 2015 please find enclosed your amended *Environmental Protection Act 1986* licence.

If you have any questions or objections relating to the licence, please do not hesitate to contact the enquiries officer above on (08) 9083 2125 for clarification or discussion of any grievances you have.

If you are concerned about, or object to any aspect of the amendment, you may lodge an appeal with the Minister for the Environment within 21 days from the date on which this licence is received. The Office of the Appeals Convenor can be contacted on 6467 5190 to find out the procedure and fee.

Members of the public may also appeal the amendments. The Appeals Registrar at the Office of the Appeals Convenor can be contacted after the closing date of appeals to check whether any appeals were received.

Yours sincerely

Danielle Eyre
Officer delegated under Section 20
of the *Environmental Protection Act 1986*

11 June 2015

enc:
copy to: Local Government Authority:

TL0571 v2.0



Licence

Environmental Protection Act 1986, Part V

Licensee: Lanfranchi Nickel Mines Pty Ltd

Licence: L8664/2012/1

Registered office: Lanfranchi Nickel Mines Pty Ltd
Level 9, 553 Hay Street
Perth WA 6000

ACN: 110 078 263

Premises address: Lanfranchi Nickel Mine
Mineral Lease ML15/346, ML15/347, ML15/377, ML15/385, ML15/386,
ML15/387, ML15/388, ML15/486, ML15/487, ML15/493 and Mining
Lease M15/473
KAMBALDA WA 6429 as depicted in Schedule 1.

Issue date: Thursday, 11 October 2012

Commencement date: Monday, 15 October 2012


Expiry date: Saturday, 14 October 2017

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
61A	Solid waste facility	1000 tonnes or more per year	876 000 cubic metres per annual period
85	Sewage facility	More than 20 but less than 100 cubic metres per day	80 cubic metres per day
89	Putrescible landfill site	More than 20 but less than 5000 tonnes per year	2 500 tonnes per annual period

Conditions

Subject to this Licence and the conditions set out in the attached pages.


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



Contents

Licence	1
Contents	2
Introduction	2
Licence conditions	5
1 General	5
2 Emissions	11
3 Monitoring	12
4 Improvements	13
5 Information	14
Schedule 1: Maps	16
Schedule 2: Reporting & notification forms	19

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 works with the business owners, community, consultants, industry and other representatives 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 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/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 Environment. You are required to comply with any conditions imposed by the Minister.

Premises description and licence summary

The Lanfranchi project is owned and operated by Lanfranchi Nickel Mines Pty Ltd (LNM), a fully owned subsidiary of Panoramic. The Lanfranchi Project is located in the Coolgardie Mineral Field, approximately 90 kilometres south of Kalgoorlie and 40 kilometres south of Kambalda comprising Mineral Leases (ML 15/346 – 347; ML 15/377, ML15/385 – 388, ML15/486 – 487, ML 15/493) and Mining lease M15/473.

The Lanfranchi Nickel Mine (Lanfranchi), has been assessed as prescribed premises under category numbers 61A – solid waste facility, 85 – sewage facility and 89 – putrescible landfill, under Schedule 1 of the Environmental Protection Regulations 1987 (EP Regs). No crushing or nickel processing occurs onsite with nickel-bearing ore being hauled offsite by road trains.

Between 2004 and 2012 Lanfranchi had been operating without a licence and there were no works approvals for the construction of the paste plant or landfill. At the start of 2011, Panoramic Resources Limited (Panoramic) became aware that the site required a licence to operate and initiated contact with the DEC (now DER) regarding the situation. The matter of these facilities being constructed without a works approval and operating without a licence is under Incidents and Complaints Management System (ICMS) number 25886.

Category 61A – Solid waste facility:

A paste plant is operated on-site to help construct ground supports in underground mine operations. Tailings are sourced off-site, transported from Goldfields Limited and stockpiled prior to use in the paste plant. All reject material (consisting of cement, tailings and water) is disposed of into a sump, which is then periodically placed into the paste rejects dam. A secondary containment area is located behind the main rejects dam to capture any excess material from this facility.

Category 85 – Sewage facility:

There are two WWTPs at Lanfranchi. The larger of the two plants, services the Lanfranchi Village with an approximate occupancy rate of 100 people and a throughput of 40 cubic metres per day (m³/day). The smaller plant is to service the mine administrative area. The throughput for the mine administration area WWTP is approximately 20 m³/day.

