



<b>Licence number</b>	L6933/1996/14
<b>Licence holder</b>	Poseidon Nickel Limited
<b>ACN</b>	060 525 206
<b>Registered business address</b>	Level 1 3 Ord Street West Perth WA 6005
<b>Internal number</b>	INS-0001383
<b>Duration</b>	27/04/2013 to 26/04/2030
<b>Date of issue</b>	25/04/2013
<b>Date of amendment</b>	24/03/2025
<b>Premises details</b>	Black Swan Nickel Mine Mining Tenements M27/39 and M27/200 KALGOORLIE WA 6430 As depicted in Schedule 1.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i> )	Assessed production / design capacity
Category 5: Processing and beneficiation of metallic or non-metallic ore	3,000,000 tonnes per annual period
Category 6: Mine dewatering	450,000 tonnes per annual period

This licence is granted to the licence holder, subject to the attached conditions, on 24 March 2025, by:

**A/MANAGER, RESOURCE INDUSTRIES  
INDUSTRY REGULATION (STATEWIDE DELIVERY)**

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

## Licence history

Date	Reference number	Summary of changes
12/04/2000	L6933/1996/4	Licence reissue
14/05/2001	L6933/1996/5	Licence reissue
1/05/2002	L6933/1996/6	Licence reissue
14/05/2003	L6933/1996/7	Licence reissue
26/05/2003	L6933/1996/7	Licence amended to increase throughput to 610,000 tpa
31/05/2004	L6933/1996/8	Licence reissue
31/05/2005	L6933/1996/9	Licence reissue
30/05/2005	L6933/1996/9	Removed conditions 8 to 11 (TSF, Storm water and Pipeline)
12/08/2005	L6933/1996/10	Licence reissue and Lion Ore completed takeover from MPI
13/10/2005	L6933/1996/11	Licence reissue
26/04/2007	L6933/1996/12	Licence reissue and TSF lift to AHD71
27/04/2010	L6933/1996/13	Licence reissue and rectify administrative error and include new monitoring bores
27/04/2013	L6933/1996/14	Licence re-issue and conversion to REFIRE format
12/02/2015	L6933/1996/14	Minor amendment to amend incorrect AER submission date, change parameters of flow rate for monitoring total volume in process monitoring, change premises production for dewatering and add appropriate suite of metals to ambient groundwater monitoring.
16/04/2015	L6933/1996/14	Licence transfer from Black Swan Nickel Pty Ltd to Poseidon Nickel Limited.
17/12/2015	L6933/1996/14	Licence amendment to reduce monitoring frequency whilst in care and maintenance.
29/04/2016	L6933/1996/14	Notice of amendment to change licence duration
22/06/2017	L6933/1996/14	Amendment notice 1: amendment to reduce groundwater monitoring frequency whilst in care and maintenance from six monthly to annually.
16/05/2022	L6933/1996/14	Notice of amendments to change environmental report reporting frequency from annually to biennially.

24/03/2025	L6933/1996/14	CEO-initiated amendment to extend licence duration by 5 years and amalgamate previous Amendment Notices.
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## Interpretation

In this licence:

- (a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;
- (b) 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;
- (c) where tables are used in a condition, each row in a table constitutes a separate condition;
- (d) any reference to an Australian or other standard, guideline, or code of practice in this licence:
  - (i) if dated, refers to that particular version; and
  - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) 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:

### Infrastructure and equipment

1. The licence holder must ensure that tailings and/or 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.

**Table 1: Infrastructure and equipment requirements**

Site infrastructure and equipment	Material	Infrastructure requirements
Black Swan disseminated TSF (BSD TSF)	Tailings Dewatering from Silver Swan underground mine	Lined with 500mm clay to achieve a permeability of at least $<10^{-8}$ m/s or equivalent
Silver Swan TSF	No longer used	
Settling pond	Dewater from underground mine	HDPE lined
Decant pond	Seepage from BSD TSF, the seepage trench, and bore 6	Lined with 1mm HDPE to achieve a permeability of at least $<10^{-9}$ m/s or equivalent
Process water dam	Water from settling pond and brine from reverse osmosis plant, used for processing of ore	
Underground Dam	Water from settling pond, used for dust suppression	

2. The licence holder must ensure that all pipelines containing tailings, decant recovery, process water or mine dewater 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.
3. The licence holder must manage TSF's 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 TSF; and
  - (c) seepage is returned to the TSF or the process.
4. The licence holder must maintain a seepage interceptor drain immediately downstream of the tailings dam and return the seepage collected in the drain to the tailings dam, processing plant or the evaporation ponds.

