Environmental Protection Act 1986, Part V

Licence Holder: Halls Creek Mining Pty Ltd

Licence: L8912/2015/1

Registered office: 1187 Hay Street
WEST PERTH WA 6005

ACN: 168 093 347

Premises address: Lamboo Gold Project
M80/343, M80/355, M80/359, M80/362, M80/503, M80/471, L80/70, and L80/71, L80/94 and L80/97
MUELLER RANGES WA 6770
As depicted in Schedule 1

Issue date: 5 November 2015

Commencement date: 9 November 2015

Expiry date: 8 November 2035

Amendment date: 10 August 2021

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
5	Processing or beneficiation of metallic or non-metallic ore	50 000 tonnes or more per year	250,000 tonnes per annual period
64	Class II putrescible landfill site	20 tonnes or more per year	200 tonnes per annual period

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

Lauren Edmands
Digitally signed by Lauren Edmands
Date: 2021.08.10 14:25:39 +08'00'
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Manager, Resource Industries
Officer delegated under section 20
of the *Environmental Protection Act 1986*

Contents

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: 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 Lamboo Gold Project, formerly known as Nicholson Gold Project, is located within the Lamboo Pastoral Lease, in the Kimberley Region of Western Australia, approximately 40 kilometres (km) south-west of Halls Creek. The nearest sensitive land use is the Lamboo Homestead approximately 4 km to the south of the operational area. The Lamboo Community is more than 10 km away.

An open pit mine was first constructed at the Nicolson's Find deposit by Precious Metals Australia in 1996. The site was placed under care and maintenance between 1997 and 2000. Rewah Gold Mining Ltd (Rewah) took over the ownership of the project in 2000 and constructed a 120,000 tonnes per annum (tpa) carbon in pulp (CIP) gold processing plant and a tailings storage facility (TSF) under Works Approval W3436/2001/1. The site was placed under care and maintenance in 2003.

Works Approval W5366/2013/1 was subsequently issued to Bulletin Resources Ltd in August 2013 for refurbishment and works including construction of a new TSF (TSF 2 Cell 1). The Works Approval was transferred in August 2014 to Halls Creek Mining Pty Ltd (HCM) as the new Occupier.

Mining will involve surface mining of Nicolson's Find, Wagtail North, Wagtail South and Rowdies pits and underground mining at the Nicolson's, Wagtail North and Wagtail South ore bodies. Mine life is estimated to be 5 years.

Test work on waste rock samples indicated that the waste rock is non-acid forming and has net acid neutralising capacity.

Geochemical testing indicated that the tailings do not contain significant sulphidic material within a strongly alkaline mass.

Tailings produced in the CIP plant are pumped as a slurry to the TSF.

HCM has stated that any groundwater extracted from the open pit and underground mining operations, will be contained in-pit and in underground sumps, sent to the raw water dam and used in the gold processing plant or for dust suppression.

A small Reverse Osmosis (RO) plant also discharges brine to the raw water dam.

Up to 200 tonnes of waste per year (including tyres) is approved for burial on the premises.

A hydrocarbon soil remediation facility is located within Nicolsons Waste Rock Dump.

HCM also operates a septic waste system with associated leach drains. DWER does not regulate septic waste systems under the Act.

The licences and works approvals issued for the Premises since 01/08/2013 are:

Instrument log		
Instrument	**Issued**	**Description**
L8912/2015/1	05/11/2015	First issue of operating Licence
L8912/2015/1	29/04/2016	Notice of amendment of licence expiry date, section59b (9) and section 59(1)(k) *Environmental Protection Act 1986*; extension of licence expiry date to 8 November 2035. Administrative amendment only
L8912/2015/1	11/7/2017	Amendment Notice 1 for embankment lifts to TSF1 and TSF2
L8912/2015/1	31/01/2018	Amendment Notice 2 to increase Category 5 plant throughput to 250,000 tpa and relocation of Lamboo's landfill and expansion 25m southeast of the originally approved landfill area.
L8912/2015/1	27/11/2019	Amendment to increase landfill capacity and landfill locations, and addition of a new process pond and raw water pond, and consolidation of the licence to incorporate Amendment Notices 1 and 2.
L8912/2015/1	10/08/2021	Amendment for embankment lifts to TSF1 and TSF2 to RL411m and update to premises boundary.

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:

'Annual Audit Compliance Report (AACR)' means a report submitted in a format approved by the CEO (relevant guidelines and templates may be available on the Department's website);

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

'annual period' means the inclusive period from 1 September until 31 August in the following year;

'AS 1289.2.1.1' means the Australian Standard AS 1289.2.1.1 -2005 (R2016) Methods of testing soils for engineering purposes. Soil moisture content tests - Determination of the moisture content of a soil - Oven drying method (standard method).

'AS 1289.5.1.1' means the Australian Standard AS 1289.5.1.1 Methods of testing soils for engineering purposes. Method 5.1.1: Soil compaction and density tests—Determination of the dry density/moisture content relation of a soil using standard compactive effort.

