Permit

Environmental Protection Act 1994

Environmental authority EPPR01646013

This environmental authority is issued by the administering authority under Chapter 5 of the Environmental Protection Act 1994.

Environmental authority number: EPPR01646013

Environmental authority takes effect on day the authority is issued.

The anniversary date of this environmental authority is 23 October each year. The payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name(s)	Registered address
Andrew Flynn	77 Morganbury Road WALKAMIN QLD 4872

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	1/LD117
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	1/LD117
ERA 16 - Extraction and Screening - 3(b) - Screening, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/WNG7
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	1/WNG7
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	14/DG187

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Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	14/DG187
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	2/SP282807
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	2/SP282807
ERA 16 - Extraction and Screening - 3(b) - Screening, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	2/WNG7
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	2/WNG7
ERA 16 - Extraction and Screening - 3(b) - Screening, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	4/BW18
ERA 16 - Extraction and Screening - 2(b) - Extracting, other than by dredging, in a year, the following quantity of material - more than 100,000t but not more than 1,000,000t	4/BW18
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	7/SP282807
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	7/SP282807
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	8/SP282807
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	8/SP282807

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening - 2(a) - Extracting, other than by dredging, in a year, the following quantity of material - 5,000t to 100,000t	9/SP282807
ERA 16 - Extraction and Screening - 3(a) - Screening, in a year, the following quantity of material - 5,000t to 100,000t	9/SP282807

Additional information for applicants

Environmentally relevant activities

The description of any environmentally relevant activity (ERA) for which an environmental authority (EA) is issued is a restatement of the ERA as defined by legislation at the time the EA is issued. Where there is any inconsistency between that description of an ERA and the conditions stated by an EA as to the scale, intensity or manner of carrying out an ERA, the conditions prevail to the extent of the inconsistency.

An EA authorises the carrying out of an ERA and does not authorise any environmental harm unless a condition stated by the EA specifically authorises environmental harm.

A person carrying out an ERA must also be a registered suitable operator under the *Environmental Protection Act 1994* (EP Act).

Contaminated land

It is a requirement of the EP Act that an owner or occupier of contaminated land give written notice to the administering authority if they become aware of the following:

- the happening of an event involving a hazardous contaminant on the contaminated land (notice must be given within 24 hours); or
- a change in the condition of the contaminated land (notice must be given within 24 hours); or
- a notifiable activity (as defined in Schedule 3) having been carried out, or is being carried out, on the contaminated land (notice must be given within 20 business days)

that is causing, or is reasonably likely to cause, serious or material environmental harm.

For further information, including the form for giving written notice, refer to the Queensland Government website www.qld.gov.au, using the search term ‘duty to notify’.

Take effect

Please note that, in accordance with section 200 of the EP Act, an EA has effect:

a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority - on the nominated day; or

b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or

c) otherwise on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State*

Development and Public Works Organisation Act 1971), this EA will not take effect until the additional authorisation has taken effect.

If this EA takes effect when the additional authorisation takes effect, you must provide the administering authority written notice within 5 business days of receiving notification of the related additional authorisation taking effect.

If you have incorrectly claimed that an additional authorisation is not required, carrying out the ERA without the additional authorisation is not legal and could result in your prosecution for providing false or misleading information or operating without a valid environmental authority.



Signature

1 February 2023

Date

Melanie David
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
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Privacy statement

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at www.qld.gov.au. For queries about privacy matters please email privacy@des.qld.gov.au or telephone 13 74 68.

Obligations under the *Environmental Protection Act 1994*

In addition to the requirements found in the conditions of this environmental authority, the holder must also meet their obligations under the EP Act, and the regulations made under the EP Act. For example, the holder must comply with the following provisions of the Act:

- general environmental duty (section 319)
- duty to notify environmental harm (section 320-320G)
- offence of causing serious or material environmental harm (sections 437-439)
- offence of causing environmental nuisance (section 440)
- offence of depositing prescribed water contaminants in waters and related matters (section 440ZG)
- offence to place contaminant where environmental harm or nuisance may be caused (section 443)

Conditions of environmental authority

The environmentally relevant activities conducted at the locations as described below must be conducted in accordance with the following site specific conditions of approval.

Part Number	Applicable Location	Environmentally Relevant Activity
Part 1	**Marathon Quarry** Marathon Station, HUGHENDEN QLD 4821 - Lot 14 Plan DG187	ERA 16(2a) Extractive and screening activities - extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16(3a) Extractive and screening activities - screening, in a year, the following quantity of material— 5,000t to 100,000t.
Part 2	**Nolans Crossing Quarry** Burke Development Road, ROOKWOOD QLD 4871 - Lot 4 on Plan BW18	ERA 16(2b) Extractive and screening activities - extracting, other than by dredging, in a year, the following quantity of material – more than 100,000t but not more than 1,000,000t. ERA 16(3b) Extractive and screening activities - screening, in a year, the following quantity of material – more than 100,000t but not more than 1,000,000t.
Part 3	**Gingerella Quarry** Gingerella – Fossilbrook Road, BARWIDGI QLD 4872 - Lot 1 on Plan LD117	ERA 16(2a) Extractive and screening activities - extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16(3a) Extractive and screening activities - screening, in a year, the following quantity of material— 5,000t to 100,000t.
Part 4	**Warwombie Station Quarry** Kennedy Developmental Road, HUGHENDEN QLD 4821 - Lots 1 and 2 on Plan WNG7	ERA 16(2b) Extractive and screening activities - extracting, other than by dredging, in a year, the following quantity of material – more than 100,000t but not more than 1,000,000t. ERA 16(3b) Extractive and screening activities - screening, in a year, the following quantity of material – more than 100,000t but not more than 1,000,000t.
Part 5	**Gainsford Quarry** Gregory Developmental Road, BASALT QLD 4820 – Lots 2, 7 and 8 on Plan SP282807	ERA 16(2a) Extractive and screening activities - extracting, other than by dredging, in a year, the following quantity of material— 5,000t to 100,000t. ERA 16(3a) Extractive and screening activities - screening, in a year, the following quantity of material— 5,000t to 100,000t.