Category 89 – Putrescible landfill site:

The landfill is located adjacent to the Lanfranchi waste rock dump where inert and putrescible wastes are disposed of in trenches. Putrescible waste generated from the Lanfranchi Village may be disposed of offsite to the Kambalda landfill facility from time to time through a service agreement with the Shire of Coolgardie. Approximately 1000m³ per year of inert and putrescible waste is currently disposed of in the landfill.



This Licence amendment is the result of an application sought by the licensee to increase the volume of waste deposited at the landfill from 1,000 m³ to 1,500 m³ per year. No changes to the landfilling practices or landfill area are proposed and no reassessment of Lanfranchi activities was conducted during the amendment.

The licences and works approvals issued for the Premises since February 2014 are:

Instrument log		
Instrument	Issued	Description
L8664/2012/1	20/06/2014	Licence converted to REFIRE format
L8664/2012/1	04/06/2015	Amendment to increase the maximum approved throughput at the landfill

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 July until 30 June in the following year;

'AS 4323.1' means the Australian Standard AS4323.1 *Stationary Source Emissions Method 1: Selection of sampling positions*;

'AS/NZS 2031' means the Australian Standard AS/NZS 2031 *Selection of containers and preservation of water samples for microbiological analysis*;

'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 5667.10' 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;

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

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

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

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

'CEO' for the purpose of correspondence means;

Manager Licensing (Resources South)
Department of Environment Regulation
PO Box 10173
KALGOORLIE WA 6433
Telephone: (08) 9080 5555
Facsimile: (08) 9021 7831
Email: industry.regulation@der.wa.gov.au;

'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 the Department of Mines and Petroleum;

'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 identified in sections 2.2, 2.3, 2.4 and 2.5;

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

'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.

'Licence' means this licence numbered L8664/2012/1 and issued under the Act;

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

'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;

'normal operating conditions' means any operation of a particular process (including abatement equipment) excluding start-up, shut-down and upset conditions, in relation to stack sampling or monitoring;

'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 waste' has the meaning defined in Landfill Definitions;

'quarantined storage area or container' means a hardstand storage area or sealed-bottom container that is separate and isolated from authorised waste disposal areas and is capable of containing all non-conforming waste and its constituents, these areas must be clearly marked and their access restricted to authorised personnel;

'quarterly' means the 4 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;

'rehabilitation' means the completion of the engineering of a landfill cell and includes capping and/or final cover;

'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;

'USEPA' means United States (of America) Environmental Protection Agency;

'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 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.

1.2 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 Licensee shall operate and maintain all pollution control and monitoring equipment to the manufacturer's specification or any relevant and effective internal management system.
- 1.2.3 The Licensee, 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 Licensee shall immediately recover, or remove and dispose of spills of environmentally hazardous materials outside an engineered containment system.
- 1.2.5 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.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 Licensee shall ensure where saline water is used for dust suppression, damage to surrounding vegetation is avoided.
- 1.3.2 The Licensee shall ensure all vehicle washdown areas consist of hardstand area to allow the containment of wastewater. Wastewater shall be directed through a fuel/oil trap prior to discharge into a lined facility.
- 1.3.3 The Licensee shall ensure that all pipelines containing environmentally hazardous materials are either:
- (a) bunded; or
 - (b) equipped with automatic cut-outs and alarm system to arrest flow and announce any pipe failure.
- 1.3.4 The Licensee shall ensure that where pipelines are bunded, the bunds are adequately constructed to ensure they are not breached during a spill.



- 1.3.5 The Licensee shall only allow waste to be accepted on to the Premises if:
- (a) it is of a type listed in Table 1.3.1; and
 - (b) the quantity accepted is below any limit listed in Table 1.3.1; and
 - (c) it meets any specification listed in Table 1.3.1.