'AS 1289.5.4.1' means the Australian Standard AS 1289.5.4.1-2007 (R2016) Methods of testing soils for engineering purposes. Soil compaction and density tests - Compaction control test - Dry density ratio, moisture variation and moisture ratio

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

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

'CEMS' means continuous emissions monitoring system;

'CEO' means Chief Executive Officer of the Department;

'CEO' for the purpose of correspondence means;

Director General
Department administering the *Environmental Protection Act 1986*
Locked Bag 10
Joondalup DC WA 6919
Email: info@der.wa.gov.au

'Clean Fill' has the meaning defined in Landfill Definitions;

'CN_{WAD}' means Weak Acid Dissociable Cyanide;

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

'Department' means the department established under section 35 of the Public Sector Management Act 1994 (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3;

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

'HDPE' means high density polyethylene;

'Licence' means this Licence numbered L8912/2015/1and issued under the Act;

'Licence Holder' refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted;

'**mgbl'** means metres below ground level;

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

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

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

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

'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;

'Stage 1' means construction of the new northern and western embankments, embankment raise to 405 mRL and install of new piezometers at TSF1;

'Stage 2' means construction of embankment raise at TSF1 to 408 mRL and 405 mRL and install of new piezometers at TSF2;

'Stage 3' means construction of final embankment raise and install of new piezometers at TSF2 to 408 mRL; and

'Suitably Qualified Geotechnical Engineer' means a person who: holds a Bachelor of Engineering recognised by the Australian Institute of Engineers; and has a minimum of five years of experience working in geotechnical engineering including experience in the design of tailings storage facilities

'TSF' means Tailings Storage Facility;

'**TSF1**' means Cell 1 within the Tailings Storage Facility located in Schedule 1; and

'**TSF2**' means Cell 2 within the Tailings Storage Facility located in Schedule 1.

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 The Licence Holder shall ensure that the requirements as detailed in Column 3 of Table 1.2.1 are met during the construction of the infrastructure listed in columns 1 and 2 of Table 1.2.1.

Table 1.2.1: Construction requirements

Column1	**Column 2**	**Column 3**
Location	**Stage**	**Requirements**
TSF1 and TSF2	Stages 3 and 4	Embankment raise to 411 mRL as per Figure 4 and Figure 5
TSF 1 and TSF2 (downstream toe)	All stages	Sediment trench excavated downstream of the downstream toe of the embankments. The trench will drain to one or more small sumps.
TSF 1 and TSF2	All stages	Piezometers installed in all new embankment raises and in the storage basin to enable monitoring of the phreatic surface within the tailings. Locations of piezometer installation are provided in Schedule 1 Figure 2.
TSF 1 and TSF2	All stages	Freeboard markers installed for each embankment raise to allow measurement of 0.3m and 0.5m freeboard.
TSF 1 and TSF2	All stages	Spigot off takes from the HDPE tailings pipework installed from the embankment crest every 10 m.
TSF1 and TSF2 (pipelines)	All stages	Operational tailings distribution pipeline installed on the impounding embankments of each TSF to enable deposition from the embankment crest. Change over pipelines are to be installed to allow for transfer of tailings between operating TSFs.
TSF1 and TSF2 (embankments)	All stages	• The material shall be free of visible organic and deleterious material; • The maximum particle size shall not exceed 100 mm; • and • Undertake at least one Atterberg Limits Test[1] and one gradation test for every 5,000 m^3 of fill placed and document results.
TSF1 and TSF2 (embankments)	All stages	Field dry density testing is to be conducted on each embankment layer to achieve 95% of Standard Maximum Dry Density (as per AS 1289.5.1.1) and document results and any re-work required. Compaction control is to be certified by a qualified engineer as having been conducted in accordance with AS 1289.5.4.1.

Table 1.2.1: Construction requirements		
Column1	**Column 2**	**Column 3**
Location	**Stage**	**Requirements**
TSF1 and TSF2 Raise Layout	All stages	As shown in Schedule 1: Figure 3, Figure 4, Figure 5
Process water dam (additional)	N/A	Located as shown in Schedule 1: Figure 2: Site map. Layout as shown in Schedule 1: Figure 6: Map of Raw Water Dams and Process Water Dams. Lined with High Density Polyethylene (HDPE).
Raw water dam (additional)	N/A	

[1] Atterberg Limits Test to determine critical water contents of a fine-grained soil: its shrinkage limit, plastic limit, and liquid limit.

1.2.2 The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1.2.1 being constructed and/or installed:
- (a) undertake an audit of their compliance with the requirements of condition 1.2.1 ; and
- (b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

1.2.3 The Environmental Compliance Report required by condition 1.2.3, must include as a minimum the following:
- (a) certification by a Suitably Qualified Geotechnical Engineer that the Stage 3 and Stage 4 for TSF1 and TSF2, or component(s) thereof, as specified in condition 1.2.1, have been constructed in accordance with the relevant requirements specified in condition 1.2.1;
- (b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1.2.1;
- (c) findings from the investigations undertaken as required in condition 1.4.1; and
- (d) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person

1.3 Premises operation

1.3.1 The Licence Holder shall ensure that all above-ground pipelines containing environmentally hazardous substances are either:
- (a) equipped with telemetry; or
- (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 tailings, decant water, raw water, process water and hydrocarbon contaminated soils are only discharged into the infrastructure detailed in Table 1.3.1.

Table 1.3.1: Containment infrastructure		
Containment	**Material contained**	**Infrastructure requirements**
TSF1 (new floor section of 180m in length and 5-17m width)	Tailings and Decant Water	Compacted to a permeability coefficient of 10^{-9} m/s or less.

Table 1.3.1: Containment infrastructure		
Containment	**Material contained**	**Infrastructure requirements**
TSF1 and TSF2	Tailings and Decant Water	To be contained within TSF1 and TSF2 close to the decant tower and returned to the process as required.
Raw water dams	Underground mine dewater and bore water.	Lined with High Density Polyethylene (HDPE). Minimum 300mm freeboard shall be maintained. Located as shown in Schedule 1: Figure 2: Site map.
Process water dams	Tails return water and raw water.	Lined with High Density Polyethylene (HDPE). Minimum 300mm freeboard shall be maintained. Located as shown in Schedule 1: Figure 2: Site map.
Bioremediation pad	Hydrocarbon contaminated soils.	Located within Nicolsons WRD as shown in Schedule 1: Figure 2: Site map. Clay lined and bunded on all sides to contain potentially contaminated water.