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Part 1 – Conditions relating to Marathon Quarry

Agency interest: General	
Condition number	**Condition**
P1-G1	The proposed Environmentally Relevant Activity (ERA) must comply with the approved supply zone map attached as *Appendix 1 – Marathon Quarry Site Plan*, except as otherwise specified by any condition of this permit.
P1-G2	In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.
P1-G3	The operator of an ERA to which this approval relates must: a) Install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; b) Maintain such measures, plant and equipment in a proper and efficient condition; and c) Operate such measures, plant and equipment in a proper and efficient manner.
P1-G4	From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out. The SBMP must address the following matters: a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; b) Identification of environmental issues and potential impacts; c) Control measures for routine operations to minimise likelihood of environmental harm; d) Contingency plans and emergency procedures for non-routine situations; e) Organisational structure and responsibility; f) Effective communication; g) Monitoring of contaminant releases; h) Conducting environmental impact assessments; i) Staff training; j) Record keeping; and k) Periodic review of environmental performance and continual improvement.
P1-G5	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
P1-G6	A competent person(s) must conduct any monitoring required by this approval.

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P1-G7	All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be calibrated and appropriately operated and maintained.
P1-G8	An appropriate spill kit, personal protective equipment and relevant operator instructions/ emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site, and in each vehicle used if the activity is a mobile ERA.
P1-G9	Anyone operating under this approval must be trained in the use of a spill kit.
P1-G10	Telephone the administering authorities pollution hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.
P1-G11	A written notice detailing the following information must be provided to the administering authority within 14 days of any advice provided in accordance with condition P1-G10: a) The name of the operator, including their approval/ registration certificate number; b) The name and telephone number of a designated contact person; c) Quantity and substance released; d) Vehicle and registration details; e) Person/s involved (driver and any others); f) The location and time of the release; g) The suspected cause of the release; h) A description of the effects of the release; i) The results of any sampling performed in relation to the release; j) Actions taken to mitigate any environmental harm caused by the release; and k) Proposed actions to prevent a recurrence of the release.
P1-G12	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
P1-G13	All records required by this approval must be kept for 5 years.
Agency interest: Air	
Condition number	**Condition**
P1-A1	The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.
P1-A2	Stockpiles must be maintained using all reasonable and practicable measures necessary to minimise the release of windblown dust or particulate matter to the atmosphere. Reasonable and practicable measures may include but are not limited to: a) Use of water spray as required during winds likely to generate such releases;

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	b) Use of dust-suppressant shielding; c) Storage in bunkers; and d) Covering with tarpaulins.
P1-A3	Trafficable areas must be maintained using all reasonable and practicable measures necessary to minimise the release of windblown dust or traffic generated dust to the atmosphere. Reasonable and practicable measures may also include but are not limited to: a) Keeping surfaces clean; b) Sealing with bitumen or other suitable material; c) Using water sprays; d) Adopting and adhering to speed limits; and e) Using dust suppressants and wind breaks.
P1-A4	The tailgates of all trucks leaving the premises to which this approval relates must be securely fixed prior to loading to prevent loss of material.
P1-A5	The holder of this approval must take all reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter or windblown dust from trucks used for transporting extracted material from the premises to which this approval relates. The entire load must be covered with a tarpaulin or similar material for the duration of transport Other reasonable and practicable measures may include but are not limited to: a) Wetting down the load prior to transport; and b) Clearing of spillage from side rails, tailgates and draw bars of trucks prior to departure from the premises to which this approval relates and prior to departure from the premises to which this approval relates to which the load has been delivered.
P1-A6	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.
P1-A7	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: a) For a complaint alleging dust nuisance, dust deposition; and b) For a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Land	
Condition number	**Condition**

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P1-L1	Where required (ie. for extractive activities) the topsoil must be: a) Removed from the activity site prior to the commencement of the activity; b) Stockpiled uncompacted to not more than 1.5m high and in a manner that will preserve its biological and chemical integrity; and c) Used for rehabilitation of the activity site (refer to condition P1-L2).
P1-L2	The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that: a) Suitable native species of vegetation are planted and established; b) Potential for erosion of the site is minimised; c) The quality of stormwater, other water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium and total manganese are not likely to cause environmental harm; d) The likelihood of environmental nuisance being caused by release of dust is minimised; e) The water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm; f) The final landform is stable and not subject to slumping; and g) Any actual and potential acid sulfate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.
P1-L3	Rehabilitation of disturbed areas must take place progressively as works are staged and new area of extraction are commenced.
P1-L4	Contaminants must not be released to land.
P1-L5	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. *NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.*
Agency interest: Noise	
Condition number	**Condition**
P1-N1	Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
P1-N2	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) Airblast overpressure (dB (Lin) Peak); b) LA 10, adj, 10 mins; c) LA 1, adj, 10 mins; d) The level and frequency of occurrence of impulsive or tonal noise;

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	e) Atmospheric conditions including wind speed and direction; f) Effects due to extraneous factors such as traffic noise; and g) Location, date and time of recording.
P1-N3	Blasting is only permitted during the hours of 8am to 5pm, Monday to Friday, and from 9am to 1pm on Saturdays. Blasting must not occur on Sundays and public holidays.
P1-N4	Blasting outside the authorised times must be approved by the administering authority.
P1-N5	Noise from blasting operations when measured at any noise sensitive or commercial place must not exceed: a) An airblast overpressure of more than 115dB (Lin) peak for 9 out of any 10 consecutive blasts; and b) 120dB (Lin) peak for any single blast.
P1-N6	Ground vibration from blasting operations when measured at any noise sensitive or commercial place must not exceed: a) A peak particle velocity of 5mm per second for 9 out of any 10 consecutive blasts; and b) A peak particle velocity of 10mm per second for any single blast.
P1-N7	When requested by the administering authority, blasting noise and vibration monitoring and recording must be undertaken to investigate any complaint of blasting noise and vibration nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) Peak particle velocity (mm/s^{-1}); b) Airblast overpressure level dB (Lin) peak; c) Maximum instantaneous charge (MC) in kg; d) The level and frequency of occurrence of impulsive or tonal noise; e) Location of the blast/s within the site (including which bench level); f) Distance(s) from the blast site to any nuisance sensitive or commercial place; g) Atmospheric conditions including temperature, relative humidity and wind speed and direction; h) Effects due to extraneous factors; and i) Location, date and time of recording.
P1-N8	Vibration emitted from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
Agency interest: Social	
Condition number	**Condition**
P1-S1	The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request: a) Time, date, name and contact details of the complainant; b) Reasons for the complaint;

