



Licence number	L9037/2017/1
Licence holder	Mt Marion Lithium Management Pty Ltd
ACN	666 116 365
Registered business address	20 Walters Drive OSBORNE PARK WA 6017
DWER file number	DER2017/000308-1, INS-0001992, APP-0031355
Duration	27/06/2017 to 26/06/2035
Date of issue	27/06/2017
Date of amendment	18 February 2026
Premises details	Mount Marion Lithium Project COOLGARDIE WA 6429 Mining tenement M15/1000, M15/717, M15/841 and on private land known as Hamptons Lease Area 53, portion of Lot 105 on Deposited Plan 40396, Volume 2668 Folio 420.

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production capacity
Category 5: Processing or beneficiation of metallic and non-metallic ore	5,000,000 tonnes per year
Category 6: Mine dewatering	650,000 tonnes per year
Category 12: Screening etc. of material	200,000 tonnes per year
Category 54: Sewage facility, 100 m ³ or more per day	170 m ³ /day
Category 57: Used tyre storage (general)	1,000 tyres
Category 64: Class II putrescible landfill	2,000 tonnes per annum
Category 73: Bulk storage of chemicals etc.	480 kL LNG, 884 kL Diesel
Category 85B: Water desalination plant	0.73 gigitalitres per year

This amended licence is granted to the licence holder, subject to the attached conditions, on 18 February 2026, by:

**SENIOR ENVIRONMENTAL OFFICER,
GREEN ENERGY**

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

Licence history

Date	Reference number	Summary of changes
27/06/2017	L9037/2017/1	Licence granted.
16/12/2017	L9037/2017/1	Amendment Notice 1 - Amendment to allow 2.1 Mtpa of coarse reject (tailings) material to be disposed to: <ul style="list-style-type: none"> western verge of Ghost Crab Pit northern ramp of Ghost Crab Pit Backloaded to existing waste rock landforms on M15/1000 and co-mingled with existing waste from mining operations.
31/05/2019	L9037/2017/1	Amendment Notice 2 - Throughputs increased to: <ul style="list-style-type: none"> Category 5 – 3.0 Mtpa using upgraded spodumene processing plant Category 64 – 1250 tpa (operation of additional landfill in waste rock dump) Category 73 – 480 kL LNG Category 85 – 70 m³/day (construction and operation of an additional WWTP and doubling of spray field)
19/09/2019	L9037/2017/1	Amendment to allow: <ul style="list-style-type: none"> Use of approximately 10,000 tonnes / annual period of coarse rejects (coarse fraction of the tailings stream) for construction purposes. Discharge approximately 35,040 tonnes per year of oleic acid sludge material (from the Dissolved Air Flotation (DAF) process) sludge to the Ghost Crab Pit TSF; Addition of Category 85B to allow disposal of 0.73 GL per annum of RO (reverse osmosis) brine into the Mt Marion pits (N1, N2 and C1), this involves construction of discharge pipelines from the RO Plant and turkey's nests to the discharge pits. Addition of Category 6 to allow for disposal of 0.65 GL of dewater from the North (N1 & N2) and Central pits (C1) into adjacent pits or to containment structures (turkeys nests) onsite; This involves the construction of discharge pipelines from the North and Central Pits to other Mt Marion pits and/or turkeys nests. Use of dewater / RO Brine water for dust suppression onsite not allowed Consolidation of Amendment Notices 1 and 2 into the amended licence.
5/07/2022	L9037/2017/1	Amendment to allow: <ul style="list-style-type: none"> Change in Prescribed Premise boundary (inclusion of Hamptons Lease area). Change in Category 6: Dewatering location (to include the Hamptons Lease area)

		<ul style="list-style-type: none"> ▪ Change to the Category 64: Class II putrescible landfill – throughput increased to 2,000 tonnes and footprint increased to include entire waste rock landform. ▪ Addition of Category 12: Screening of material – throughput of 100,000 tpa. ▪ Change to Category 85: Sewage facility and WWTP capacity: replacement of the two WWTP with 1 new WWTP, throughput of 70 m³/day. Another new WWTP to be constructed in parallel with the 70m³/day plant to increase throughput to 90 m³/day. ▪ Change in Table 9: Infrastructure and Equipment description: <ul style="list-style-type: none"> - Process Plant: removal of specific conveyor numbers and inclusion of further crushing and screening infrastructure to allow plant to reach current throughput of 3.0 Mtpa, and - Category 73 infrastructure updated to reflect current infrastructure on premises. ▪ Removal of completed conditions.
19/12/2023	L9037/2017/1	<p>Amendment to:</p> <p>Increase throughput of categories 5 (to 5 Mtpa), 12 (to 200,000 tpa) and 73 (diesel to 884 kL).</p> <p>Removal of infrastructure already constructed from infrastructure design and construction requirements table.</p> <p>Addition of annual environmental reporting condition.</p> <p>Restructure licence conditions to latest licence format.</p>
28/08/2024	L9037/2017/1	<p>Amendment to:</p> <ul style="list-style-type: none"> • Change Licence Holder name and ACN. • Add additional tailings discharge points (spigots) to the existing Ghost Crab In-Pit Tailings Storage Facility • Transfer Wastewater Treatment Plant (WWTP) Stage two and three from works approval W6744/2022/1 to this licence. • Amend the existing Category 85 to Category 54 with a maximum capacity of 170 m³/ day. • Administrative change of typographical error, increasing diesel storage capacity from 854 kL to 884 kL.
09/09/2025	L9037/2017/1	<p>Amendment to:</p> <p>Category 5 (Tailings Storage Facility) - Amend total freeboard from RL 374 max tailings level (below ~ 6m from lowest point of pit crest) to 0.5m below the pit crest max.</p> <p>Category 5 (Mobile Crushing and Ore Sorting) - Increase the approved footprint.</p> <p>Merge Operational requirement 9 & 10 (dust suppression, intent to have abatement infrastructure available and maintained but not prescribed to be in use at all times) from Table 2 of licence.</p>

18/02/2026	L9037/2017/1	<p>Amendment to:</p> <p>Include Waste Dump 07 as an authorised discharge point for coarse reject tailings materials</p> <p>Extend premises boundary</p> <p>Extend period to deliver report providing the site-specific report regarding concentration ratios for Ra226, Ra228, Pb210, gross alpha and gross beta.</p> <p>Update condition for Dust Management Plan to implementation</p>
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Definitions

In this licence, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	means an amendment granted under s.59 of the EP Act in accordance with the procedure set out in s.59B of the EP Act.
Annual Period	means a 12-month period commencing from 1 January until 31 December.
Approved Policy	has the same meaning given to that term under the EP Act.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 <i>Water Quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.</i>
AS/NZS 5667.10	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on the sampling of waste waters.</i>
AS/NZS 5667.11	means the Australian Standard AS/NZS 5667.11 <i>Water Quality – Sampling – Guidance on the sampling of groundwaters.</i>
BOD	Biochemical Oxygen Demand
BC Act	Biodiversity Conservation Act 2016 (WA)
Books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 JOONDALUP DC WA 6919 info@dwer.wa.gov.au
Compliance Report	means a report in a format approved by the CEO as presented by the Licence Holder or as specified by the CEO (guidelines and templates may be available on the Department's website).
Condition	means a condition to which this Licence is subject under s.62 of the EP Act.
Department	means the department established under s.35 of the <i>Public Sector Management Act 1994</i> and designated as responsible for the administration of Part V, Division 3 of the EP Act.

Department of Water and Environmental Regulation

Department Request	means a request for Books or other sources of information to be produced, made by an Inspector or the CEO to the Licence Holder in writing and sent to the Licence Holder's address for notifications, as described at the front of this Licence, in relation to: <ul style="list-style-type: none"> (a) compliance with the EP Act or this Licence; (b) the Books or other sources of information maintained in accordance with this Licence; or (c) the Books or other sources of information relating to Emissions from the Premises.
Discharge	has the same meaning given to that term under the EP Act.
DMIRS	Department of Mines, Industry Regulation and Safety.
DWER	Department of Water and Environmental Regulation.
Emission	has the same meaning given to that term under the EP Act.
Environmental Harm	has the same meaning given to that term under the EP Act.
EP Act	means the <i>Environmental Protection Act 1986 (WA)</i> .
EP Regulations	means the <i>Environmental Protection Regulations 1987 (WA)</i> .
Freeboard	means the distance between the maximum water surface elevation and the top of retaining banks or structures at their lowest point.
HDPE	High density polyethylene
Implementation Agreement or Decision	has the same meaning given to that term under the EP Act.
Inspector	means an inspector appointed by the CEO in accordance with s.88 of the EP Act.
Licence	refers to this document, which evidences the grant of a Licence by the CEO under s.57 of the EP Act, subject to the Conditions.
Licence Holder	refers to the occupier of the premises being the person to whom this Licence has been granted, as specified at the front of this Licence.
LNG	liquefied natural gas
Material Environmental Harm	has the same meaning given to that term under the EP Act.
mbgl	metres below ground level
P1 and P2	Priority flora and fauna listed in accordance with the Biodiversity Conservation Act 2016 (WA).
Pollution	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Licence applies, as specified at the front of this Licence and as shown on the map in Schedule 1 to this Licence.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Primary Activities	refers to the Prescribed Premises activities listed on the front of this Licence as described in Schedule 2, at the locations shown in Schedule 1.
RO Brine	Reverse Osmosis Brine
Serious Environmental	has the same meaning given to that term under the EP Act.