Table 1.3.1: Waste acceptance		
Waste	Quantity Limit	Specification ¹
Tailings	876,000 tonnes per annual period	None specified
Sewage	80 m ³ /day	Accepted through sewer inflow(s) only
Clean fill	2,500 tonnes per annual period	None specified
Inert Waste Type 1		
Putrescible waste		
Inert Waste Type 2		Tyres and plastic only

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

- 1.3.6 The Licensee shall ensure that where waste does not meet the waste acceptance criteria set out in condition 1.3.5 it is stored in a quarantined storage area or container and removed from the Premises to an appropriately authorised facility as soon as practicable.
- 1.3.7 The Licensee shall ensure that irrigation of treated wastewater from the village wastewater treatment facility meets the following requirements:
- (a) wastewater is evenly distributed over the irrigation area;
 - (b) no soil erosion or protracted waterlogging or ponding of wastewater occurs;
 - (c) a healthy vegetation cover is maintained over the effluent application area;
 - (d) there is no direct runoff, spray drift or discharge beyond the boundaries of the irrigation area;
 - (e) irrigation shall be avoided, where practicable, during periods of rainfall or onto flooded areas; and
 - (f) irrigation shall not occur on areas with a slope greater than 10%.
- 1.3.8 The Licensee shall manage the effluent storage ponds in a manner such that:
- (a) stormwater run-off resulting from roof and site drainage does not cause erosion of outer pond embankments;
 - (b) stormwater shall only be discharged to the ponds in a controlled manner (eg piped) such that erosion of pond embankments or overtopping does not occur;
 - (c) extreme rainfall events do not cause overtopping of the ponds;
 - (d) there is no discernible seepage loss from the ponds; and
 - (e) vegetation (emergent or otherwise) shall be prevented from growing in the pond wastewaters or on the inner pond embankments of all ponds.



- 1.3.9 The Licensee shall ensure that decant water and/or effluent are only discharged into containment cells and/or dams or ponds with the relevant infrastructure requirements and at the locations specified in Table 1.3.2.

Table 1.3.2: Containment infrastructure			
Containment point reference	Containment cell or dam number(s)	Material	Infrastructure requirements
C1	Dry tailings storage pad for the solid waste facility	1000 tonnes or more per year of materials sourced from off-site	All dry tailings accepted onsite are stored on an established hardstand area consisting of waste rock and road base. Sprinklers used for dust suppression.
C2	Reject product dams (2) for the solid waste facility	Rejects and stormwater collected from solid waste facility area	Compacted clay lined and a minimum top of embankment freeboard of 300mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained.
C3	Secondary containment for the reject product dams	Reject sump material	Lined with compacted clay and a minimum top of embankment freeboard of 300mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained.
C4	Sump for spills and rejects from batch plant	Batch plant washdown	Concrete lined sump with a minimum top of embankment freeboard of 300mm or a 1 in 100 year/72 hour storm event (whichever is greater) is maintained.

- 1.3.10 The Licensee shall dispose of collected screenings, grit and floating debris from the waste water treatment plant to a premises licensed to receive this specific class of waste.
- 1.3.11 The Licensee shall ensure that wastes accepted onto the landfill are only subjected to the process(es) set out in Table 1.3.3 and in accordance with any process limits described in that table.

Table 1.3.3: Waste processing		
Waste type(s)	Process	Process limits ^{1,2}
All	Disposal of waste by landfilling	<p>No waste shall be temporarily stored or landfilled within 35 metres from the boundary of the Premises.</p> <p>The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m.</p> <p>The Licensee shall manage the landfill site in such a manner that:</p> <ul style="list-style-type: none"> (i) wastes are placed within a defined trench or within an area enclosed by earth bunds; (iii) a suitable barrier is installed and well maintained to prevent windblown waste leaving the disposal area; (iv) a sign is erected and maintained at the entrance to the premises of the landfill site which clearly states the types of materials that can be accepted; and (v) no waste is to be burnt and fire fighting gear is readily available which is suitable for extinguishing any accidental or malicious fires.
Inert Waste	Disposal of	Tyres shall only be disposed of in the active tip face of the Lanfranchi



Type 2 - Tyres	waste by landfilling	Waste Rock Dump and landfilled: (a) in batches separated from each other by at least 100 mm of soil and each consisting of not more than 40 cubic metres of tyres reduced to pieces; or (b) in batches separated from each other by at least 100 mm of soil and each consisting of not more than 1,000 whole tyres.
Putrescible Waste	Receipt, handling and disposal by landfilling	Shall only be disposed within the landfill area shown on the Landfill Area Map in Schedule 1.
Clean Fill		
Inert Waste Type 1		

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations 1987*.