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	c) Any investigations undertaken; d) Conclusions formed; and e) Any actions taken.
Agency interest: Waste	
Condition number	**Condition**
P1-W1	No waste may be burned on the site or be removed and burned elsewhere.
P1-W2	All waste generated must be lawfully transported and disposed of to a facility which can lawfully accept such waste.
P1-W3	A record of all waste must be kept detailing the following information: a) Date of pickup of waste; b) Description of waste; c) Quantity of waste; d) Origin of the waste; and e) Destination of the waste. Note: trackable wastes as listed in schedule 1 of the Environmental Protection (Waste Management) Regulation 2000 are not covered by this condition. Trackable wastes have similar recording requirements to this condition in accordance with a waste tracking system established under the above Regulation.
Agency interest: Water	
Condition number	**Condition**
P1-WA1	There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.
P2-WA2	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.

Part 2 – Conditions relating to Nolans Creek Quarry

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Agency interest: General	
Condition number	**Condition**
P2-G1	In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.
P2-G2	From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out. The SBMP must address the following matters: a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; b) Identification of environmental issues and potential impacts; c) Control measures for routine operations to minimise likelihood of environmental harm; d) Contingency plans and emergency procedures for non-routine situations; e) Organisational structure and responsibility; f) Effective communication; g) Monitoring of contaminant releases; h) Conducting environmental impact assessments; i) Staff training; j) Record keeping; and k) Periodic review of environmental performance and continual improvement.
P2-G3	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
P2-G4	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
P2-G5	A record of all waste, including trackable wastes, must be kept detailing the following information: a) Date of pickup of waste; b) Description of waste; c) Quantity of waste; d) Origin of the waste; and e) Destination of the waste.
P2-G6	All records required by this approval must be kept for 5 years.

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P2-G7	A financial assurance, based on at least three quotes from an appropriately qualified third-party for the full rehabilitation and remediation of the site, must be provided to the administering authority within 30 days from date of this approval.
Agency interest: Air	
Condition number	**Condition**
P2-A1	Dust and particulate matter must not exceed a dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions), when measured at any nuisance sensitive or commercial place.
P2-A2	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.
P2-A3	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: a) For a complaint alleging dust nuisance, dust deposition; and b) For a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
P2-A4	The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.
Agency interest: Water	
Condition number	**Condition**
P2-WT1	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
P2-WT2	The size of any sedimentation dam must be sufficient to contain the run-off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years.
P2-WT3	A conceptual Erosion and Sediment Control Plan in accordance with the Queensland Institute of Engineers Guideline must be prepared and implemented within 30 days from date of this approval for all land disturbances associated with the extractive industry.

P2-WT4	Contaminants must not be released from the site to any waters or the bed and banks of any waters.
P2-WT5	There must be no release of stormwater runoff that has been in contact with any contaminants at the site to any waters, roadside gutter or stormwater drain.

Agency interest: Noise

Condition number	**Condition**
P2-N1	Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
P2-N2	All noise from activities must not exceed the levels specified in *Table 1 - Noise limits at any nuisance sensitive or commercial place.* **Table 1 - Noise limits at any nuisance sensitive or commercial place.**

Noise level dB(A) measured as	**Monday to Saturday**			**Sundays and public holidays**		
	7am - 6pm	6pm - 10pm	10pm - 7am	9am - 6pm	6pm - 10pm	10pm - 9am
	Noise measured at a 'Noise sensitive place'					
$L_{A10, adj, 10 mins}$	50	45	35	50	45	35
$L_{A1, adj, 10 mins}$	55	50	40	55	50	40
	Noise measured at a 'Commercial place'					
$L_{A10, adj, 10 mins}$	55	50	40	55	50	40
$L_{A1, adj, 10 mins}$	60	55	45	60	55	45

P2-N3	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) LA 10, adj, 10 mins; b) LA 1, adj, 10 mins; c) The level and frequency of occurrence of impulsive or tonal noise; d) Atmospheric conditions including wind speed and direction; e) Effects due to extraneous factors such as traffic noise; and f) Location, date and time of recording.
P2-N4	The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority's Noise Measurement Manual.

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P2-N5	Vibration from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
P2-N6	When requested by the administering authority, vibration monitoring and recording must be undertaken to investigate any complaint of vibration nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) Peak particle velocity (mm/s); b) Location of the blast/s within the site (including which bench level); c) Atmospheric conditions including temperature, relative humidity and wind speed and direction; d) The level and frequency of occurrence of impulsive or tonal noise; e) Atmospheric conditions including wind speed and direction; f) Effects due to extraneous factors; and g) Location, date and time of recording.
Agency interest: Social	
Condition number	**Condition**
P2-S1	The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request: a) Time, date, name and contact details of the complainant; b) Reasons for the complaint; c) Any investigations undertaken; d) Conclusions formed; and e) Any actions taken.
Agency interest: Land	
Condition number	**Condition**
P2-L1	The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that: a) Suitable native species of vegetation are planted and established; b) Potential for erosion of the site is minimised; c) The quality of stormwater, other water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium, and total manganese are not likely to cause environmental harm; d) The likelihood of environmental nuisance being caused by release of dust is minimised; e) The water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm; f) The final landform is stable and not subject to slumping; and

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	g) Any actual and potential acid sulfate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.
P2-L2	The extent of disturbance of the land must be kept to the minimum area required to conduct the activity. A total of 4 hectares (including the crushing and storing area) can be disturbed at any one time. Land must be rehabilitated progressively to ensure that a maximum of 4 hectares of disturbance occurs at any one time.
P2-L3	The area of disturbance for the extraction and screening activities must be within the boundaries outlined in *Appendix 2: Quarry Operations Plan.*
P2-L4	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
Agency interest: Waste	
Condition number	**Condition**
P2-W1	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.