Harm	
Spot sample	a discrete sample taken randomly (with regard to time and/or location) from a body of water.
Unreasonable Emission	has the same meaning given to that term under the EP Act.
Waste	has the same meaning given to that term under the EP Act.
Works	refers to the Works described in Table 3 at the locations shown in Schedule 1 of this Licence to be carried out at the Premises, subject to the Conditions.
WWTP	Wastewater Treatment Plant

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

- The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 2.

Table 2: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
Ore processing infrastructure		
Crushing circuits: Primary, secondary and tertiary crusher, screens, conveyors, product stackers	<ol style="list-style-type: none"> Dust suppression systems must be used during operation. Dust suppression systems including water sprays fitted to conveyors, head chutes and stackers must be kept maintained. Drive in sumps maintained to capture sediment in stormwater runoff 	Refer to Schedule 1, Figure 1: Crushing and beneficiation plant
Beneficiation Plant: Process and raw water tanks, Wet screening and sizing circuit, Dense Media Separation (DMS) plant including fines treatment, Dense media regrind circuit, Classification cyclone and classifiers, Flotation circuit, Thickeners	<ol style="list-style-type: none"> All pipelines containing environmentally hazardous materials are provided with secondary containment adequate to contain any spill for a period equal to the time between routine inspections. 	Refer to Schedule 1, Figure 1: Crushing and beneficiation plant
Tailings storage facility (tailings): Ghost Crab in-pit TSF	<ol style="list-style-type: none"> The maximum tailings level must not exceed 0.5 m below the pit crest max. Tailings discharge to Ghost Crab to be via multiple spigots, which will be rotated to achieve an even rate of tailings rise within the facility. All piping will be constructed in accordance with AS/NZS 2033:2008 "<i>Installation of polyethylene pipe systems</i>" and contained within appropriate sized bunding to contain any potential spills. Where water levels reach 8m BGL within 	Refer to Schedule 1, Figure 1: Ghost Crab Tailings Storage Facility

Site infrastructure and equipment	Operational requirement	Infrastructure location
	monitoring/recovery bores MM24MB35, MM24MB36, MM24MB37 and MM24MB38; pumping from the affected bores to the RO plant until the water level decreases below 8 m.	
Tailings storage (coarse reject material): Waste rock landforms	9. Waste rock landforms containing coarse reject tailings must have drainage capable of containing any run-off or stormwater originating from the landform surface.	Refer to Schedule 1, Figure 1: Waste Rock Landforms 1 –7
Ore sorting infrastructure Used in conjunction with mobile crushing plants.	10. Dust suppression systems must be available for use at all times during operation. 11. Dust suppression systems including water sprays fitted to conveyors, head chutes and stackers must be kept maintained. 12. Dust suppression system must be used when dust uplift is observed in the mobile crushing area.	Refer to Schedule 1, Figure 2: Mobile crushing areas
Categories 5, 6 and 85B water management infrastructure		
Turkey's Nests (Processing and dewatering)	13. Lined with HDPE; and 14. 300 mm freeboard to be maintained.	Refer to Schedule 1, Figure 1: Mining turkeys nest, Processing turkeys nest, Other labelled turkeys nests Any turkeys nest present on the prescribed premises and not labelled in the figures of Schedule 1.
Pipelines: Including tailings, tailings return, dewatering and RO brine pipelines	15. Must be positioned in v-drains with sufficient capacity to contain any spill for a period equal to the time between routine inspections. 16. Must be inspected daily. 17. Isolation valves, telemetry and flow meters are to be maintained to manufacturers specifications	Refer to Schedule 1, Figure 3
Northern Pit 1, Northern Pit 2 Central C01 Pit;	18. A minimum vertical freeboard of 6 meters must be maintained below the lowest crest level at all times.	Refer to Schedule 1, Figure 3

Site infrastructure and equipment	Operational requirement	Infrastructure location
Categories 5 and 12 Crushing and screening infrastructure		
Mobile crushing plants Category 5	19. Bunds maintained around the screening plant and product stockpile area 20. Shields and covers on transfer points to be kept maintained and dust controlled at all times to prevent dust from impacting sensitive receptors.	Refer to Schedule 1, Figure 2: Mobile crushing areas
Mobile crushing plants Category 12		Refer to Schedule 1, Figure 1: Waste rock landforms 1 - 7
Category 54 wastewater treatment infrastructure and management		
Wastewater treatment plants Submerged aerated filter WWTP capacity 70 m ³ /day Two Sequence Batch Reactor WWTPs, each of capacity of 50 m ³ /day Irrigation field	21. Tank bunding to be maintained so as to contain volume of 110% of the largest tank. 22. Treated effluent is to be discharged via irrigation to the 6.64 ha irrigation field indicated in Schedule 1, Figure 1 23. Sprinklers in the irrigation field are to be maintained and operated such that the effluent does not pond or runoff from the irrigation field.	Refer to Schedule 1, Figure 1: WWTP and spray field
Category 57 Used tyre management		
Used tyre storage	24. Maximum of 1,000 tyres stored across the premises. 25. Stored at two waste disposal facilities and at workshops.	Refer to Schedule 1, Figure 1
Category 64 landfill infrastructure and management		

Site infrastructure and equipment	Operational requirement	Infrastructure location
<p>Class II putrescible landfill</p>	<p>26. Landfill trenches to be located on waste rock landforms within the Waste Rock Landform boundary seen in Figure 1.</p> <p>27. No more than two landfill trenches are to be open on the waste rock landform at any one time.</p> <p>28. Tip face to not exceed 30 m in length.</p> <p>29. Landfill trench not to exceed 2 metres in depth, and</p> <p>30. Tipping area(s) to be covered each week with a dense (at least 200 mm) layer of inert and incombustible material.</p> <p>31. Signage to be maintained so as to be legible.</p> <p>32. Inspected weekly to ensure correct wastes are being disposed of and that trenchers are being covered weekly</p> <p>33. Waste that has been washed or blown away from the tipping area is to be return to the tipping area at least one in each month.</p>	<p>Refer to Schedule 1, Figure 1:</p> <p>Landfill & biofarm (Ghost Crab WRL)</p> <p>Waste Rock Landform 2 and Landfill</p>
<p>Category 73</p>		
<p>Fuel supply: 3 x 57,000 L diesel tanks, 1 x 53,000 L, and 6 x 110,000 L tanks.</p> <p>LNG: 8 x 60,000L tanks</p>	<p>34. None specified</p>	<p>Refer to Schedule 1, Figure 1:</p> <p>LNG/Fuel Farm</p>
<p>Category 85B Reverse osmosis water treatment infrastructure</p>		
<p>Reverse Osmosis Plant</p>	<p>35. None specified</p>	<p>Refer to Schedule 1, Figure 3:</p> <p>RO plant</p>
<p>Other Activities:</p>		
<p>Biofarm (bioremediation pad) within Ghost Crab waste rock landform</p> <p>Workers' accommodation camp</p> <p>Motor Control Centres within Processing Plant</p> <p>Control rooms/administration offices/workshops</p> <p>Final product stockyard, weighbridge</p>	<p>36. None specified</p>	<p>Refer to Schedule 1, Figure 1 and Figure 3.</p>

Infrastructure design and construction

2. The Licence Holder must install and undertake the Works for the infrastructure and equipment:
 - (a) specified in Column 1;
 - (b) to the requirements specified in Column 2; and
 - (c) at the location specified in Column 3 of Table 3 below.
3. Within 60 days of the completion of the Works specified in Column 1 of Table 3, the Licence Holder must provide to the CEO a compliance document certified by the installer confirming each item of infrastructure or component of infrastructure specified in Column 1 of Table 3 below has been constructed to the requirements specified in Column 2. The compliance document shall be signed by a person authorised to represent the licence holder.