Note 2: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*.

1.3.12 The Licensee shall manage the landfilling activities to ensure:

- (a) the size of the tipping face is kept to a minimum and not larger than 30 m in length;
- (b) waste is placed and compacted to ensure all faces are stable and capable of retaining cover material.

1.3.13 The Licensee shall ensure that cover is applied to waste in accordance with Table 1.3.4 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.4: Cover requirements

Waste Type	Material	Depth	Timescales
Putrescible Wastes	Inert and incombustible material	Sufficient to ensure the waste is completely covered and that no waste is exposed	Fortnightly or as soon as practicable after deposit and prior to compaction
Inert Waste Type 1			
Inert Waste Type 2	Inert waste type 1 or soil	100 mm	

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

1.3.14 The Licensee shall take all reasonable and practical measures to ensure that no wind-blown waste escapes from the Premises and that wind-blown waste is collected on at least a monthly basis and returned to the tipping area.



2 Emissions

2.1 General

- 2.1.1 The Licensee 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 air

There are no specified conditions relating to point source emissions to air in this section.

2.3 Point source emissions to surface water

There are no specified conditions relating to point source emissions to surface water in this section.

2.4 Point source emissions to groundwater

There are no specified conditions relating to point source emissions to groundwater in this section.

2.5 Emissions to land

- 2.5.1 The Licensee shall ensure that where waste is emitted to land from the emission points in Table 2.5.1 (and identified on the map of emission points in Schedule 1) it is done so in accordance with the conditions of this licence.

Table 2.5.1: Emissions to land		
Emission point reference and location on map of emission points	Description	Source including abatement
L1	More than 20 but less than 100 cubic metres per day in the irrigation area for waste water treatment plant	Treated effluent from waste water treatment plant.

2.6 Fugitive emissions

- 2.6.1 The Licensee shall use all reasonable and practical measures to prevent and where that is not practicable to minimise dust emissions from the Premises.
- 2.6.2 The Licensee shall ensure that no visible dust generated by the activities on the Premises crosses the boundary of the Premises.

2.7 Odour

- 2.7.1 The Licensee shall ensure that odour emitted from the premises does not unreasonably interfere with the health, welfare, convenience, comfort or amenity of any person who is not on the Premises.

2.8 Noise

There are no specified conditions relating to noise in this section.



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 sampling is conducted in accordance with AS/NZS 5667.10; and
- (c) 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;
- (c) annual monitoring is undertaken at least 9 months apart.

3.2 Monitoring of point source emissions to air

There are no specified conditions relating to monitoring of point source emissions to air in this section.

3.3 Monitoring of point source emissions to surface water

There are no specified conditions relating to monitoring of point source emissions to surface water in this section.

3.4 Monitoring of point source emissions to groundwater

There are no specified conditions relating to monitoring of point source emissions to groundwater in this section.

3.5 Monitoring of emissions to land

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

Table 3.5.1: Monitoring of emissions to land				
Emission point reference	Parameter	Targets	Units	Frequency
L1	Biochemical Oxygen Demand	<20	(mg/L)	Within 7 days of commencement of discharge, quarterly thereafter.
	Total Suspended Solids	<30	(mg/L)	
	pH	6.5-8.5	-	
	Total Nitrogen	<60	(mg/L)	
	Total Phosphorus	<15	(mg/L)	
	<i>E.coli</i>	<10	(cfu/100 mL)	
	Monthly cumulative volumes	<100	m ³	Per day



3.6 Monitoring of inputs and outputs

3.6.1 The Licensee shall undertake the monitoring in Table 3.6.1 according to the specifications in that table.

Table 3.6.1: Monitoring of inputs and outputs				
Input/Output	Parameter	Units	Averaging period	Frequency
Sewage – Inlet Flow	Volumetric flow rate (cumulative)	m ³ /day	Monthly	Continuous
Waste Inputs	Inert Waste Type 1, Inert Waste Type 2, Clean Fill, Putrescible Waste	m ³ (where no weighbridge is present)	N/A	Monthly based on landfill trench surveys
	Tailings Waste			Each load arriving at the Premises
Waste Outputs	Waste type as defined in the Landfill Definitions			Each load leaving or rejected from the Premises

3.7 Process monitoring

There are no specified conditions relating to process monitoring in this section.