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Part 3 – Conditions relating to Gingerella Quarry

Agency interest: General	
Condition number	**Condition**
P3-G1	Activities conducted under this environmental authority must not be conducted to any of the following limitations: 1. The activity conducted on Lot 1 on Plan LD117 is limited to Area A and Area B identified as quarry operational areas as per *site plan G003, version 4, dated 13/05/2017, entitled "Gingerella Quarry"*, as shown in Appendix 3; and 2. The extent of the land disturbance in Area B must not exceed 5.0 hectares at any one time.
P3-G2	In carrying out an ERA to which this approval relates, all reasonable and practicable measures must be taken to prevent and / or to minimise the likelihood of environmental harm being caused.
P3-G3	The operator of an ERA to which this approval relates must: a) Install all measures, plant and equipment necessary to ensure compliance with the conditions of this approval; b) Maintain such measures, plant and equipment in a proper and efficient condition; and c) Operate such measures, plant and equipment in a proper and efficient manner.
P3-G4	From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out. The SBMP must address the following matters: a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; b) Identification of environmental issues and potential impacts; c) Control measures for routine operations to minimise likelihood of environmental harm; d) Contingency plans and emergency procedures for non-routine situations; e) Organisational structure and responsibility; f) Effective communication; g) Monitoring of contaminant releases; h) Conducting environmental impact assessments; i) Staff training; j) Record keeping; and k) Periodic review of environmental performance and continual improvement.
P3-G5	The site based management plan must not be implemented or amended in a way that contravenes any condition of this approval.

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P3-G6	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
P3-G7	All records required by this approval must be kept for 5 years.
P3-G8	A record of all waste, including trackable wastes, must be kept detailing the following information: a) Date of pickup of waste; b) Description of waste; c) Quantity of waste; d) Origin of the waste; and e) Destination of the waste.
P3-G9	The latest edition of the administering authorities INSTRUCTIONS FOR THE TREATMENT AND MANAGEMENT OF ACID SULFATE SOILS, 2001, ('the Instructions') must be complied with when treating and managing acid sulfate soils.
P3-G10	Telephone the administering authorities Pollution Hotline or local office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval.
P3-G11	An appropriate spill kit, personal protective equipment and relevant operator instructions, emergency procedure guides for the management of wastes and chemicals associated with the ERA must be kept at the site.
P3-G12	Anyone operating under this approval must be trained in the use of the spill kit.
P3-G13	Acid sulfate soils must be managed such that contaminants are not directly or indirectly released to any waters.

Agency interest: Air	
Condition number	**Condition**
P3-A1	The release of noxious or offensive odours or any other noxious or offensive airborne contaminants resulting from the activity must not cause a nuisance at any nuisance sensitive or commercial place.
P3-A2	The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any nuisance sensitive or commercial place.

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P3-A3	Dust and particulate matter must not exceed the following levels when measured at any nuisance sensitive or commercial place: a) Dust deposition of 120 milligrams per square metre per day, when monitored in accordance with Australian Standard AS 3580.10.1 of 2003 (or more recent editions); OR b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic metre over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the site, when monitored in accordance with: ○ Australian Standard AS 3580.9.6 of 2003 (or more recent editions) 'Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet -Gravimetric method'; or ○ Any alternative method of monitoring PM10 which may be permitted by the 'Air Quality Sampling Manual' as published from time to time by the administering authority.
P3-A4	When requested by the administering authority, dust and particulate monitoring must be undertaken to investigate any complaint of environmental nuisance caused by dust and/or particulate matter, and the results notified within 14 days to the administering authority following completion of monitoring. Monitoring must be carried out at a place(s) relevant to the potentially affected dust sensitive place and at upwind control sites and must include: a) For a complaint alleging dust nuisance, dust deposition; and b) For a complaint alleging adverse health effects caused by dust, the concentration per cubic metre of particulate matter with an aerodynamic diameter of less than 10 micrometre (µm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Water	
Condition number	**Condition**
P3-WT1	Erosion and sediment control plan must be prepared in accordance with the IE Aust QLD ESC guidelines, with particular attention to be given to FNQ rainfall events and associated calculations for sizing of sediment dams and the plans are to be endorsed by a Certified Practitioner. Erosion protection measures and sediment control measures must be implemented and maintained to prevent erosion and the release of sediment. The size of any sedimentation dam must be sufficient to contain the run off expected from a 24 hour storm with an average recurrence interval of 1 in 5 years.
P3-WT2	Contaminated waters must not be released from the site to surface waters or the bed or banks of surface waters.
P3-WT3	A minimum buffer distance of 50m must be maintained between extraction areas and the high banks of any watercourse, lake or wetland.