## Monitoring

5. The licence holder must:
- undertake inspections as detailed in Table 2;
  - where any inspection identifies that an appropriate level of environmental protection is not being maintained, take corrective action to mitigate adverse environmental consequences;
  - maintain a record of all inspections undertaken; and
  - investigate and implement tools for deterring birds and wildlife should they be consistently observed at the ponds or Black Swan Disseminated TSF.

**Table 2: Inspection of infrastructure**

Scope of Inspection	Type of inspection	Frequency of inspection
Underdrainage pipeline outlet	Visual integrity	Daily when operational, three times per week during care and maintenance
Above ground dewatering pipeline, settling pond and process water pond	Visual integrity	
Black Swan Disseminated TSF (BSD TSF)	Visual to confirm absence of/ or minimal surface ponding (<15%)	
Ponds and TSF	Visual inspection to assess presence/absence of wildlife / birds	
Underground dewatering pipeline	Visual integrity	

6. The licence holder must ensure that:
- all water samples are collected and preserved in accordance with AS/NZS 5667.1;
  - all groundwater sampling is conducted in accordance with AS/NZS 5667.11; and
  - 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.
7. The licence holder must ensure that:
- quarterly monitoring is undertaken at least 45 days apart;
  - six monthly monitoring is undertaken at least five months apart; and
  - annual monitoring is undertaken at least 9 months apart.
8. The licence holder must undertake the monitoring in Table 3 according to the specifications in that table.

**Table 3: Process monitoring**

Monitoring point reference	Parameter	Units	Frequency	Method
Black Swan Disseminated TSF	Volumes of tailings deposited into the TSF	m <sup>3</sup>	Monthly	None specified
	Volumes of mine dewater discharged into the TSF	m <sup>3</sup>	Monthly	None specified
	Volumes of water recovered from the TSF	m <sup>3</sup>	Monthly	None specified

9. The licence holder must undertake the monitoring in Table 4 according to the specifications in that table and record and investigate results that do not meet any limit specified.

**Table 4: Monitoring of ambient groundwater quality**

Monitoring point reference	Parameter	Limit	Units	Averaging period	Frequency
Silver Swan and Cygnet TSF TD1, TD2, TD3, TD4, TD5, TD6, TD7, TD8, TD9, TD10, TD11, TD12 (Schedule 1 – Map)	Standing Water Level (SWL)	4	mbgl	Spot sample	Annually while in care and maintenance
	pH	-	pH units		
	Total Dissolved Solids (TDS); Weak Acid dissociable cyanide (WAD CN); Cobalt; Total CN; Sulfate; Chloride; Sulfate / Chloride ratio, Selenium, Zinc, Nickel, Copper, Aluminium, and Manganese	-	mg/L		Quarterly when in operation
Black Swan Disseminated TSF MB1, MB1a, MB2, MB3, MB6 & MB7 ((Schedule 1 – Map)	Standing Water Level (SWL)	4	mbgl	Spot sample	Annually while in care and maintenance
	pH	-	pH units		
	Total Dissolved Solids (TDS); Weak Acid dissociable cyanide (WAD CN); Cobalt; Total CN; Sulfate; Chloride; Sulfate / Chloride ratio, Selenium, Zinc, Nickel, Copper, Aluminium, and Manganese	-	mg/L		Quarterly when in operation

10. The licence holder shall, upon becoming aware that a standing water level in a monitoring bore listed in Table 4, is less than 4m below ground level, within six months design and implement a groundwater recovery plan.