3.8 Ambient environmental quality monitoring

There are no specified conditions relating to ambient environmental quality monitoring in this section.

3.9 Meteorological monitoring

There are no specified conditions relating to meteorological monitoring in this section.

4 Improvements

4.1 Improvement program

There are no specified improvement conditions in this section.



5 Information

5.1 Records

- 5.1.1 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 5.1.1(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.
- 5.1.2 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.
- 5.1.3 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.
- 5.1.4 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.

5.2 Reporting

- 5.2.1 The Licensee shall submit to the CEO an Annual Environmental Report within 62 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.2.1 in the format or form specified in that table.

Table 5.2.1: Annual Environmental Report

Condition or table (if relevant)	Parameter	Format or form
-	Summary of any failure or malfunction of any pollution control equipment and any environmental incidents that have occurred during the annual period and any action taken	None specified
Table 3.5.1	Monitoring of emissions to land	None specified
Table 3.6.1	Monitoring of inputs and outputs	Tabular form
N/A	A record of cumulative volume of effluent discharged for the purpose of irrigation	Tabular form
5.1.4	Complaints summary	None specified

- 5.2.2 The licensee shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data recorded under Condition 3.5.1;
 - (b) an assessment of the information contained within the report against previous monitoring results and licence limits and/or targets; and
 - (c) a list of any original monitoring reports submitted to the licensee from third parties for the annual period and make these reports available on request.



5.3 Notification

- 5.3.1 The Licensee shall ensure that the parameters listed in Table 5.3.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 5.3.1: Notification requirements			
Condition or table (if relevant)	Parameter	Notification requirement ¹	Format or form ²
-	Target exceedances	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 5pm 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	