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<table>
<tr><td>P3-WT4</td><td>Notwithstanding condition P3-G1, the activity must not cause environmental harm to the ephemeral stream that runs from the north – eastern corner of Area B towards Rocky Tate River, as identified in site plan G003, version 4, dated 13/05/2017, entitled “Gingerella Quarry” (Appendix 3).</td></tr>
<tr><td colspan="2">Agency interest: Noise</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P3-N1</td><td>Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.</td></tr>
<tr><td>P3-N2</td><td>All noise from activities must not exceed the levels specified in Table 1 - Noise limits at any nuisance sensitive or commercial place.
Table 1 - Noise limits at any nuisance sensitive or commercial place.
<table>
<tr><th rowspan="2">Noise level dB(A) measured as</th><th colspan="3">Monday to Saturday</th><th colspan="3">Sundays and public holidays</th></tr>
<tr><th>7am - 6pm</th><th>6pm - 10pm</th><th>10pm - 7am</th><th>9am - 6pm</th><th>6pm - 10pm</th><th>10pm - 9am</th></tr>
<tr><td></td><td colspan="6">Noise measured at a 'Noise sensitive place'</td></tr>
<tr><td>$L_{A10, adj, 10 mins}$</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td><td>Bkg + 5</td><td>Bkg + 5</td><td>Bkg + 0</td></tr>
<tr><td>$L_{A1, adj, 10 mins}$</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr>
<tr><td></td><td colspan="6">Noise measured at a 'Commercial place'</td></tr>
<tr><td>$L_{A10, adj, 10 mins}$</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td><td>Bkg + 10</td><td>Bkg + 10</td><td>Bkg + 5</td></tr>
<tr><td>$L_{A1, adj, 10 mins}$</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td><td>Bkg + 15</td><td>Bkg + 15</td><td>Bkg + 10</td></tr>
</table></td></tr>
<tr><td>P3-N3</td><td>When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance, and the results notified within 14 days to the administering authority. Monitoring must include:
c) LA 10, adj, 10 mins;
d) LA 1, adj, 10 mins;
e) The level and frequency of occurrence of impulsive or tonal noise;
f) Atmospheric conditions including wind speed and direction;
g) Effects due to extraneous factors such as traffic noise; and
h) Location, date and time of recording.</td></tr>
<tr><td>P3-N4</td><td>The method of measurement and reporting of noise levels must comply with the latest edition of the administering authority’s Noise Measurement Manual.</td></tr>
<tr><td>P3-N5</td><td>Vibration from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.</td></tr>
</table>

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P3-N6	When requested by the administering authority, vibration monitoring and recording must be undertaken to investigate any complaint of vibration nuisance, and the results notified within 14 days to the administering authority. Monitoring must include: a) Peak particle velocity (mm/s); b) Location of the blast/s within the site (including which bench level); c) Atmospheric conditions including temperature, relative humidity and wind speed and direction; d) The level and frequency of occurrence of impulsive or tonal noise; e) Atmospheric conditions including wind speed and direction; f) Effects due to extraneous factors; and g) Location, date and time of recording.
Agency interest: Social	
Condition number	**Condition**
P3-S1	The operator of the ERA must record the following details for all complaints received and provide this information to the administering authority on request: a) Time, date, name and contact details of the complainant; b) Reasons for the complaint; c) Any investigations undertaken; d) Conclusions formed; and e) Any actions taken.
Agency interest: Land	
Condition number	**Condition**
P3-L1	The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that: a) Suitable native species of vegetation are planted and established; b) Potential for erosion of the site is minimised; c) The quality of stormwater, other water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium, and total manganese are not likely to cause environmental harm; d) The likelihood of environmental nuisance being caused by release of dust is minimised; e) The water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm; f) The final landform is stable and not subject to slumping; and g) Any actual and potential acid sulfate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.

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P3-L2	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
P3-L3	Contaminants must not be released to land.
P3-L4	Spillage of all chemicals and fuels must be contained within an on-site containment system and controlled in a manner that prevents environmental harm. *NOTE: All petroleum product storage's must be designed, constructed and maintained in accordance with AS 1940 - Storage and Handling of Flammable and Combustible Liquids.*
Agency interest: Waste	
Condition number	**Condition**
P3-W1	All waste generated in carrying out the activity must be reused, recycled or removed to a facility that can lawfully accept the waste.

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Part 4 – Conditions relating to Warwombie Station Quarry

Agency interest: General	
Condition number	**Condition**
P4-G1	In carrying out an ERA to which this permit relates, all reasonable and practicable measures must be taken to prevent and/or to minimise the likelihood of environmental harm being caused.
P4-G2	Contaminants that may cause actual or potential environmental nuisance or environmental harm must not be released directly or indirectly to land, air or waters. As soon as a registered operator becomes aware of any release of contaminants that may cause actual or potential environmental harm, the release must be stopped, promptly rectified with the necessary equipment and remediation methods, and all reasonable actions taken to prevent a recurrence of the release.
P4-G3	Any release of contaminants must be reported by telephone to the administering authority's pollution hotline or area office. Any such release must be reported as soon as possible and no later than 24 hours after the registered operator becomes aware of the release.
P4-G4	A written notice detailing the following information must be provided to the administering authority within 7 days: a) The name of the registered operator, including their registration certificate number; b) The name and telephone number of a designated contact person; c) Quantity and substance released; d) Person/s involved; e) The location and time of the release; f) The suspected cause of the release; g) A description of the effects of the release; h) The results of any sampling performed in relation to the release; i) Actions taken to mitigate any environmental harm caused by the release; and j) Proposed actions.

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P4-G5	From commencement of an ERA to which this approval relates, a site based management plan (SBMP) must be implemented. The SBMP must identify all sources of environmental harm, including but not limited to the actual and potential release of all contaminants, the potential impact of these sources and what actions will be taken to prevent the likelihood of environmental harm being caused. The SBMP must also provide for the review and 'continual improvement' in the overall environmental performance of all ERAs that are carried out. The SBMP must address the following matters: a) Environmental commitments - a commitment by senior management to achieve specified and relevant environmental goals; b) The purpose and description of the activity, the type of machinery, method of extraction or screening, the location of infrastructure and site(s) of activity; c) A description of the site and surrounding environment including site dimensions the location of sensitive plates or areas of high ecological significance; d) Identification of environmental issues and potential environmental impacts; e) Control measures for routine operations to minimise the likelihood of causing environmental harm; f) Contingency plans and emergency procedures for non-routine situations organisational structure and responsibility; g) Organisational structure, responsibility and effective communications; h) Details of site environmental management training to be provided to staff and contractors at the commencement and during the course of the activity; i) Records that are kept and the methods for keeping those records; j) Provisions for continuous improvement and periodic review of environmental performance; k) Details of progressive and post activity rehabilitation of disturbed areas; l) Stormwater management plan; and m) Erosion and sediment control plan.
P4-G6	The SBMP must not be implemented or amended in a way that contravenes any condition of this approval.
P4-G7	An up to date copy of the SBMP must be kept at the approved place to which the plan relates and be available to the administering authority on request.
P4-G8	The registered operator must keep a register containing details of each activity site. This register must include: a) The GPS coordinates of each activity site (GDA94 datum); b) The date(s) on which the sites were accessed; c) The amount of material removed; and d) Where land has been significantly disturbed, the date(s) each activity site was assessed and what remediation or rehabilitation were proposed or carried out.
P4-G9	All records required to be kept must be kept for 5 years and be made available to the administering authority.