Table 3: Infrastructure design and construction requirements

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
Category 5 infrastructure		
Ore sorting infrastructure	1. Dust suppression systems must be installed that include <ol style="list-style-type: none"> a. water sprays fitted to conveyors, head chutes and stackers, b. fitting of screens and covers on transfer points. 	Category 5 infrastructure refer to Schedule 1, Figure 2: Mobile crushing areas
Dewatering and RO Brine disposal infrastructure		
Pipelines: Including tailings, tailings return, dewatering and RO brine pipelines	2. Up to 500 mm diameter welded poly pipeline with v-drains installed.	Refer to Schedule 1, Figure 3
	3. Isolation valves and telemetry to be installed.	
	4. A flow meter to be installed on each pipeline to allow discharge volumes to be measured.	
V- drains	5. The v-drains must have sufficient capacity to completely contain any discharges from pipeline leakage or breach for a period equal to the time between routine inspections.	Not depicted
Dewatering and RO Brine turkey nests	6. Constructed with minimum 1.5 mm welded HDPE liner	As shown in Figure 1 in Schedule 1
	7. Fenced to prevent fauna access	
Dust deposition gauges	8. Dust deposition monitors <ol style="list-style-type: none"> a. Selected and installed in accordance with AS/NZS 3580 b. Minimum 4 units with 1 placed to capture background ambient dust deposition c. Placed between crushing and 	Locations to be determined. Provided in accordance with Condition 15.

Column 1	Column 2	Column 3
Infrastructure/ Equipment	Requirements (design and construction)	Site plan reference
	screening operations to within 30m of <i>Eucalyptus websteriana</i> (P1) and <i>Lepidosperma</i> sp. Kambalda (P2) populations	

Emissions and discharges

4. The licence holder must ensure that the emissions specified in Table 4, are discharged only from the corresponding discharge point and only at the corresponding discharge point location.

Table 4: Authorised discharge points

Emission	Discharge point	Discharge point location
Tailings (with the exception of coarse reject material)	Ghost Crab Pit in-pit TSF	As shown in Schedule 1: Figure 1
Coarse reject (tailings) materials	Discharge to Waste rock landforms, Or Use for construction purposes only within operational pit areas or within the processing plant footprint.	As shown in Schedule 1, figure 1: Waste Rock Landforms 1 – 7 Northern Pits 1 and 2 Central Pit (C01) Beneficiation plant
Treated effluent from WWTPs	Irrigation spray field	As shown in Schedule 1: Figure 1
Class II waste (putrescible and inert)	Trenches within the Landfill & biofarm (Ghost Crab WRL) and Waste Rock Landform 2 and Landfill	As shown in Schedule 1: Figure 1
Used tyres and rubber	Waste rock landforms 1 -5 Ghost Crab Pit Northern Waste Rock Landform. Ghost Crab Southern Waste Rock Landform	As shown in Schedule 1: Figure 1
Dewatering effluent	Pits: Northern Pit 1, Northern Pit 2 and Central C01 Pit; Ghost Crab in- Pit TSF; and dust suppression within operational areas of process plant and mines.	As shown in Schedule 1: Figure 1 and 4
RO Brine	Ghost Crab Pit in-pit TSF; and Pits: Northern Pit 1, Northern Pit 2 and Central C01 Pit RO Brine is not to be used for dust suppression	As shown in Schedule 1: Figure 1

Department of Water and Environmental Regulation

Dust suppression.

5. The licence holder must ensure that where groundwater and dewater effluent is used for dust suppression, it is applied in a manner that does not impact vegetation.
6. The licence holder must ensure dewatering effluent is only used for dust suppression activities within already cleared areas within the area depicted in Schedule 1, Figure 4, excluding topsoil stockpiles and rehabilitation.

Discharge of dewatering effluent to Ghost Crab In-Pit TSF

7. The licence holder must only discharge up to 16,000 kL/year of dewatering effluent to the Ghost Crab In-Pit TSF.

Emission Limits

8. The licence holder must ensure that the treated wastewater effluent that is discharged to the irrigation spray field for the parameters in Column 1 of Table 5 meets the limits specified in Column 2 of Table 5.

Table 5: Treated effluent quality limits table

Column 1	Column 2
Parameters	Limit
BOD	<30 mg/L
Total Suspended Solids	<40 mg/L
Total Nitrogen	≤50 mg/L
Total Phosphorus	≤12 mg/L
pH	6.5 – 8.5
Thermo-tolerant Coliforms (<i>E.coli</i>)	<1000 cfu/100ml

Monitoring

9. The licence holder must ensure that:
 - (a) monitoring is undertaken in each monthly period such that there are at least 15 days in between the days on which samples are taken in successive months;
 - (b) monitoring is undertaken in each quarterly period such that there are at least 45 days in between the days on which samples are taken in successive quarters; and
 - (c) monitoring is undertaken in each annual period such that there are at least 9 months in between the days on which samples are taken in successive years.
10. All sample analysis must be undertaken by laboratories with current accreditation from the National Association of Testing Authorities (NATA) for the relevant parameters, unless indicated otherwise in the relevant table.
11. The licence holder must 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.

Discharge Point Monitoring

- 12.** The licence holder must monitor emissions:
- from each discharge point;
 - at the corresponding monitoring location;
 - for the corresponding parameter;
 - at the corresponding frequency;
 - in the corresponding unit; and
 - using the corresponding method,
- as set out in Table 6.

Table 6: Emissions and discharge monitoring

Discharge point	Monitoring location	Parameter	Frequency	Unit	Method
Ghost Crab in-pit TSF	Tailings pipeline flowmeter	Volume of tailings (wet)	Monthly	kL	-
	Tailings decant pond	Level of the tailings decant pond in Ghost Crab Pit	Annually	Metres below lowest point of pit crest and m RHD	-
Waste rock landforms as depicted in Schedule 1, Figure 1	-	Volume of tailings (coarse rejects)	Monthly	Tonnes	Calculated from volume of coarse rejects discharged to waste rock landforms
Dewatering water discharged to Ghost Crab in-pit TSF	Ghost Crab Pit dewatering line flow meter	Volume of dewatering water	Monthly	kL	-
RO Brine discharged to Northern Pts 1 and 2 and Central Pit (C01)	RO Brine line flow meter	Volume of RO Brine	Monthly	kL	
RO Brine discharged to Ghost Crab in-pit TSF	Ghost Crab Pit RO Brine line flow meter	Volume of RO Brine	Monthly	kL	

Discharge point	Monitoring location	Parameter	Frequency	Unit	Method
Dewatering discharged to Northern Pts 1 and 2 and Central Pit (C01)	Dewatering pipeline flow meters	Volume of dewatering	Monthly	kL	
Water used for dust suppression (mixture of raw water and dewatering effluent)	Turkeys nests where dust suppression water is drawn from.	Volume	Monthly	kL	AS/NZS 5667.1 AS/NZS 5667.11
		Ra ²²⁶ ,	Quarterly	Bq/L	
		Ra ²²⁸			
		Pb ²¹⁰			
		Gross α			
Gross β					
WWTP treated effluent	discharge pipeline (post treatment and pre-discharge)	BOD	Quarterly	mg/L	AS/NZS 5667.10
		Total Suspended Solids		mg/L	
		Total Nitrogen		mg/L	
		Total Phosphorus		mg/L	
		pH		-	
		Thermo-tolerant Coliforms (<i>E. coli</i>)		cfu/100ml	
Crushing and screening mobile plant	Dust deposition gauges	Deposited dust	Quarterly	g/m ² /month	In accordance with Schedule 2

Ambient Monitoring

- 13.** The licence holder must monitor the groundwater for the parameter listed in Table 6:
- at the corresponding monitoring location;
 - in the corresponding unit;
 - at no less that the corresponding frequency; and
 - for the corresponding averaging period.,
- as set out in Table 7.