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

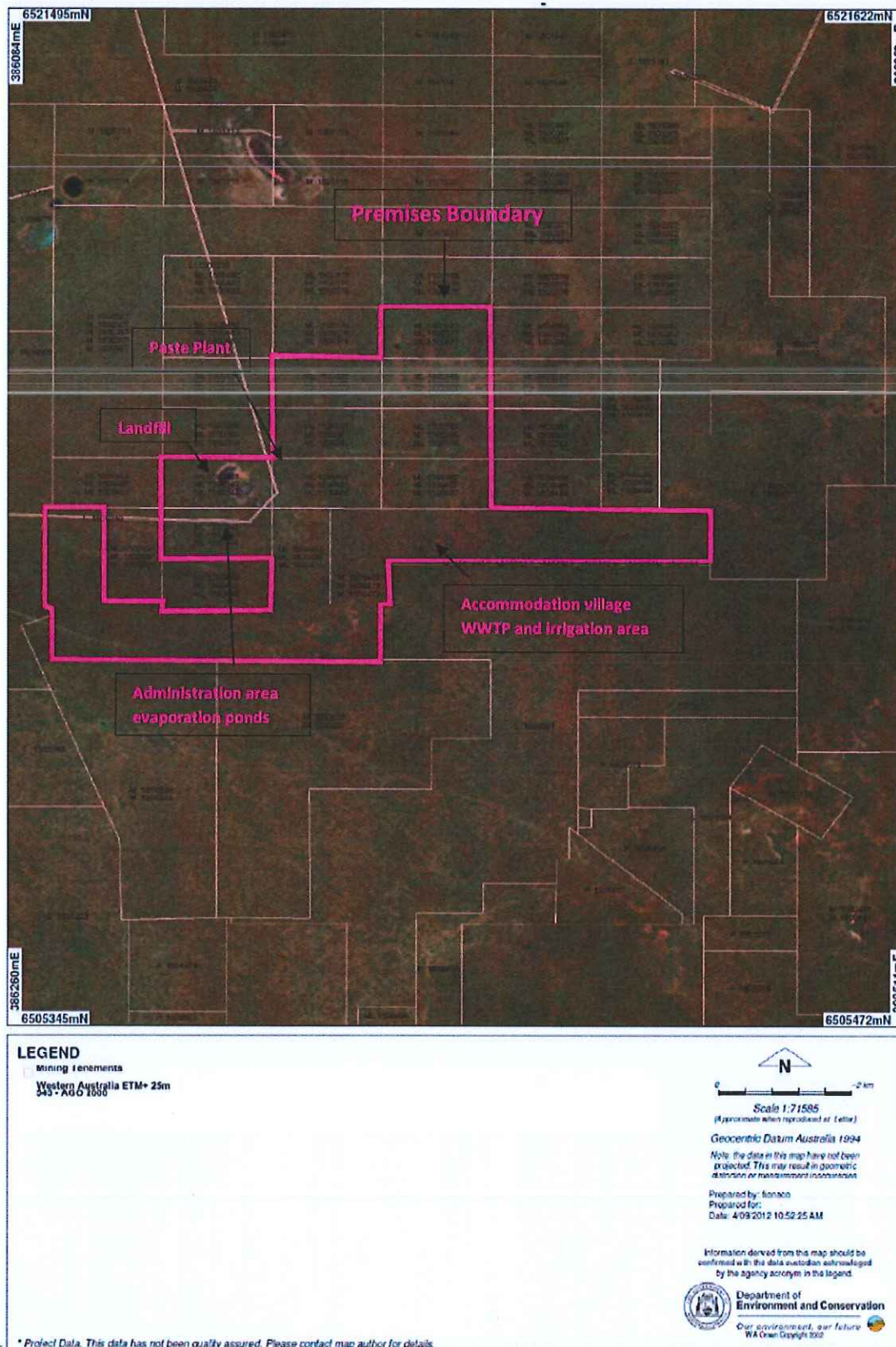
Note 2: Forms are in Schedule 2



Schedule 1: Maps

Premises map

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





Map of emission points

The locations of the emission points defined in Table 2.5.1 are shown below.





Landfill Area Map

The Class II Landfill location defined in Table 1.3.3 is shown below.





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

1. 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) may 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"/>	by the individual licence holder, or
	<input type="checkbox"/>	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"/>	by the principal executive officer of the licensee; or
	<input type="checkbox"/>	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"/>	by affixing the common seal of the licensee in accordance with the Corporations Act 2001; or
	<input type="checkbox"/>	by two directors of the licensee; or
	<input type="checkbox"/>	by a director and a company secretary of the licensee, or
	<input type="checkbox"/>	if the licensee is a proprietary company that has a sole director who is also the sole company secretary – by that director, or
	<input type="checkbox"/>	by the principal executive officer of the licensee; or
	<input type="checkbox"/>	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"/>	by the principal executive officer of the licensee; or
	<input type="checkbox"/>	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"/>	by the chief executive officer of the licensee; or
	<input type="checkbox"/>	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)



Government of Western Australia
Department of Environment Regulation

Licence: L8664/2012/1
Form: N1

Licensee: Lanfranchi Nickel Mines Pty Ltd
Date of breach:

Notification of detection of the breach of a limit or any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution.

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	

Notification requirements for any failure or malfunction of any pollution control equipment or any incident which has caused, is causing or may cause pollution	
Date and time of event	
Reference or description of the location of the event	
Description of where any release into the environment took place	
Substances potentially released	
Best estimate of the quantity or rate of release of substances	
Measures taken , or intended to be taken, to stop any emission	
Description of the failure or accident	



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 Lanfranchi Nickel Mines Pty Ltd	
Date	





Decision Document

Environmental Protection Act 1986, Part V

Proponent: Lanfranchi Nickel Mines Pty Ltd

Licence: L8664/2012/1

Registered office: Lanfranchi Nickel Mines Pty Ltd
Level 9, 553 Hay Street
Perth WA 6000

ACN: 110 078 263

Premises address: Lanfranchi Nickel Mine
Mineral Lease ML15/346, ML15/347, ML15/377, ML15/385, ML15/386,
ML15/387, ML15/388, ML15/486, ML15/487, ML15/493 and Mining Lease
M15/473
KAMBALDA WA 6429 as depicted in Schedule 1.

Issue date: Thursday, 11 October 2012

Commencement date: Monday, 15 October 2012

Expiry date: Saturday, 14 October 2017

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:

Clarrie Green
Licensing Officer

Decision Document authorised by:

Danielle Eyre
Manager Licensing



Contents

Contents	2
1 Purpose of this Document	2
2 Administrative summary	3
3 Executive summary of proposal and assessment	4
4 Decision table	5
5 Advertisement and consultation table	7
6 Risk Assessment	8

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.