1.3.3 The Licence Holder shall manage TSF1 and TSF2 such that:

(a) a minimum top of embankment freeboard of 500mm is maintained;
(b) a seepage collection and recovery system is provided and used to capture seepage from the TSF1 and TSF2;
(c) seepage is returned to the TSF1 or TSF2 or the process plant;
(d) methods of operation minimise the likelihood of erosion of the embankments by wave action; and
(e) the supernatant pond on the TSF1 and TSF2 is minimised as far as possible.

1.3.4 The Licence Holder shall:

(e) undertake inspections as detailed in Table 1.3.2;
(f) 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
(g) maintain a record of all inspections undertaken.

Table 1.3.2: Inspection of infrastructure		
Scope of inspection	**Type of inspection**	**Frequency of inspection**
Tailings delivery pipelines	Visual integrity	Daily
Return water lines	Visual integrity	
TSF1 and TSF2 embankment freeboards	Visual to confirm required freeboard capacity is available	
Seepage from TSF embankments	Visual integrity	

1.3.5 The Licence Holder shall only accept waste on to the landfill and waste rock dump if:

(a) it is of a type listed in Table 1.3.3;
(b) the quantity accepted is below any quantity limit listed in Table 1.3.3; and
(c) it meets any specification listed in Table 1.3.3.

Table 1.3.3: Waste acceptance		
Facility	**Waste type**	**Quantity limit**
Landfill as shown on the Map of containment and waste locations in Schedule 1 (Figure 2).	Inert Waste Type 1	200 tonnes per year
	Inert Waste Type 2 other than tyres	
	Putrescible Waste	
	Clean Fill	

Table 1.3.3: Waste acceptance		
Facility	**Waste type**	**Quantity limit**
Waste rock dump as shown on the Map of containment and waste locations in Schedule 1 (Figure 2).	Tyres	

1.3.6 The Licence Holder shall ensure that where wastes produced on the Premises are not taken off-site for lawful use or disposal, they are managed in accordance with the requirements in Table 1.3.4.

Table 1.3.4: Management of waste		
Waste type	**Management strategy**	**Requirements**
Clean fill	Receipt, handling and disposal of waste by landfilling	None specified
Inert Waste Type 1 Inert Waste Type 2 (other than tyres) Putrescible Waste		<u>All waste types (except tyres)</u> Disposal of waste by landfilling shall only take place within the landfill area shown on the Map of containment and waste locations in Schedule 1: Figure 2: Site Map. Waste shall be placed in a defined trench within an area enclosed by earthen bunds. The size of the tipping face shall be kept to a minimum and not larger than 30 m in length and 2 m above ground level in height. Waste shall not be burned within the trench or within the areas enclosed by the earth bunds. Fires within the defined trench or within areas enclosed by earth bunds shall be extinguished as soon as practicable, upon becoming aware of the fire. The landfill site shall be fenced.
Inert Waste Type 2 (tyres)		Tyres shall only be disposed of at the Nicolsons, Wagtail North and Wagtail South Waste Rock Dumps shown on the in Schedule 1: Figure 2: Site map Separation distance of 1 metre shall be maintained between tyres. Tyres shall be placed under the advancing face of the Waste Rock Dump and will be covered by a minimum of 10 metres of waste rock material.

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

1.3.7 The Licence Holder shall ensure that cover is applied and maintained on landfilled wastes in accordance with Table 1.3.5 and that sufficient stockpiles of cover are maintained on site at all times.

Table 1.3.5: Cover requirements			
Waste Type	**Material**	**Depth**	**Timescales**
Putrescible waste	Inert and incombustible material	300mm	Weekly or as soon as practicable after deposit and prior to compaction
All waste other than tyres		1000mm	Within three months of the final waste load in each trench.

1.3.8 The Licence Holder shall take all reasonable and practical measures to ensure that no windblown waste escapes from the landfill area and that windblown waste is collected on at least a monthly basis and returned to the active tipping area.

1.3.9 The Licence Holder shall ensure that any saline water used for dust suppression is used in a manner that minimises damage to surrounding vegetation.'

1.4 Specified actions

1.4.1 The Licence Holder must undertake downhole geophysical logging using a natural gamma probe in all existing groundwater bores (GW1- GW9) as set out in Schedule 1, Figure 2: Site map, to identify potential sandy horizons at shallow depth in the weathered profile.

2 Emissions

2.1 General

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

2.2 Point source emissions to air

2.2.1 The Licence Holder is permitted, subject to conditions in the Licence, to emit waste to the atmosphere from the emission points listed in Table 2.2.1 and identified in the Map of air emission points, Schedule 1 (Figure 2).

Table 2.2.1: Emission points to air			
Emission point reference and location on Schedule 1: Figure 2: Site map	**Emission Point**	**Emission point height (m)**	**Source, including any abatement**
A1	Off-gas released to air via a stack	9 m	Carbon regeneration
A2	Off-gas released to air via a stack	8 m	Gold smelting

2.3 Production Limits

2.3.1 The Licence Holder shall not cause or allow emissions above the Approved Premises production or design capacity specified in Table 2.3.1.

Table 2.3.1: Production Limits			
Category number	**Category description**	**Category production or design capacity**	**Approved Premises production or design capacity**
5	Processing or beneficiation of metallic or non-metallic ore	50,000 tonnes or more per year	250,000 tonnes per annual period
64	Class II putrescible landfill site	20 tonnes or more per year	200 tonnes or more per year

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 5667.11; and
(c) all laboratory samples are submitted to and tested by a laboratory with current NATA accreditation for the parameters being measured unless indicated otherwise in the 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.

3.1.3 The Licence Holder shall record production or throughput data and any other process parameters relevant to any non-continuous or CEMS monitoring undertaken.

3.1.4 The Licence Holder shall ensure that all monitoring equipment used on the Premises to comply with the conditions of this Licence is calibrated in accordance with the manufacturer's specifications.

3.1.5 The Licence Holder shall, where the requirements for calibration cannot be practicably met, or a discrepancy exists in the interpretation of the requirements, bring these issues to the attention of the CEO accompanied with a report comprising details of any modifications to the methods.