Table 7: Monitoring of ambient groundwater

Parameter	Monitoring location	Unit	Frequency	Averaging period
Standing water level	Monitoring bores MTMPZ1, MTMPZ2, MTMPZ4, MM24MB35, MM24MB36, MM24MB37 and MM24MB38 as depicted in Schedule 1, Figure 5	mbgl	quarterly	Spot samples
pH, electrical conductivity and temperature	MM24MB35, MM24MB36, MM24MB36 and MM24MB3, as depicted in Schedule 1, Figure 5	-	quarterly	Spot Samples

Monitoring of tailings storage facility water balance

- 14.** The licence holder must undertake monitoring of the water balance for Ghost Crab in pit TSF each monthly period, and (as a minimum) record the following information:
- site rainfall;
 - evaporation rate;
 - decant water recovery volumes;
 - volume of tailings deposited;
 - tailings solid content (w/w%);
 - volume of water in tailings;
 - volume of reverse osmosis brine discharged to Ghost Crab in-pit TSF;
 - volume of dewatering effluent discharged to Ghost Crab in-pit TSF;
 - estimate of seepage losses; and
 - volume of water recovered through the seepage recovery bores.

Crushing and screening dust monitoring

- 15.** The licence holder must implement depositional dust monitoring in accordance with Schedule 2 including:
- Location and specifications of the monitoring instruments used as well as calibration, maintenance, and operational specifications
 - Trigger action response with timeframes, where deposition on sensitive receptors exceeds 40 g/m²/month
 - Regular data and monitoring location review; and
 - Assessment of data collection efficiency and identification of trends.

Recording of results of monitoring

- 16.** The licence holder must record the results of all monitoring activity required by conditions 12, 13, 14 and 15.

Specified Actions (dust suppression)

17. The licence holder must develop site-specific concentration ratios for Ra²²⁶, Ra²²⁸, Pb²¹⁰, gross alpha and gross beta. These ratios must be developed through monitoring in accordance with the guideline the IAEA *Technical reports series No. 486* (IAEA, 2019).
18. A report providing the site specific concentration ratios as required by condition 17 must be submitted by **30 June 2026**. The report must include results of monitoring of site-specific species, the site specific concentration ratios and a discussion on how they were derived from the monitoring.
19. A soil monitoring plan must be developed to assess the levels of contamination by radionuclides within soil that is potentially impacted by the application of water for dust suppression. The monitoring plan must be developed in accordance with the guidelines, *Guideline Assessment and management of contaminated sites* and the *Technical reports series No. 486* (IAEA, 2019), and submitted by 1 December 2024.
20. The licence holder must use the site-specific concentration ratios developed in condition 17, the radionuclide levels monitored in accordance with condition 12 and the plan provided under condition 18, to assess the rate of accumulation of radionuclides due to dust suppression activities and calculate the peak radiological impact as expected at the end of mine life. This assessment must be completed and submitted in a report to the CEO by 30 March 2028.
21. If the peak radiological impact as calculated in condition 19 is estimated to exceed 0.88 Bq/g (maximum) or 0.67 Bq/g (average), a dust management plan must be submitted that will ensure the peak radiological impact will not exceed 0.88 Bq/g (maximum) or 0.67 Bq/g (average). This plan must be submitted to the CEO within 90 days of the report required in condition 19.

Records and reporting

Non-compliance Notification (7 Days)

22. 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.
23. 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 by no later than 30 March each year an Annual Audit Compliance Report in the approved form.
24. 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;

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- (b) the works conducted in accordance with condition 3 of this licence;
 - (c) any maintenance of infrastructure that is performed in the course of complying with condition 1 of this licence;
 - (d) monitoring programmes undertaken in accordance with conditions 12, 13, 14 and 15 of this licence; and
 - (e) complaints received under condition 22 of this licence.
- 25.** The books specified under condition 24 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.

Annual Environmental Report

- 26.** The licence holder must submit to the CEO by no later than 30 March each year, an Annual Environmental Report for that annual period for the conditions listed in Table 8, and which provides information in accordance with the corresponding requirement set out in Table 8.

Table 8: Annual Environmental Report

Condition	Requirement
12	<ul style="list-style-type: none"> (a) Cumulative monthly volumes of water or tailings discharged and discharge location per year (b) Laboratory data sheets for WWTP treated effluent for quarterly monitoring (c) Quarterly quantitative dust deposition results (d) Tabulated data summary of monitoring results (e) An interpretation of monitoring data results including comparison to historical trends.
13	Tabulated groundwater monitoring data results and time series graphs for each monitoring well over a 4 year period.
14	<ul style="list-style-type: none"> (a) Water balance monitoring data (b) An interpretation of monitoring data results including comparison to historical trends.
15	A summary of depositional dust monitoring activities, including details of any exceedances, data review and trends.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below.