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<table>
<tr><th colspan="2">Agency interest: Air</th></tr>
<tr><th>Condition number</th><th>Condition</th></tr>
<tr><td>P4-A1</td><td>The release of noxious or offensive odours or any other airborne contaminant resulting from an ERA to which this development permit relates must not cause an environmental nuisance, or serious or material environmental harm.</td></tr>
<tr><td>P4-A2</td><td>Blasting operations at the authorised place are limited to the times specified in Table 1- Vibration limits at a nuisance sensitive place.
Table 1 – Vibration limits at a nuisance sensitive place
<table>
<tr><th>Receptor</th><th>Monday to Friday 8:00am - 6:00pm</th><th>Other times and public holidays</th></tr>
<tr><td rowspan="2">Nuisance sensitive place or commercial place</td><td>Air blast overpressure:
Air blast overpressure must not be more than 115dB (linear) peak for nine (9) out of any ten (10) consecutive blasts initiated, regardless of the interval between blasts; and
The air blast overpressure must not exceed 120dB (linear) peak for any blast.</td><td rowspan="2">No blasting to occur</td></tr>
<tr><td>Ground-borne vibration:
The ground-borne vibration must not exceed a peak particle velocity of 5mm per second for nine (9) out of any ten (10) consecutive blasts initiated, regardless of the interval between blasts; and
The ground-borne vibration must not exceed a peak particle velocity of 10mm per second for any blast.</td></tr>
</table></td></tr>
<tr><td>P4-A3</td><td>Blasting operations at the authorised place must meet the air blast overpressure and vibration limits as specified in Table 1- Vibration limits at a nuisance sensitive place.</td></tr>
<tr><td>P4-A4</td><td>All blasting must be carried out in a proper manner by a suitably qualified person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impacts of blasting.</td></tr>
</table>

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Agency interest: Water	
Condition number	**Condition**
P4-WT1	An ERA to which this approval relates must not release contaminants to waters, gutters or stormwater drainage lines.
P4-WT2	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
Agency interest: Land	
Condition number	**Condition**
P4-L1	The site (including all disturbed areas such as slopes, borrow pits, stockpile and screening areas) must be rehabilitated in a manner such that: a) Suitable native species of vegetation are planted and established; b) Potential for erosion of the site is minimised; c) The quality of stormwater, other water and seepage released from the site is such that releases of contaminants such as suspended solids, turbidity, total dissolved salts, pH, total iron, total aluminium, and total manganese are not likely to cause environmental harm; d) The likelihood of environmental nuisance being caused by release of dust is minimised; e) The water quality of any residual water body meets relevant criteria for subsequent uses and does not have potential to cause environmental harm; f) The final land form is stable and not subject to slumping; and g) Any actual and potential acid sulphate soils in or on the site are either not disturbed, or are submerged or treated, so as to not be likely to cause environmental harm.
P4-L2	The registered operator must keep records of rehabilitation measures implemented including photographs demonstrative of rehabilitation achieved and submit a report to the administering authority with each annual return detailing the outcomes of the rehabilitation program in the preceding twelve (12) months.
P4-L3	Any hydro-mulch formulations used in erosion control measures must make use of native grass seeds to prevent the spread of invasive species into downstream aquatic ecosystems.

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Agency interest: Waste	
Condition number	**Condition**
P4-WS1	Waste generated in the carrying out of the activity to which this approval relates must be stored, handled and transferred in a proper and efficient manner so as to prevent spillage or contamination of land or waters.
P4-WS2	Waste must not be burnt or be allowed to burn at the authorised place or removed and burnt elsewhere.

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Part 5 – Conditions relating to Gainsford Quarry

Agency interest: General	
Condition number	**Condition**
P5-G1	**Activities** under this environmental authority must be conducted in accordance with the following limitations: 1. The amount of material to be extracted must not exceed 100,000t per year; 2. The amount of material to be extracted must not exceed 100,000t per year; 3. Extraction must only be undertaken in the extraction area identified in Appendix 4: Gainsford Quarry Site Plan: all other activities must be undertaken in accordance with Appendix 4 – Gainsford Quarry Site Plan 4. A minimum buffer of 200m is required between the extraction, operations and stockpiling activities and wetlands of **high ecological significance**; 5. The extraction area must not exceed 8 metres in depth; 6. The extraction area must not exceed 5 ha at any one time.
P5-G2	All reasonable and practicable **measures** must be taken to prevent or minimise environmental harm caused by the **activities**.
P5-G3	Any breach of a condition of this environmental authority must be reported to the **administering authority** as soon as practicable within 24 hours of becoming aware of the breach. Records must be kept including full details of the breach and any subsequent actions taken.
P5-G4	Other than as permitted by this environmental authority, the **release of a contaminant into the environment** must not occur.
P5-G5	Environmental monitoring results must be kept until surrender of this environmental authority. All other information and records that are required by the conditions of this environmental authority must be kept for a minimum of five (5) years. All information and records required by the conditions of this environmental authority must be provided to the **administering authority, or nominated delegate** upon request**,** within the required timeframe and in the specified format.
P5-G6	An **appropriately qualified person(s)** must monitor, record and interpret all parameters that are required to be monitored by this environmental authority and in the manner specified by this environmental authority.
P5-G7	All analyses required under this environmental authority must be carried out by a laboratory that has National Association of Testing Authorities (**NATA**) certification, or an equivalent certification, for such analyses.
P5-G8	When required by the **administering authority**, monitoring must be undertaken in the manner prescribed by the **administering authority**, to investigate a complaint of environmental nuisance arising from the **activity**. The monitoring results must be provided within 10 business days to the **administering authority** upon its request.