3.2 Monitoring of inputs and outputs

3.2.1 The Licence Holder shall undertake the monitoring specified in Table 3.2.1.

Table 3.2.1: Monitoring of inputs and outputs				
Input/Output	**Parameter**	**Units**	**Averaging period**	**Frequency**
Waste Inputs	Inert Waste Type 1, Inert Waste Type 2, Putrescible Waste and Clean Fill	Tonnes or (where no weighbridge is present) m^3	Annually	Each load arriving at the landfill
	Inert Waste Type 2 (Tyres)	Number of tyres and Tonnes (where no weighbridge is present) m^3	Annually	Each batch arriving at the waste rock dump.

3.3 Process monitoring

3.3.1 The Licence Holder shall undertake the monitoring in Table 3.3.1 according to the specifications in that table and record and investigate results that do not meet any limit specified.

Table 3.3.1: Process Monitoring

Monitoring point reference as depicted in Schedule 1: Figure 2: Site map	Process description	Parameter	Limit	Averaging period	Frequency	Method
P1 and P2	Decant water	Total cyanide (CN)	80 mg/L	Spot sample	Once, during commissioning of each new embankment raise	None specified
		Weak acid dissociable cyanide (CN_{WAD})	50 mg/L			
P1 and P2	Decant water	Total cyanide (CN)	80 mg/L	Spot sample	Quarterly when water standing	None specified
		Weak acid dissociable cyanide (CN_{WAD})	50 mg/L			

3.4 Ambient environmental quality monitoring

3.4.1 The Licence Holder shall undertake the monitoring specified in Table 3.4.1.

Table 3.4.1: Monitoring of ambient groundwater quality

Monitoring point reference	Parameter	Units	Averaging period	Frequency[2]
TSF Monitoring bores GW1 – GW9 As shown on Schedule 1: Figure 2: Site map	Standing water level[1]	mBGL	Spot sample	Quarterly
	pH[1]	pH units		
	Total Dissolved Solids	mg/L		
	Electrical conductivity	µS/cm		
	Weak acid dissociable cyanide (CN_{WAD})	mg/L		
	Aluminium, Arsenic, Cadmium, Cobalt, Chromium (VI), Copper, iron, Lead, Nickel, Zinc	mg/ L		
	Sodium, Calcium, Potassium, Magnesium, Sulphate, Chloride, Fluoride	mg/L		Quarterly
	Barium, Boron, Chromium VI, Mercury, Molybdenum, Antimony, Selenium, Tin, Vanadium	mg/L		Quarterly

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

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

4.1.3 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.

5 Reporting

5.1.1 The Licence Holder shall submit to the CEO an Annual Environmental Report within 28 calendar days after the end of the annual period. The report shall contain the information listed in Table 5.1.1 in the format or form specified in that table.

Table 5.1.1: 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
-	Comparison of the approved production and design capacities and actual production/throughput for the Annual period.	Brief summary
Table 3.2.1	Records of waste types and quantities received and disposed of at the site	None specified
Table 3.3.1	Process monitoring results	None specified
Table 3.4.1	Groundwater monitoring results	None specified
4.1.2	Compliance	Annual Audit Compliance Report (AACR)
4.1.3	Complaints summary	None specified

5.1.2 The Licence Holder shall ensure that the Annual Environmental Report also contains:
- (a) any relevant process, production or operational data recorded under Condition 3.1.3; and
- (b) an assessment of the information contained within the report against previous monitoring results and Licence limits.

5.1.3 The Licence Holder shall submit the information in Table 5.1.2 to the CEO according to the specifications in that table.

Table 5.1.2: Non-annual reporting requirements

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form[1]
-	Copies of original monitoring reports submitted to the Licensee by third parties	Not Applicable	Within 14 days of the CEOs request	As received by the Licensee from third parties
-	Reports as required by IR1	Not Applicable	As per Table 4.1.1	None specified

5.1.4 The Licence Holder shall submit compliance documents to the CEO within 1 month following construction of the works specified in Table 1.2.1.

5.1.5 The compliance documents required by condition 5.1.4 shall:
(a) Certify that the works were constructed in accordance with the construction conditions of this Licence; and
(b) Be signed by a qualified engineer and a person authorized to represent the Licence Holder and contain the printed name and position of that person within the company.

6 Notification

6.1.1 The Licence Holder shall ensure that the parameters listed in Table 6.1.1 are notified to the CEO in accordance with the notification requirements of the table.

Table 6.1.1: Notification requirements

Condition or table (if relevant)	Parameter	Notification requirement[1]	Format or form[2]
-	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
		Part B: As soon as practicable	
-	Production ceasing for an unspecified period of time	As soon as practicable after the decision has been made.	None Specified
-	Production recommencing	At least 28 days prior to production recommencing.	None specified

Note 1: Notification requirements in the Licence shall not negate the requirement to comply with s72 of the Act
Note 2: Form is in Schedule 2

Schedule 1: Maps

Figure 1: Premises boundary map
The Premises is shown in the map below. The pink line depicts the Premises boundary.