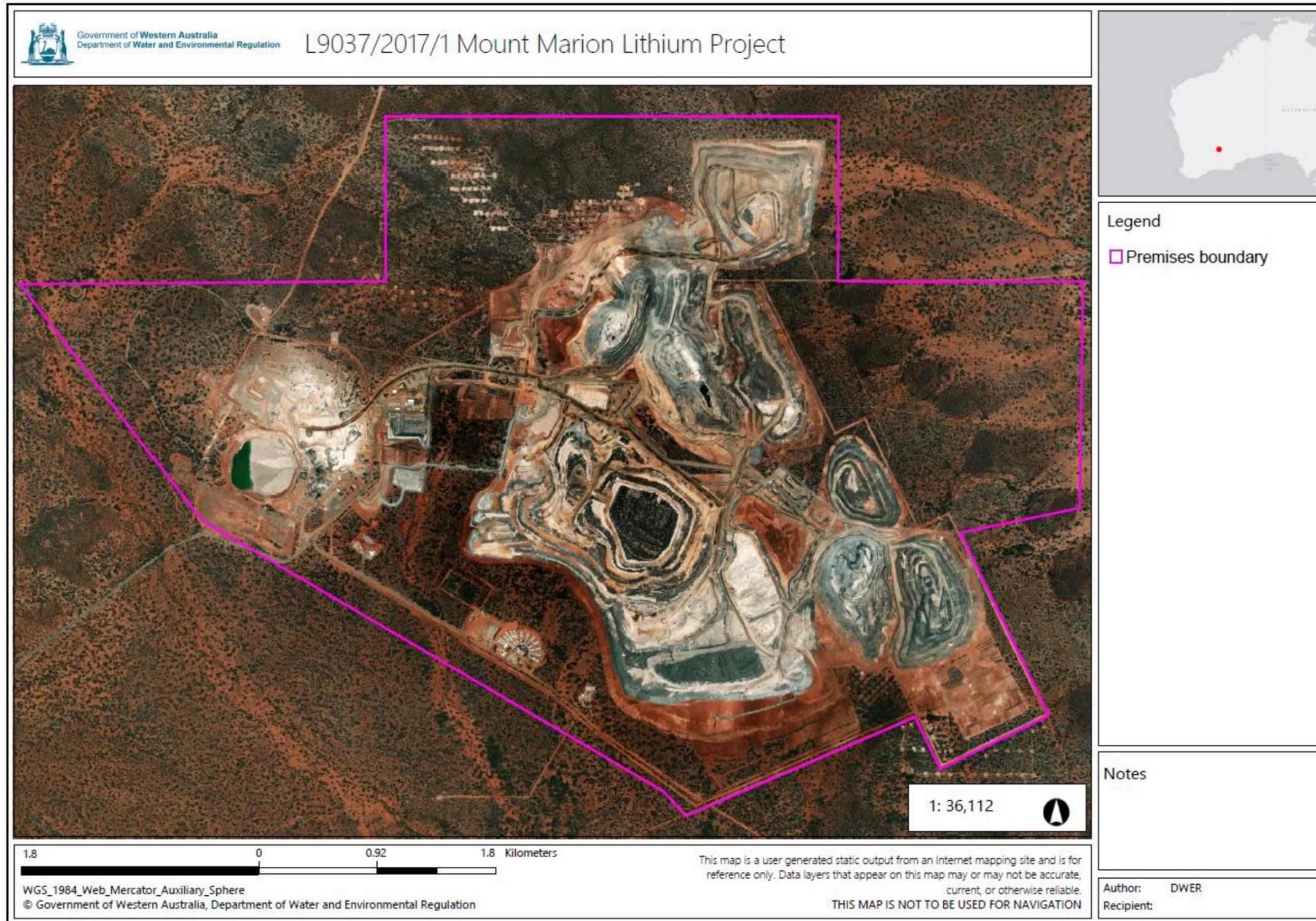


Figure 1: Map of the boundary of the prescribed premises and site layout

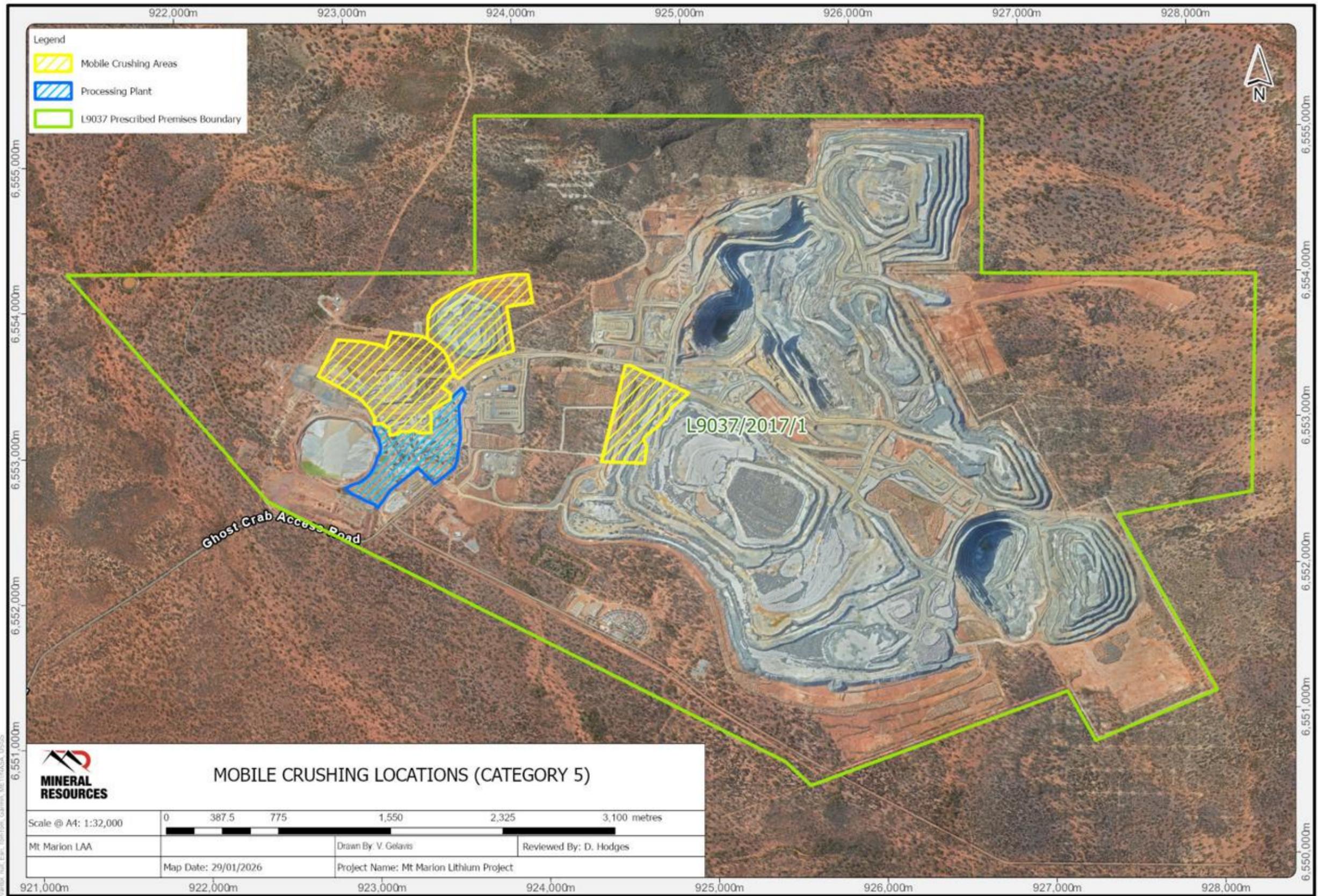


Figure 2: Category 5 Mobile crushing and ore sorting locations including expansion under amendment