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P5-G9	The **activity** must be undertaken in accordance with written procedures that: 1. identify potential risks to the environment from the **activity** during routine operations, closure and an emergency 2. establish and maintain control **measures** that minimise the potential for environmental harm 3. ensure plant, equipment and **measures** are maintained in a proper and effective condition 4. ensure plant, equipment and **measures** are operated in a proper and effective manner 5. ensure that staff are trained and aware of their obligations under the *Environmental Protection Act 1994* 6. ensure that reviews of environmental performance are undertaken at least annually.
P5-G10	The **activity** must not be carried out until **you** have given **financial assurance** to the **administering authority**.
P5-G11	Chemicals and fuels in containers of greater than 15 litres must be stored within a **secondary containment system**
Agency interest: Waste	
Condition number	**Condition**
P5-W1	All waste generated in carrying out the **activity** must be reused, recycled or removed to a facility that can lawfully accept the waste.
Agency interest: Air	
Condition number	**Condition**
P5-A1	Other than as permitted within this environmental authority, odours or airborne contaminants must not cause **environmental nuisance** to any **sensitive place** or **commercial place**.
Agency interest: Land	
Condition number	**Condition**
P5-L1	**Contaminants** must not be released to land.
P5-L2	**Land** that has been disturbed for **activities** conducted under this environmental authority must be rehabilitated in a manner such that: o suitable native species of vegetation for the location are established and sustained for earthen surfaces; o potential for erosion is minimised; o the quality of water released from the site, including seepage, does not cause environmental

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<table>
<tr><td></td><td>harm;
o potential for environmental nuisance caused by dust is minimised;
o the water quality of any residual water body does not have potential to cause environmental harm;
o the final landform is stable and protects public safety.</td></tr>
<tr><td>P5-L3</td><td>Rehabilitation of disturbed areas required under condition P5-L2, must take place progressively as works are staged and new extraction areas are commenced.</td></tr>
<tr><td>P5-L4</td><td>Significant residual impacts to prescribed environmental matters, are not authorised under this environmental authority.</td></tr>
<tr><td colspan="2">Agency interest: Acoustic</td></tr>
<tr><td>Condition number</td><td>Condition</td></tr>
<tr><td>P5-N1</td><td>Noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place.</td></tr>
<tr><td>P5-N2</td><td>Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 1 – Blasting noise limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements.
Table 1 - Blasting noise limits
<table>
<tr><th>Blasting criteria</th><th>Blasting limits</th></tr>
<tr><td>Airblast overpressure</td><td>115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.</td></tr>
<tr><td>Ground vibration peak particle velocity</td><td>5 mm/s peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/s peak particle velocity at any time.</td></tr>
</table>
Associated monitoring requirements
1. Monitoring must be performed in accordance with the most recent edition of the administering authority's Noise and Vibration from Blasting guideline and Noise Measurement Manual and any relevant Australian Standard.
2. All monitoring devices must be calibrated and maintained according to the manufacturer’s instruction manual.</td></tr>
<tr><td>P5-N3</td><td>Blasting must be carried out in accordance with the current edition of the administering authority's Noise and vibration from blasting guideline and with Australian Standard 2187.</td></tr>
<tr><td>P5-N4</td><td>Unless prior approval is obtained from the administering authority:
1. blasting is only permitted during the hours of 9 am to 3 pm Monday to Friday, and from 9 am to 1 pm on Saturdays.
2. blasting is not permitted at any time on Sundays or public holidays.</td></tr>
</table>

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P5-N5	When required by the **administering authority,** a blast monitoring program must be developed and implemented to monitor compliance with P5-N2***Error! Reference source not found.*** at any **sensitive place** or **commercial place**.
Agency Interest: Water	
Condition Number	**Condition**
P5-W1	Contaminants must not be released to any waters.
P5-W2	Erosion and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
P5-W3	Stormwater runoff from **disturbed areas** of the site, generated by (up to and including) a **24 hour storm event with an average recurrence interval of 1 in 5 years** must be retained on site and managed to remove contaminants prior to release.
P5-W4	Activities authorised under this permit must not: (a) drain or fill the wetland; (b) prohibit the flow of surface water in or out of the wetland; (c) lower or raise the water table and hydrostatic pressure outside the bounds of natural variability that existed before the activities commenced; (d) result in ongoing negative impacts to water quality of the wetlands; (e) result in bank instability; or (f) result in fauna ceasing to use adjacent areas for habitat, feeding or roosting or nesting.
P5-W5	Contaminants must not be released to **groundwater** or at a location where they are likely to release to **groundwater**.
P5-W6	A **groundwater monitoring system** must: (a) be designed and installed by an **appropriately qualified person(s)** with experience and qualifications in hydrology and **groundwater** monitoring; and (b) include a sufficient number of bores installed at locations and depths which yield representative **groundwater** samples from at least the uppermost aquifer so as to: i. detect any seepage of contaminants to **groundwater** from the site; and ii. establish the quality of **groundwater** affected by any seepage of contaminants; and (c) include monitoring of background **groundwater** quality, with both hydraulically **up-gradient bore(s)** or **background bore(s)** that have not been affected by any release of contaminants to **groundwater** from the **activity** and hydraulically **down gradient bore(s)** of the **activity**.
P5-W7	If a major departure from pre-quarrying groundwater level or groundwater quality is detected in the monitoring associated with P5-W6: i investigate the causes; and

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	ii notify the department; and iii identify and carry out any necessary remedial actions.

Definitions

Key terms and/or phrases used in this document are defined in this section. Applicants should note that where a term is not defined, the definition in the *Environmental Protection Act 1994*, its regulations or environmental protection policies must be used. If a word remains undefined it has its ordinary meaning.