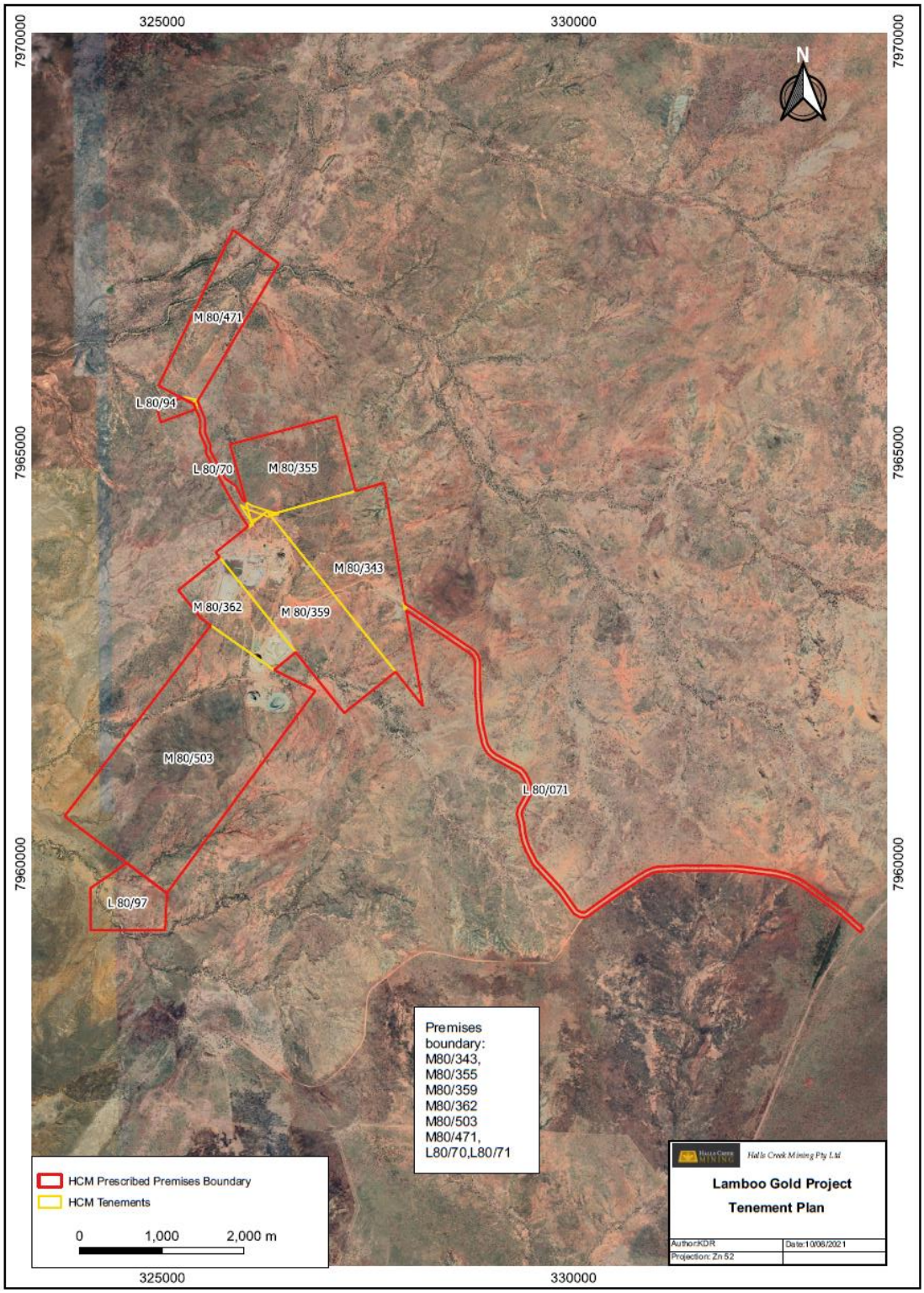


Figure 2. Site map

The location of key infrastructure, air emission points, process monitoring points, and groundwater monitoring points are shown in the map below.