Works approval and licence conditions

DER has three types of conditions that may be imposed on works approvals and licences. They are as follows;

Standard conditions (SC)

DER has standard conditions that are imposed on all works approvals and licences regardless of the activities undertaken on the Premises and the information provided in the application. These are included as the following conditions on works approvals and licences:

Works approval conditions: 1.1.1-1.1.4, 1.2.1, 1.2.2, 5.1.1 and 5.1.2.

Licence conditions: 1.1.1-1.1.4, 1.2.1-1.2.4, 5.1.1-5.1.4 and 5.2.1.

For such conditions, justification within the Decision Document is not provided.

Optional standard conditions (OSC)

In the interests of regulatory consistency DER has a set of optional standard conditions that can be imposed on works approvals and licences. DER will include optional standard conditions as necessary, and are likely to constitute the majority of conditions in any licence. The inclusion of any optional standard conditions is justified in Section 4 of this document.

Non standard conditions (NSC)

Where the proposed activities require conditions outside the standard conditions suite DER will impose one or more non-standard conditions. These include both premises and sector specific conditions, and are likely to occur within few licences. Where used, justification for the application of these conditions will be included in Section 4.



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	Category number(s)	Assessed design capacity
	61A	876,000 tonnes per annual period
	85	80 cubic metre per day
	89	2,500 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 checked="" type="checkbox"/> No <input 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 checked="" 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 type="checkbox"/>	
Is the Premises within an Environmental Protection Policy (EPP) Area Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes include details of which EPP(s) here.		
Is the Premises subject to any EPP requirements? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> If Yes, include details here, eg Site is subject to SO ₂ requirements of Kwinana EPP.		



3 Executive summary of proposal and assessment

The Lanfranchi project is owned and operated by Lanfranchi Nickel Mines Pty Ltd (LNM), a fully owned subsidiary of Panoramic. The Lanfranchi Project is located in the Coolgardie Mineral Field, approximately 90 kilometres south of Kalgoorlie and 40 kilometres south of Kambalda comprising Mineral Leases (ML 15/346 – 347; ML 15/377, ML15/385 – 388, ML15/486 – 487, ML 15/493) and Mining lease M15/473.

The Lanfranchi Nickel Mine (Lanfranchi), has been assessed as prescribed premises under category numbers 61A – solid waste facility, 85 – sewage facility and 89 – putrescible landfill, under Schedule 1 of the Environmental Protection Regulations 1987 (EP Regs).

Between 2004 and 2012 Lanfranchi had been operating without a licence and there were no works approvals for the construction of the paste plant or landfill. At the start of 2011, Panoramic Resources Limited (Panoramic) became aware that the site required a licence to operate and initiated contact with the DEC (now DER) regarding the situation. The matter of these facilities being constructed without a works approval and operating without a licence is under Incidents and Complaints Management System (ICMS) number 25886.

Category 61A – Solid waste facility:

A paste plant is operated on-site to help construct ground supports in underground mine operations. Tailings are sourced off-site, transported from Goldfields Limited and stockpiled prior to use in the paste plant. All reject material (consisting of cement, tailings and water) is disposed of into a sump, which is then periodically placed into the paste rejects dam. A secondary containment area is located behind the main rejects dam to capture any excess material from this facility.

Category 85 – Sewage facility:

There are two WWTPs at Lanfranchi. The larger of the two plants, services the Lanfranchi Village with an approximate occupancy rate of 100 people and a throughput of 40 cubic metres per day (m^3/day). The smaller plant is to service the mine administrative area. The throughput for the mine administration area WWTP is approximately 20 m^3/day .

Category 89 – Putrescible landfill site:

The landfill is located adjacent to the Lanfranchi waste rock dump where inert and putrescible wastes are disposed of in trenches. Putrescible waste generated from the Lanfranchi Village may be disposed of offsite to the Kambalda landfill facility from time to time through a service agreement with the Shire of Coolgardie. Approximately 1000 m^3 per year of inert and putrescible waste is currently disposed of in the landfill.

This Licence amendment is the result of an application sought by the licensee to increase the volume of waste deposited at the landfill from 1,000 m^3 to 1,500 m^3 per year. No changes to the landfilling practices or landfill area are proposed. However, Licence conditions have been modified for consistency with other landfill licences in the REFIRE format and to remove confusion between licence requirements and *Environmental Protection (Rural Landfill) Regulations 2002*.