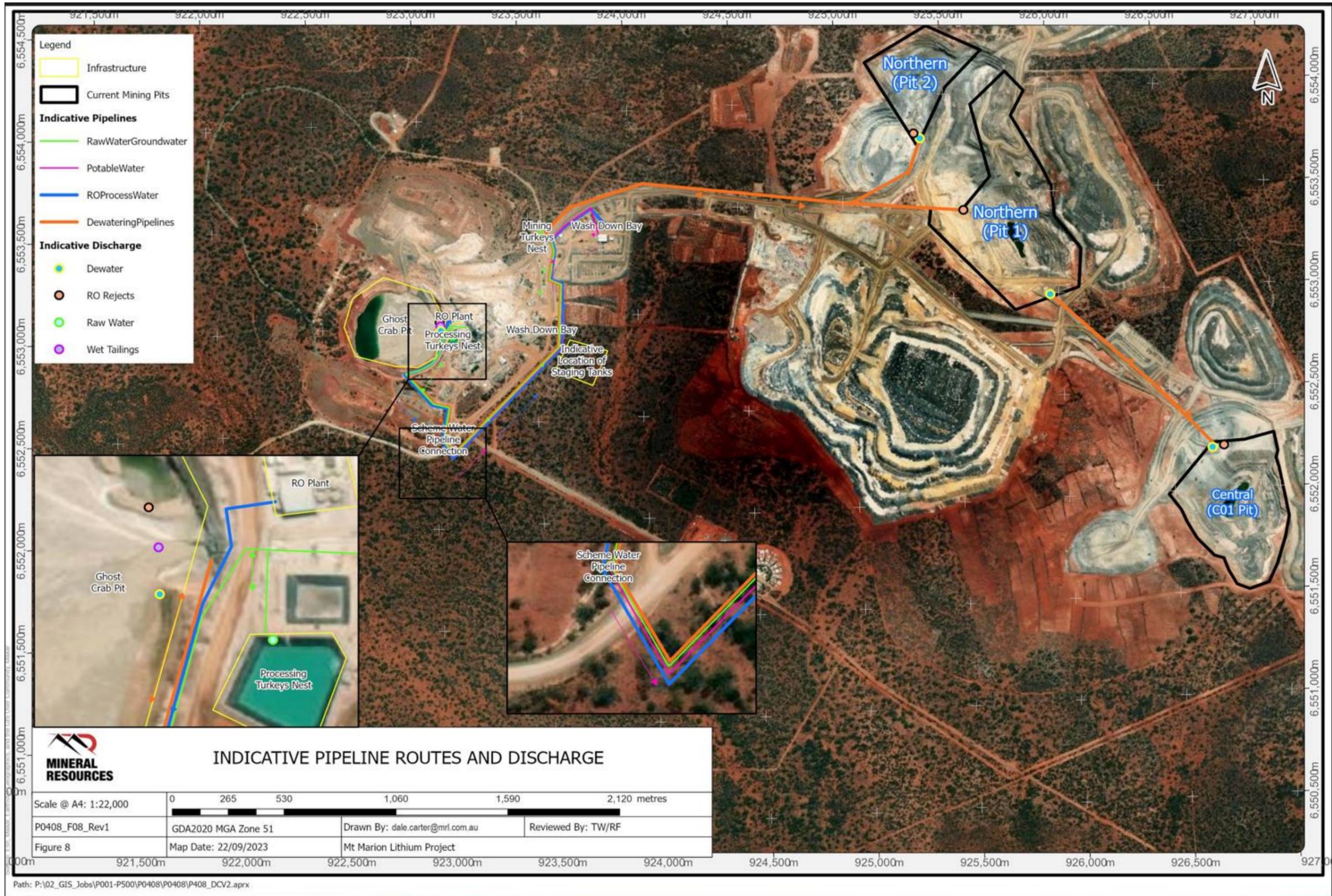


Figure 3: Pipeline routes and discharge points

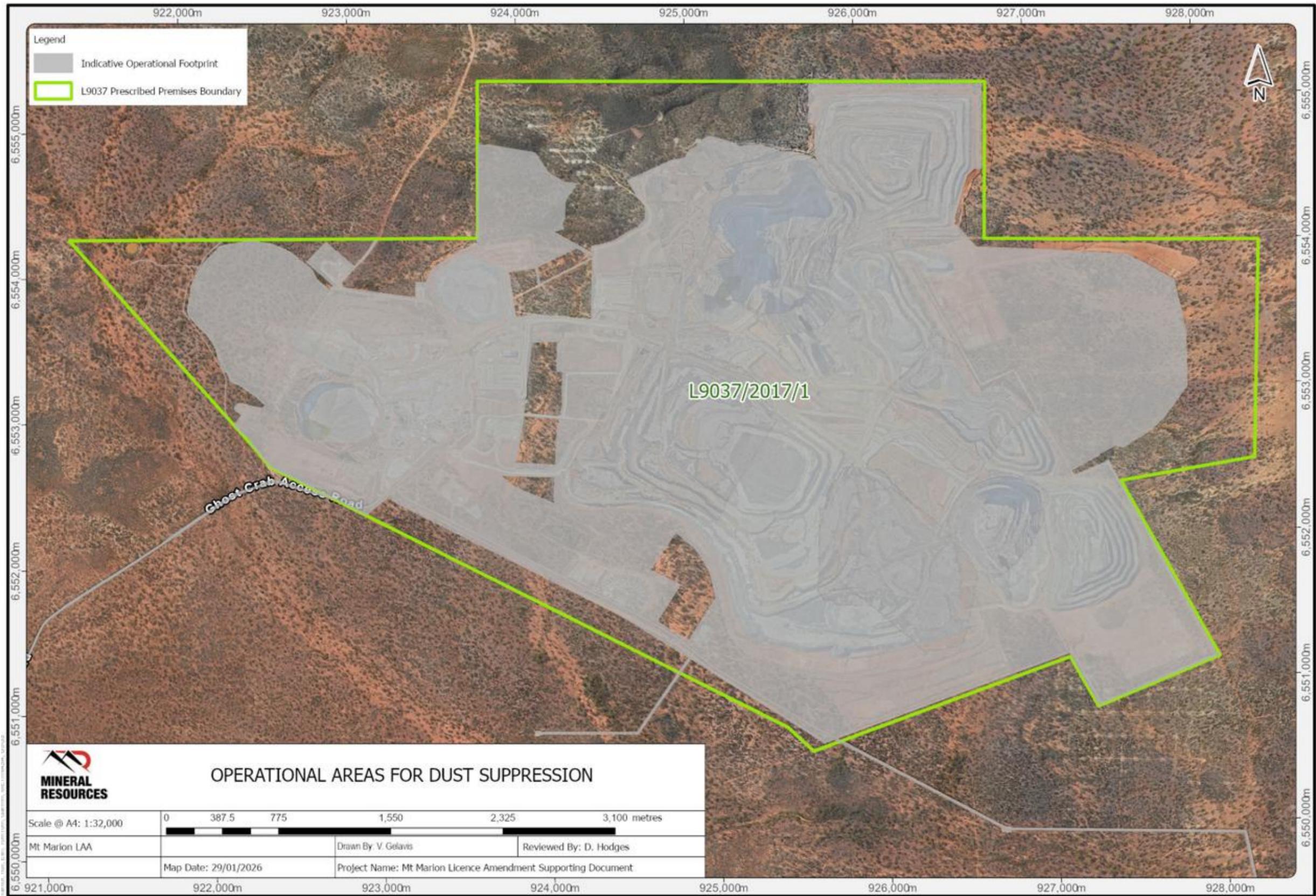


Figure 4: Area of operations and mining where dust suppression using dewatering and groundwater may be applied.