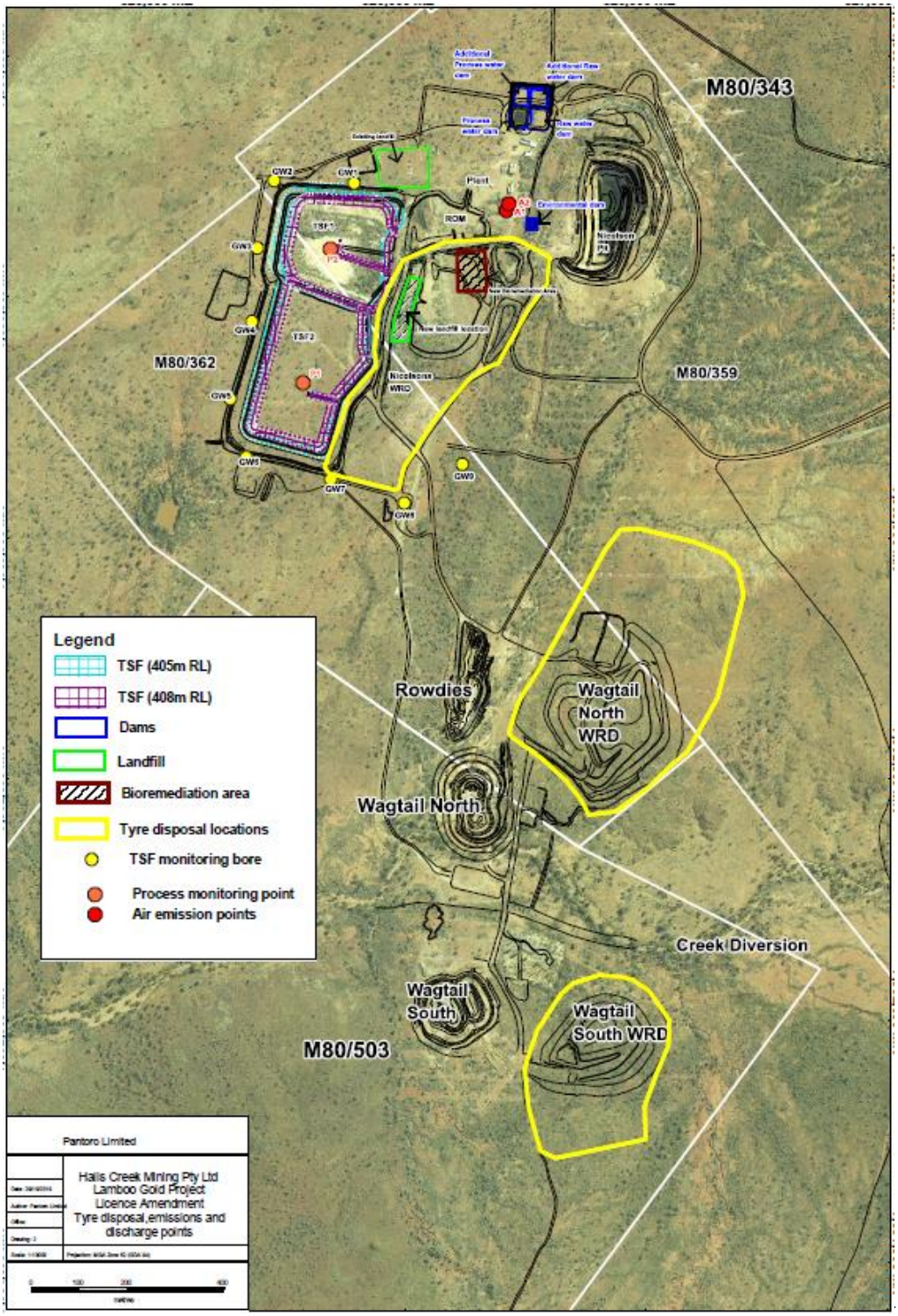


Figure 3: Lamboo Gold Project TSF1 and TSF2 Raise Layout Plan (includes piezometer locations)