## Records and reporting

### Records

- 11.** The licence holder must record the following information in relation to complaints received by the licence holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:
- (a) the name and contact details of the complainant, (if provided);
  - (b) the time and date of the complaint;
  - (c) the complete details of the complaint and any other concerns or other issues raised; and
  - (d) the complete details and dates of any action taken by the licence holder to investigate or respond to any complaint.
- 12.** The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
- (a) the calculation of fees payable in respect of this licence;
  - (b) any maintenance of infrastructure that is performed in the course of complying with conditions 1 and 5 of this licence;
  - (c) monitoring programmes undertaken in accordance with conditions 8 and 9 of this licence; and
  - (d) complaints received under condition 11 of this licence.
- 13.** The books specified under condition 12 must:
- (a) be legible;
  - (b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;
  - (c) be retained by the licence holder for the duration of the licence; and
  - (d) be available to be produced to an inspector or the CEO as required.

### Reporting

- 14.** The licence holder must:
- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period, and
  - (b) prepare and submit to the CEO an Annual Audit Compliance Report in the approved form by 1 March each year.
- 15.** The licence holder must:
- (a) prepare an Environmental Report that provides information in accordance with Table 5 for the preceding two annual period, and
  - (b) submit that Environmental Report to the CEO by 1 March 2024 and biennially thereafter.

**Table 5: Environmental reporting requirements**

Condition or table	Parameter	Format or form
	Summary of any failure or malfunction of any pollution control equipment or any incidents that have occurred during the year and any action taken.	None specified
11	Complaints summary	None specified
Table 3	Monthly volumes in m <sup>3</sup>	None specified
Table 4	Monitoring of ambient groundwater quality results, including limit exceedances	None specified

16. The Licence Holder must ensure that the Environmental Report also contains an assessment of the information contained within the report against previous monitoring results and Licence limits and/or targets.

17. The licence holder must submit the information in Table 6 to the CEO according to the specifications in that table.

**Table 6: Non-annual reporting requirements**

Condition or table (if relevant)	Parameter	Reporting period	Reporting date (after end of the reporting period)	Format or form
-	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

18. The licence holder must ensure that the parameters listed in Table 7 are notified to the CEO in accordance with the notification requirements of the table.

**Table 7: Notification requirements**

Condition or table (if relevant)	Parameter	Notification requirement <sup>1</sup>
Condition 9	Breach of any limit specified in the Licence.	No later than 5pm of the next usual working day.
-	Intention for the site to recommence normal operations from care and maintenance status.	At least 30 calendar days prior to site recommencing operations.

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



## Definitions

In this licence, the terms in Table 8 have the meanings defined.

**Table 8: Definitions**

Term	Definition
ACN	Australian Company Number
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12-month period commencing from 1 January until 31 December of the same year.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance of the Design of sampling programs, sampling techniques and the preservation and handling of samples.</i>
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on sampling of groundwaters.</i>
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. “submit to / notify the CEO” (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: <a href="mailto:info@dwer.wa.gov.au">info@dwer.wa.gov.au</a>
department; DWER	means the department established under section 35 of the <i>Public Sector Management Act 1994</i> (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
EP Act	<i>Environmental Protection Act 1986</i> (WA)
freeboard	means the distance between the maximum water surface elevations and the top of retaining banks or structures at their lowest point.
licence	refers to this document, which evidences the grant of a licence by the CEO under section 57 of the EP Act, subject to the specified conditions contained within.
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.

<b>Term</b>	<b>Definition</b>
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	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises maps in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
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.
saline	means any liquid containing greater than 14,000mg/L total dissolved solids (TDS).
spot sample	means a discrete sample representative at the time and place at which the sample is taken.