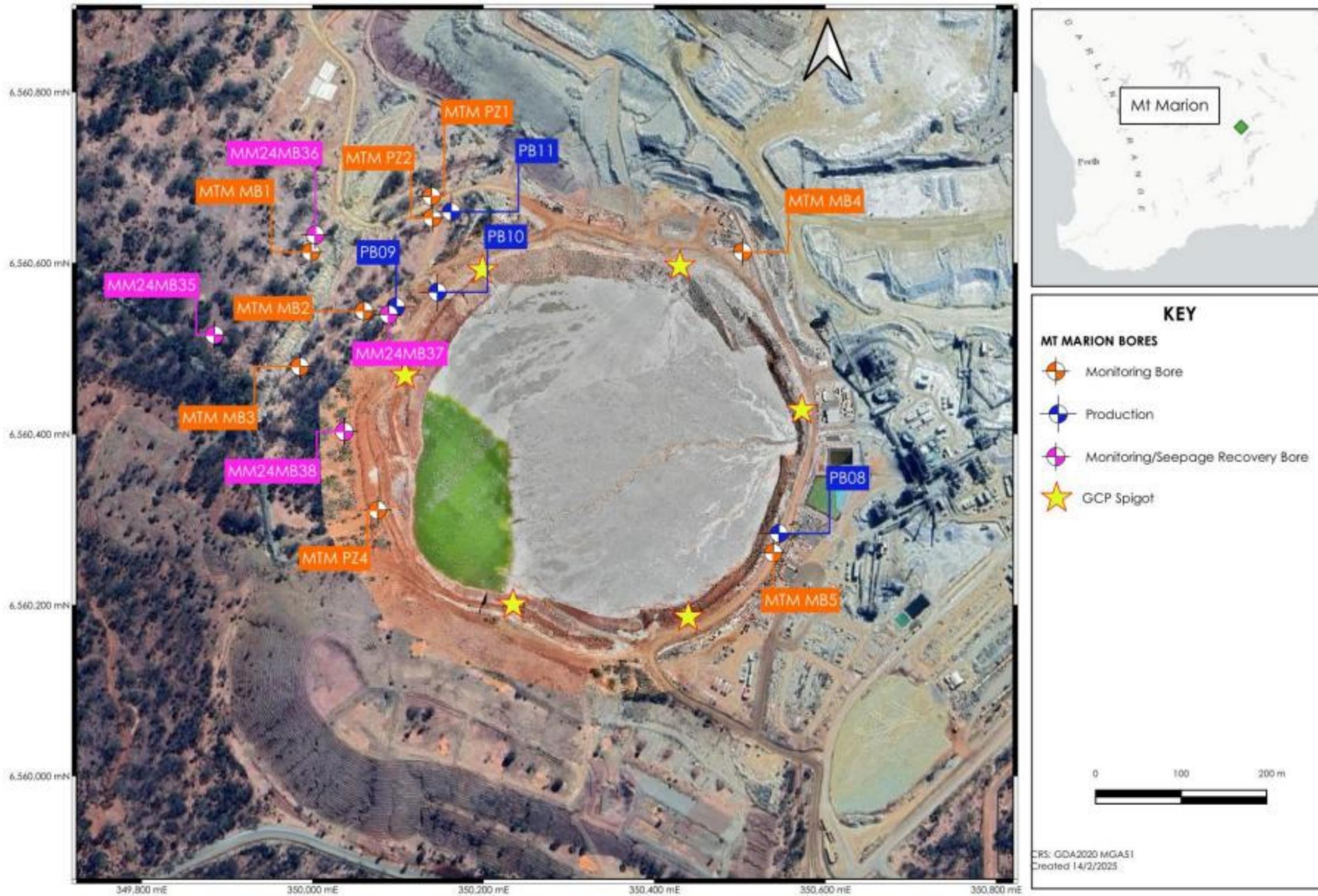


Figure 5: Monitoring bores and nominal tailings spigot locations

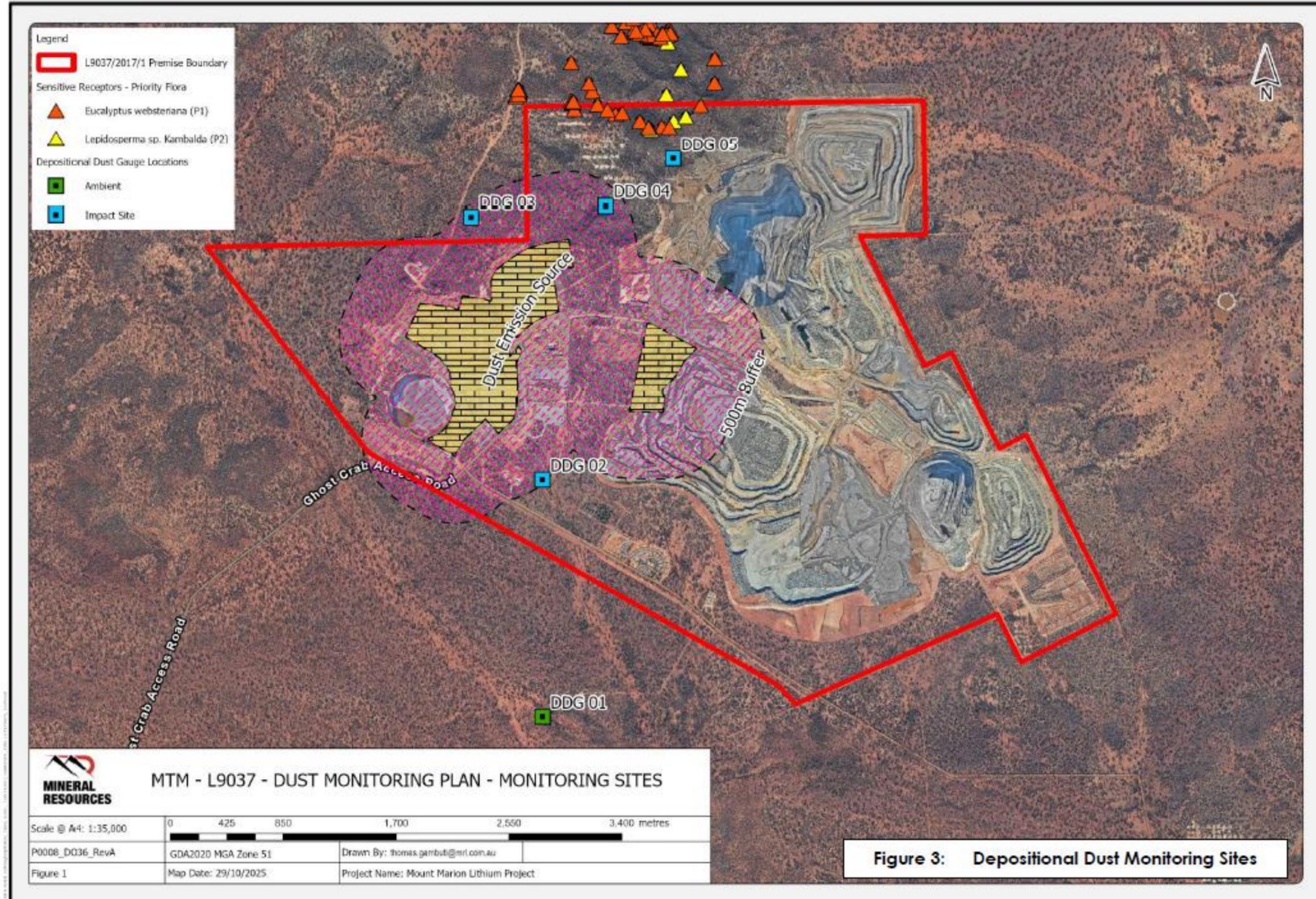


Figure 6: Dust monitoring sites

Schedule 2: Crushing and Screening Dust Management



Mount Marion Lithium Project – October 2025 – Dust Monitoring Plan – L9037 – Condition 15

2. METHODOLOGY

Within a month following the acceptance of this plan, the dust monitoring program will be implemented, as detailed in the following sections.

- Section 2.1: Depositional Dust
 - 2.1.1 – Equipment and Installation Specifications
 - 2.1.2 – Maintenance, Calibration, and Sample Analysis Requirements
 - 2.1.3 – Locations and Site Selection Considerations
- Section 2.2: Qualitative Depositional Dust Assessment.
 - 2.2.1 – Rating Scale
- Results from the monitoring will be reviewed in accordance with Section 4, and against the Trigger Action Response Plan detailed in Section 3.

2.1 DEPOSITIONAL DUST

2.1.1 Equipment and Installation Specifications

Dust deposition gauges provide a cheap and effective means of determining depositional dust loads. AS/NZS 3580.10.1:2016 details engineering requirements for manufacturing dust deposition gauges.

A summary of these requirements is provided below and are illustrated in Figure 1a and Figure 1b.

- Depositional gauge glass cone is 150 mm ± 10 mm diameter with nominal angle of cone sides at 60°, with stem sufficient dimensions to permit passage of particulate matter during washing.
- Funnel is supported firmly in the neck of a wide mouth glass collection bottle by a rubber or plastic stopper with a groove or outlet pipe to allow water overflow under excessive rainfall conditions.
- The rubber or plastic stopper must be constructed of a non-reactive, non-friable, material.
- The glass collection bottle must be a minimum 4 L capacity.
- The capacity of the bottle must be sized after considering the meteorological conditions of the area and the period of monitoring.
- The stand must be constructed to support the depositional gauge ensuring the horizontal plane of the funnel is situated at a height of 2.0 ± 0.2 m above ground level and must be secured to ensure stability.
- The upper section of the stand is typically constructed as a container with a small drainage hole to protect the collection bottle from the elements.



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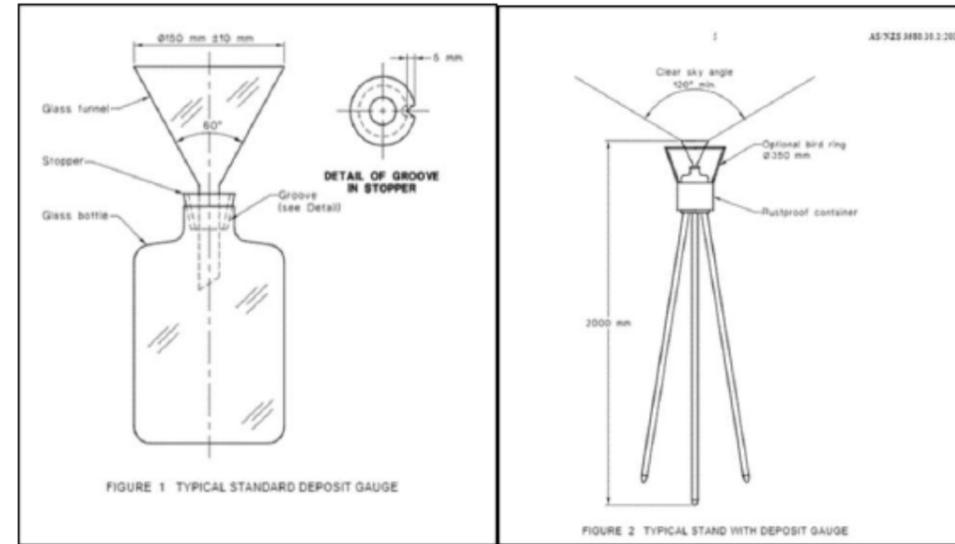


Figure 1a – Typical Standard Depositional Gauge (AS/NZS 3580.10.1.2016) Figure 1b: Typical Stand with Depositional Gauge (AS/NZS 3580.10.1.2016)

2.1.2 Maintenance, Calibration, and Sample Analysis Requirements

This particular equipment does not require calibration, the dust bottles are to be sourced from a single source supplier (to ensure consistency in the equipment supplied) that is able to provide depositional dust monitoring equipment that complies with AS/NZS 3580.

All sample analysis is to occur at a laboratory that is NATA Accredited for the specific analysis being conducted. At a minimum, samples will be analysed to derive deposited dust by determining the “mass deposition rate of ash, in grams per square metre per month” (Sa).



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2.1.3 Locations and Site Selection Considerations

A total of 4 'impact' sites and 1 ambient or 'control' site will be monitored for the duration of this program.

Table 1 - DDG Sample Point Details

SAMPLE POINT ID	SITE TYPE	GDA 2020 – MGA Zone 51J	
		EASTING	NORTHING
MTM_DD_G_001	AMBIENT	351243	6558047
MTM_DD_G_002	IMPACT	351243	6559820
MTM_DD_G_003	IMPACT	350706	6561782
MTM_DD_G_004	IMPACT	351719	6561863
MTM_DD_G_005	IMPACT	352228	6562216

The specific locations have been selected based on the proximity to the priority flora and probable source of material dust emissions, guided by the prevailing 9am and 3pm annual wind rose data as made available by the Bureau of Meteorology for the Kalgoorlie-Boulder weather station (Site Number: 012038) – See Figure 2.

2.2 QUALITATIVE DEPOSITIONAL DUST ASSESSMENT

A qualitative rating scale for dust deposition on vegetation has been developed to assist in the monitoring for potential impacts. This is based on the ratings scales used in various Ministerial Statements (i.e. Ministerial Statements: 808 – Spotted Quoll Open Pit Nickel Mine, and 1054 – Yilgarn Operations, Koolyanobbing Range F Deposit), which present monitoring approaches for evaluating depositional dust impacts on Threatened flora.

The qualitative assessment will involve the assessment of flora adjacent to the monitoring locations (as detailed in Figure 3 the rating scale described in Section 2.2.1. The results of which will be numerically presented and analysed in annual reporting.