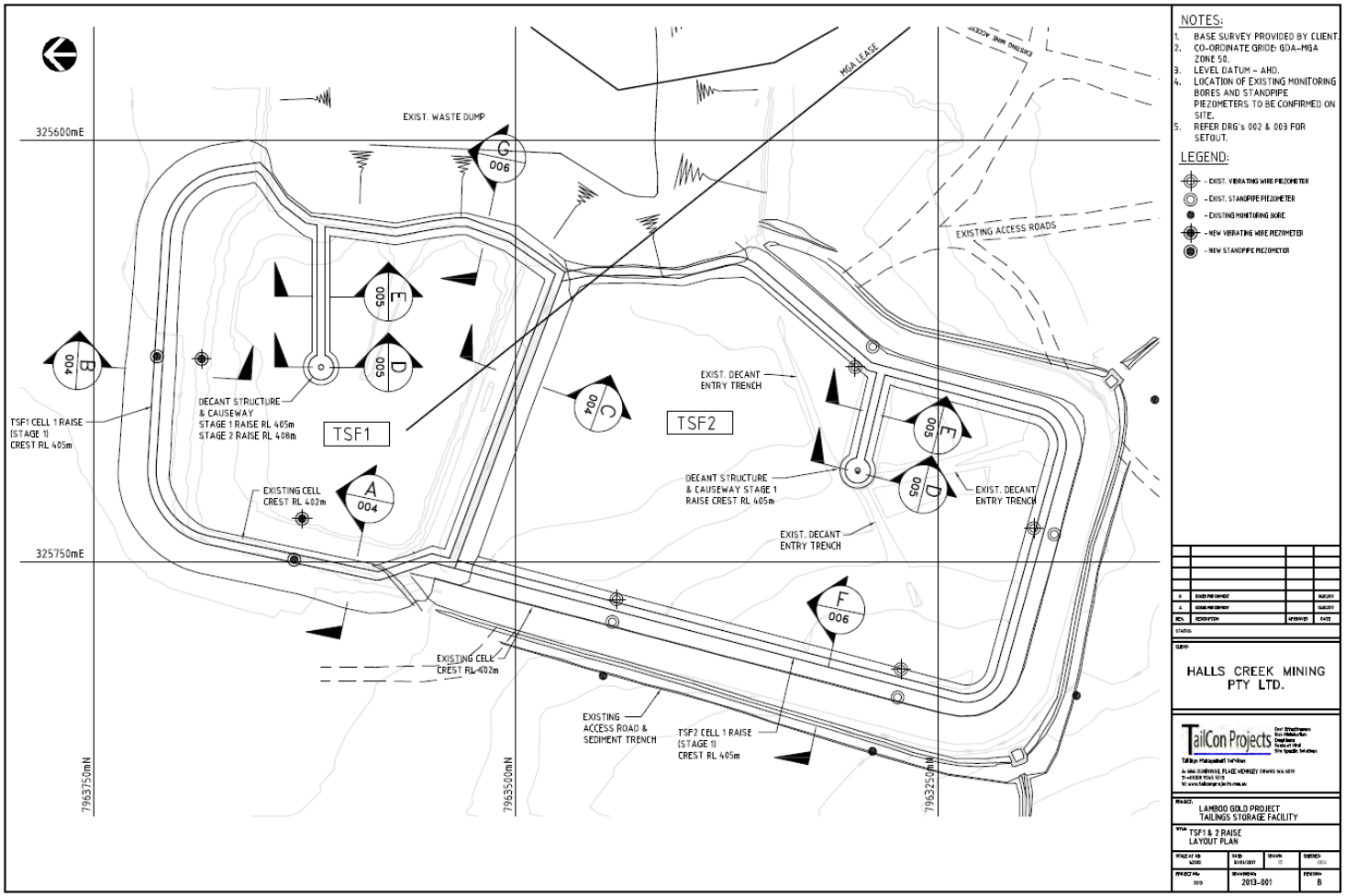


Figure 4: Lamboo Gold Project TSF1 Raise to RL411 m Layout Plan

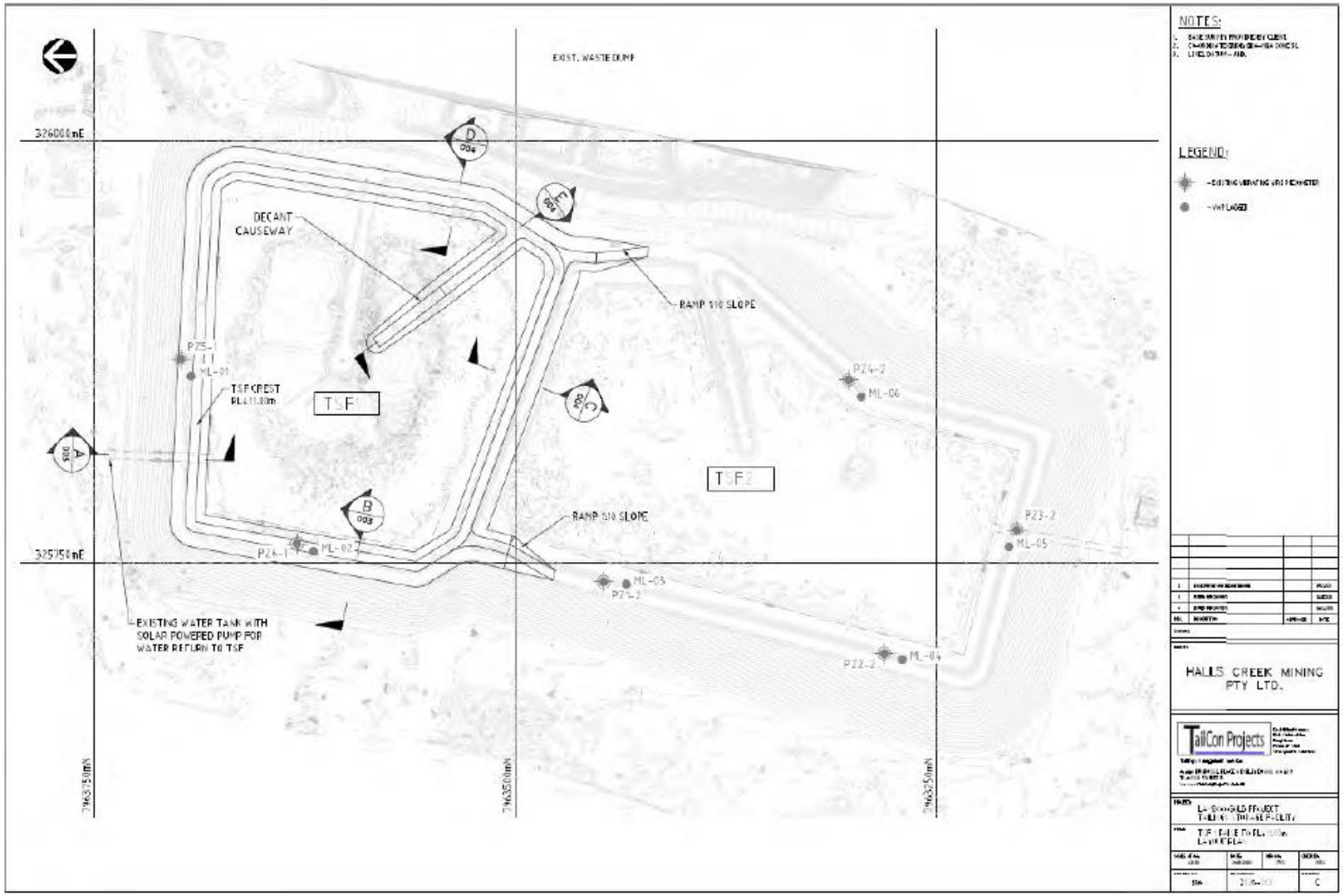


Figure 5: Lamboo Gold Project TSF2 Raise to RL411 m Layout Plan

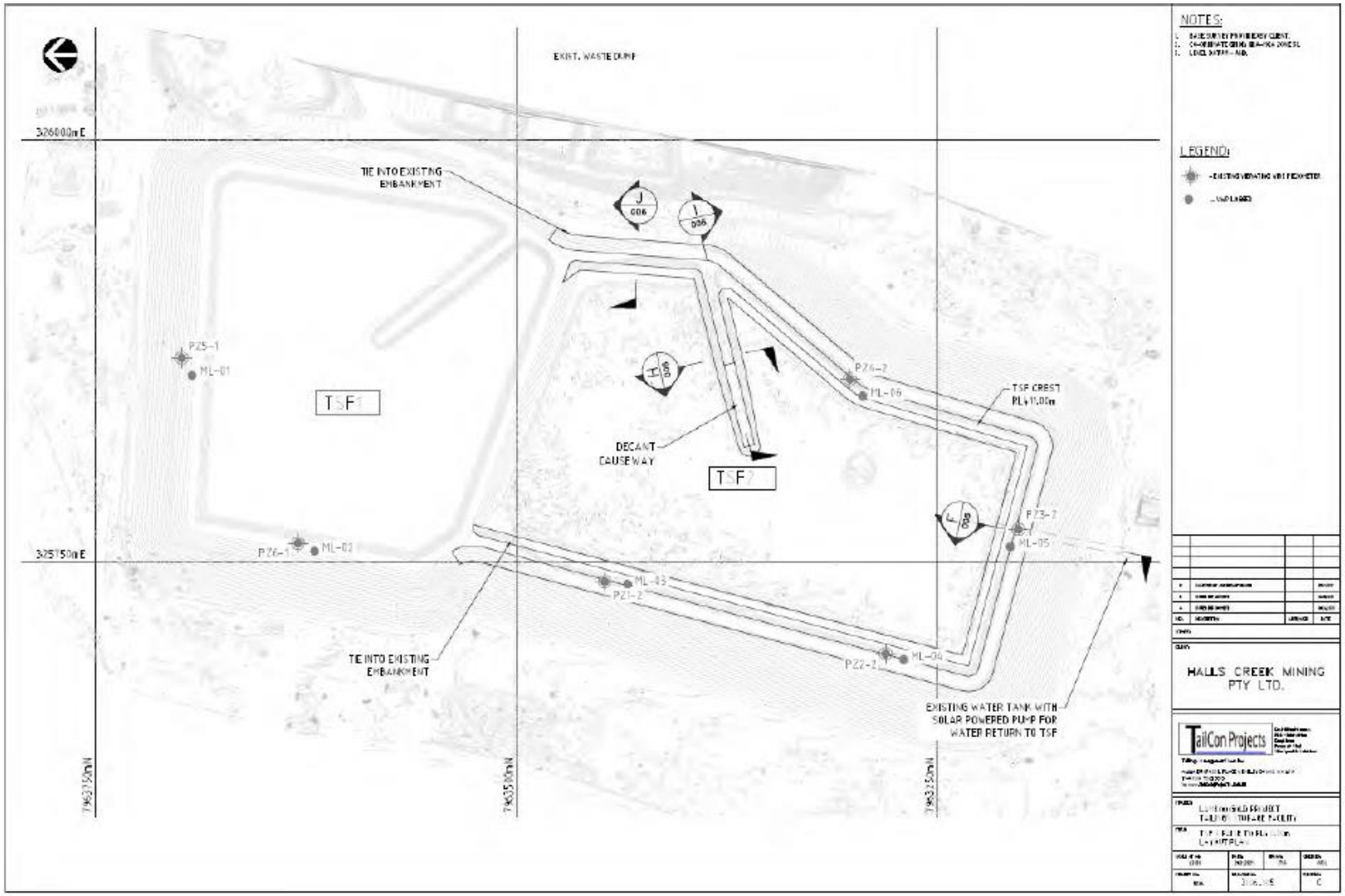
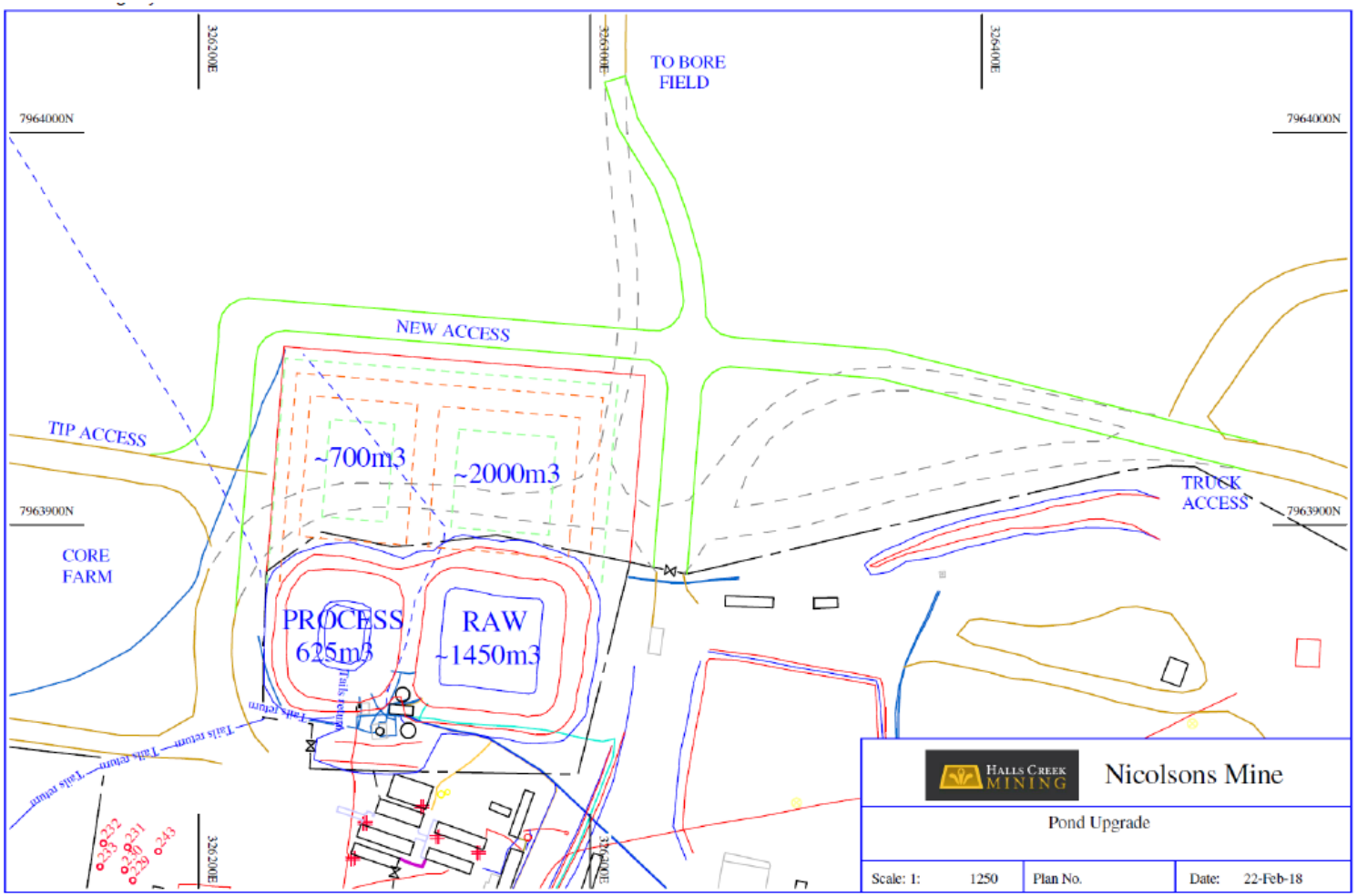


Figure 6: Map of Raw Water Dams and Process Water Dams

The layout of the additional Raw Water Dam and Process Water Dam is shown in the map below.



FORM N1

Licence: Licence Holder:
Form: N1 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 Halls Creek Mining Pty Ltd	
Date	