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**END OF CONDITIONS**

# Schedule 1: Maps

## Premises map

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

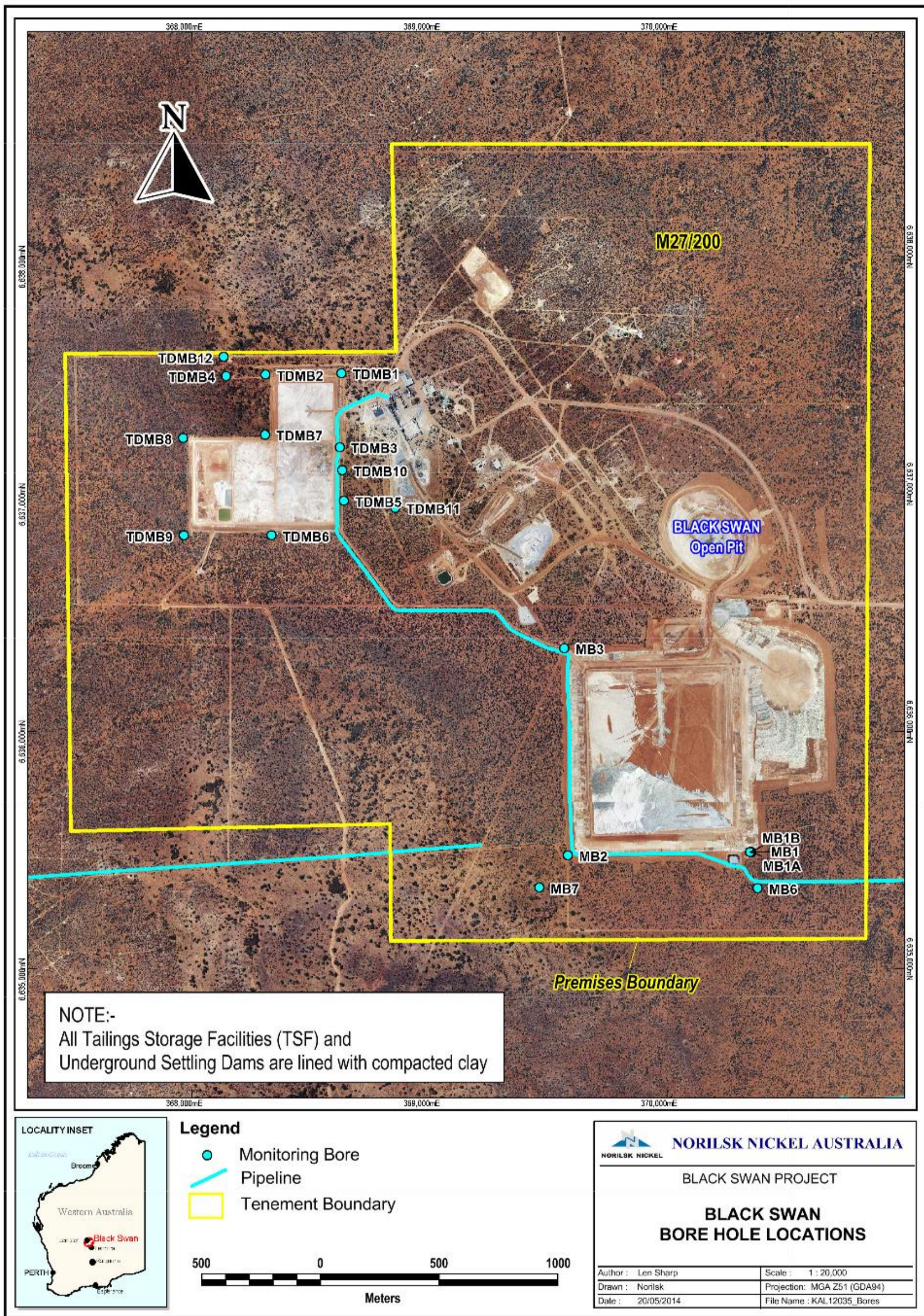


Figure 1: Map of the boundary of the prescribed premises

L6933/1996/14

**Map of monitoring locations**

The locations of the monitoring points defined in Table 4 are shown below in Figure 2.



**Figure 2: Monitoring locations**