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	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
Premises operation	L1.3.5 – 1.3.6 L1.3.11 – 1.3.14	OSC	<p>Normal Operation</p> <p>OSCs 1.3.5 and 1.3.6 will be applied to the Licence to allow for the continued operation of a putrescible landfill on the Premises in a manner that minimises the risk to the environment. Lanfranchi will be restricted to landfilling only putrescible waste and inert waste types 1 and 2 (tyres). Any waste that does not meet the specification requirements under that condition will need to be disposed at an appropriate landfill facility offsite.</p> <p>OSC 1.3.11 mimicks the requirements of the previous Licence to define how waste should be processed. Additional requirements for the landfilling of tyres were added to align the Lanfranchi landfill with other premises that accept tyres. These conditions are designed to prevent outbreak of uncontrollable fires. OSC 1.3.12 and 1.3.14 replace components of condition 1.3.10 and Table 1.3.1 of the previous licence.</p> <p>Justification for the implementation of OSC 1.3.13 regarding cover requirements is provided in the "Odour" section.</p>	<p>General provisions of the <i>Environmental Protection Act</i> 1986.</p> <p><i>Environmental Protection (Rural Landfill) Regulations 2002</i></p> <p>Landfill Waste Classification and Waste Definitions 1996 (as amended December 2009).</p>
Odour	L1.3.13	N/A	<p>Operation – Landfill</p> <p><u>Emission Description</u></p> <p><i>Emission:</i> Odour generated from putrescible waste as it becomes putrid.</p> <p><i>Impact:</i> Nearby animals may be attracted to the Premises as a result of odours and could potentially become hurt or killed through surrounding mining activities.</p> <p><i>Controls:</i> Lanfranchi currently cover waste on a monthly basis to prevent the</p>	<p>General provisions of the <i>Environmental Protection Act</i> 1986.</p>



DECISION TABLE

Works Approval / Licence section	Condition number W = Works Approval L = Licence	OSC or NSC	Justification (including risk description & decision methodology where relevant)	Reference documents
			<p>attraction of animals.</p> <p><u>Risk Assessment</u> Consequence: Minor Likelihood: Unlikely Risk Rating: Moderate</p> <p><u>Regulatory Controls</u> Optional standard premises conditions have been added to the Licence to ensure that putrescible waste is covered at least fortnightly. Previous licence conditions specified monthly covering of waste, however this contradicts the <i>Environmental Protection (Rural Landfill) Regulations 2002</i>, which require at least fortnightly covering of waste for a landfill of this size.</p> <p><u>Residual Risk</u> Consequence: Minor Likelihood: Rare Risk Rating: Low</p>	<i>Environmental Protection (Rural Landfill) Regulations 2002</i>
Monitoring of inputs and outputs	L3.6.1	OSC	<p>Lanfranchi will be required to record the volumes and types of waste leaving the Premises. Previous licence conditions required the supply of throughput volumes to the landfill. However, the addition of OSC 3.6.1 will require Lanfranchi to record the volumes of waste entering the landfill, tailings from offsite sources and sewage inlet flows. This will assist in determining compliance with throughput limits on the Licence.</p>	General provisions of the <i>Environmental Protection Act 1986</i> .
Information	L5.2.1	SC	OSCs have been added to the Licence for the annual report to include evidence of process monitoring.	N/A
Licence Duration	N/A	N/A	There has been no extension to the Licence expiry as part of this amendment.	N/A



5 Advertisement and consultation table

Date	Event	Comments received/Notes	How comments were taken into consideration
8/5/2015	Proponent sent a copy of draft instrument	<ol style="list-style-type: none">1) Change waste input calculation from every load to monthly based on survey measurements within the landfill trench.2) Tyres to be landfilled within the Lanfranchi Waste Rock Dump.3) Request to increase the nominated landfill throughput to 2,500 tonnes per annual period.	<ol style="list-style-type: none">1) Proposal accepted and Table 3.6.1 amended.2) Proposal accepted and Table 1.3.3 amended.3) Request accepted. Cover requirements not increased to weekly in line with Landfill Regulations as the increase in throughput relates to Type 2 Inert Waste (tyres). Cover requirements for tyres are placed on the Licence and found within Part 6 of the <i>Environmental Protection Regulations 1986</i>.



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