2.2.1 Rating Scale

Table 2 - Qualitative Depositional Dust Assessment Rating Scale

Deposition Rating	Dust Deposition Descriptor	Definition
1	Negligible	<ul style="list-style-type: none"> No dust obviously visible on plant. Virtually no cloud of dust when plant is shaken. No trace of dust when rubbing plant.
2	Low	<ul style="list-style-type: none"> Thin layer of dust apparent on leaves / stems. Dust may or may not come off when plant is shaken. Only very small amount of dust can be rubbed off. Amount of dust too little to be noticeable between fingers.
3	Moderate	<ul style="list-style-type: none"> Plant obviously covered in dust but natural leaf colour plainly visible. Dust falls off in a thin cloud when plant is shaken. Dust can be rubbed off plant. Grit/powder noticeable between fingers, smears thin when wet.
4	High	<ul style="list-style-type: none"> Plant covered in dust, but natural leaf colour is faintly visible through dust layer. Dust falls off in a cloud when plant is shaken. Dust can be rubbed off plant. Grit/powder noticeable between fingers, smear opaque when wet.
5	Extreme	<ul style="list-style-type: none"> Dust is caking the plant thickly, leaf/stems take on colour of dust. Dust falls off in aggregate clumps or a thick cloud when plant is shaken. Dust can be rubbed off leaves or stems Abundant grit/powder noticeable between fingers, smears clayey when wet.

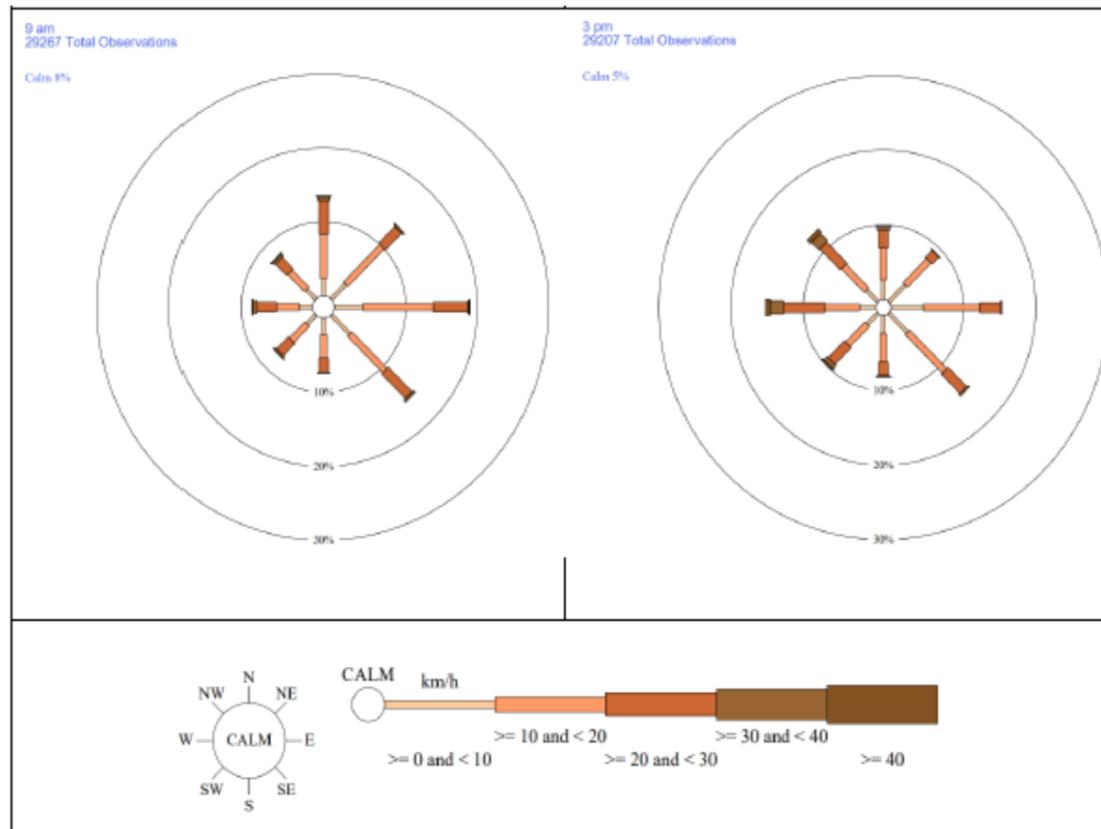


Figure 2 - Kalgoorlie-Boulder Windrose Data (Site ID: 012038) - 9am | 3pm – Wind Direction vs Wind Speed (km/hr) – 22 March 1939 to 31 July 2019



Mount Marion Lithium Project – October 2025 – Dust Monitoring Plan – L9037 – Condition 15

3. TRIGGER ACTION RESPONSE PLAN (TARP)

Where the following trigger criteria are exceeded at any point during the 18-month duration of the monitoring, the licence holder will engage with DWER on appropriate management actions:

- i. Dust deposition at any DDG monitoring site exceeds 40 g/m²/month (Sa₄) in any monitoring period.
- ii. Visual assessment of dust on foliage is above dust deposition rating 3 – Moderate from rating scale at the specified monitoring points (Table 1).

A trigger of “(Sa₁) < 40g/m²/month AND, > 2 S.D from the observed mean” is proposed to ensure that material deviation from previous data trends is identified prior to impacts to priority flora being realised.

Where this trigger is exceeded, the site will undertake a review of the existing dust management controls and assess their efficacy, seeking to identify where the appropriate changes need to be made to ensure that the risk of impact is mitigated against. This will be undertaken prior to the next sampling event.

Table 3 - Specified Action (L9037, Condition 15) – Mount Marion Dust Monitoring Trigger Action Response Plan (TARP)

TARP Level	Depositional Dust	Qualitative Assessment	Response
Level 1 - Normal	<ul style="list-style-type: none"> • (Sa₁) < 40g/m²/month at any Sample Sites¹, AND, • < 2 STD deviations from the observed baseline² for Sa³ 	<ul style="list-style-type: none"> • Qualitative Rating⁴ at Impact Sites is equal to or less than the Ambient Site for the same monitoring period AND, • Qualitative Rating ‘Low’ OR ‘Negligible’. 	<ul style="list-style-type: none"> • Continue to monitor as per this plan.
Level 2 – Trigger	<ul style="list-style-type: none"> • (Sa) is > 2 STD deviations from the observed baseline at any Impact Site¹, WHERE, • (Sa) < 40g/m²/month at any Impact Site², 	<ul style="list-style-type: none"> • Qualitative Rating⁴ at Impact Sites is greater than the Ambient Site for the same monitoring period AND, • Qualitative Rating at all Impact Sites remains below ‘Moderate’ 	<ul style="list-style-type: none"> • Review potential causal factors • Assess the attributability of the observations to project activities, • Assess the need for additional monitoring locations, and • Collate (where applicable) practicable additional mitigations to be considered for implementation prior to following monitoring event.
Level 3 - Threshold	<ul style="list-style-type: none"> • (Sa) > 40g/m²/month at an Impact Site at any monitoring event. 	<ul style="list-style-type: none"> • Qualitative Rating ‘Moderate’ OR greater at an Impact Site at any monitoring event. 	<ul style="list-style-type: none"> • Notify DWER – within 48 hours of confirmation of Threshold exceedance, and • Engage Subject Matter Experts (external and/or internal) within 5 business day to address dust mitigation shortfalls.

¹As detailed in Section 2.1.3 - Table 1 – DDG Sample Point Details

²The median of the first 4 sampling events (Sa) at the Ambient Site will constitute the “observed baseline”.

³Sa = mass deposition rate of ash, in grams per square metre per month.

⁴As detailed in Section 2.2.1 – Table 2 – Qualitative Depositional Dust Assessment



Mount Marion Lithium Project – October 2025 – Dust Monitoring Plan – L9037 – Condition 15

4. REVIEW, ANALYSIS, AND REPORTING

4.1 REVIEW AND ANALYSIS

Data will be assessed against the TARP criteria on an ongoing basis, with any emerging trends communicated to the Site Management team for consideration in operational planning activities.

4.2 REPORTING REQUIREMENTS

Recorded data, associated analysis, will be reported in accordance with L9037/2017/1, Table 8: Annual Environmental Report.

In addition to the provision of monitoring results, the Mount Marion Project will also provide the qualitative assessment data as detailed in Section 2.2 and commentary regarding any Early Warning Criteria reviews that have occurred throughout the annual period.

4.3 ADAPTIVE MANAGEMENT

Monitoring will be undertaken using an adaptive management approach, allowing monitoring locations and methodology, frequency, and mitigation measures to be adjusted in response to monitoring results, site conditions, and evolving knowledge. Any potential changes will be made whilst maintaining compliance with the minimum prescribed requirements as detailed L9037/2017/2, Condition 15. This flexibility ensures potential impacts to the identified sensitive receptors from dust emissions are managed effectively.