Activity means the environmentally relevant activities, whether resource activities or prescribed activities, to which the environmental authority relates.

Airblast overpressure means energy transmitted from the blast site within the atmosphere in the form of pressure waves. The maximum excess pressure in this wave, above ambient pressure is the peak airblast overpressure measured in decibels [dB (Lin)].

Administering authority means the Department of Environment and Heritage Protection or its successors or predecessors.

Appropriately qualified person(s) means a person or persons who has professional qualifications, training, skills and experience relevant to the EA requirement and can give authoritative assessment, advice and analysis in relation to the EA requirement using the relevant protocols, standards, methods or literature.

Approval means an environmental authority issued under the *Environmental Protection Act 1994.*

Authorised place means the place authorised under this environmental authority for the carrying out of the specified environmentally relevant activities.

Blasting is the use of explosives to fracture:

- rock, coal and other minerals for later recovery; or
- structural components or other items to facilitate removal from a site or for reuse.

Commercial place means a place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Contaminant means (section 11 of the *Environmental Protection Act 1994*):

- A gas, liquid or solid;
- An odour;
- An organism (whether dead or alive, including a virus);
- Energy, including noise, heat, radioactivity and electromagnetic radiation; or
- A combination of contaminants.

dB(Lin) peak means the maximum readings in decibels (dB) obtained using 'P' time-weighting characteristic as specified in Australian Standard AS 1259.1 -1990 *Sound level meters – Part 1: Non-integrating* with all frequency weighted networks inoperative.

Disturbed areas includes areas:

1. that are susceptible to erosion;
2. that are contaminated by the **activity**; and/or
3. upon which stockpiles of soil or other materials are located.

Down-gradient bore means a **background bore** in a location hydraulically down gradient of those aspects of the **activity** that may affect groundwater quality.

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Environmental Nuisance means (section 15 of the *Environmental Protection Act 1994*) - Unreasonable interference or likely interference with an environmental value caused by:

- Aerosols, fumes, light, noise, odour, particles or smoke;
- An unhealthy, offensive or unsightly conditions because of contamination; or
- Another way prescribed by regulation (e.g. unreasonable noise or dust emissions).

Financial assurance as defined in Chapter 5 of the *Environmental Protection Act 1994*.

Groundwater means water that occurs naturally in, or is introduced artificially into, an aquifer

Groundwater monitoring system means a system of **groundwater** monitoring devices, such as monitoring bores, used to provide data in respect to the level and quality of **groundwater** in the uppermost aquifer where the location of the **groundwater** monitoring devices is such that comparisons of **groundwater** quality and **groundwater** level can be made between **groundwater** flowing from beneath the site (down-gradient flow) of the **activity** and **groundwater** flowing towards the site of the **activity** (up-gradient flow).

$L_{A\ 10,\ adj,\ 10\ mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 10% of any 10 minute measurement period, using Fast response.

$L_{A\ 1,\ adj,\ 10\ mins}$ means the A-weighted sound pressure level, (adjusted for tonal character and impulsiveness of the sound) exceeded for 1% of any 10 minute measurement period, using Fast response.

$L_{A,\ max\ adj,\ T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over any 10 minute period, using Fast response.

Land means land excluding waters and the atmosphere

Measures has the broadest interpretation and includes plant, equipment, physical objects, bunding, containment systems, monitoring, procedures, actions, directions and competency.

Mg/L means milligrams per litre.

Nominated delegate means another government agency that provides services to the **administering authority**.

Noxious means harmful or injurious to health or physical wellbeing.

Nuisance sensitive place includes:

- A dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- A motel, hotel or hostel; or
- A kindergarten, school, university or other educational institution; or
- A medical centre or hospital; or
- A protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- A public thoroughfare, park or gardens; or
- A place used as a workplace, an office or for business or commercial purposes and includes a place within the curtilage of such a place reasonably used by persons at that place.

Offensive means causing offence or displeasure; is disagreeable to the sense; disgusting, nauseous or repulsive.

Peak particle velocity (ppv) means a measure of ground vibration magnitude that is the maximum rate of change of ground displacement with time, usually measured in millimetres/seconds (mms^{-1}).

Prescribed environmental matters has the meaning in section 10 of the *Environmental Offsets Act 2014*, limited to the matters of State environmental significance listed in schedule 2 of the Environmental Offsets Regulation 2014.

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Release of a contaminant into the environment means to:

- deposit, discharge, emit or disturb the contaminant
- cause or allow the contaminant to be deposited, discharged, emitted or disturbed
- fail to prevent the contaminant from being deposited, discharged emitted or disturbed
- allow the contaminant to escape
- fail to prevent the contaminant from escaping.

Secondary containment system means a system designed, installed and operated to prevent any release of contaminants from the system, or containers within the system, to land, **groundwater**, or surface waters.

Sensitive place includes the following and includes a place within the curtilage of such a place reasonably used by persons at that place:

- a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
- a motel, hotel or hostel; or
- a kindergarten, school, university or other educational institution; or
- a medical centre or hospital; or
- a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 1992* or a World Heritage Area; or
- a public thoroughfare, park or gardens; or
- for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Significant residual impact has the meaning in section 8 *Environmental Offsets Act 2014*.

Site means land or tidal waters on or in which it is proposed to carry out the development approved under this environmental authority.

Vibration is the oscillating or periodic motion of a particle, group of particles, or solid object about its equilibrium position.

Watercourse means a river, creek or stream in which water flows permanently or intermittently:

- In a natural channel, whether artificially improved or not; or
- In an artificial channel that has changed the course of the watercourse.

Waters includes river, stream, lake, lagoon, pond, swamp, wetland, unconfined surface water, unconfined water natural or artificial watercourse, bed and bank of any waters, dams, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter, stormwater run-off, and groundwater and any part-thereof.

Wetlands of high ecological significance means a wetland that meets the definition of a wetland and that is shown as a wetland of 'high ecological significance' 'or wetland of 'high ecological value' on the Map of referable wetlands.

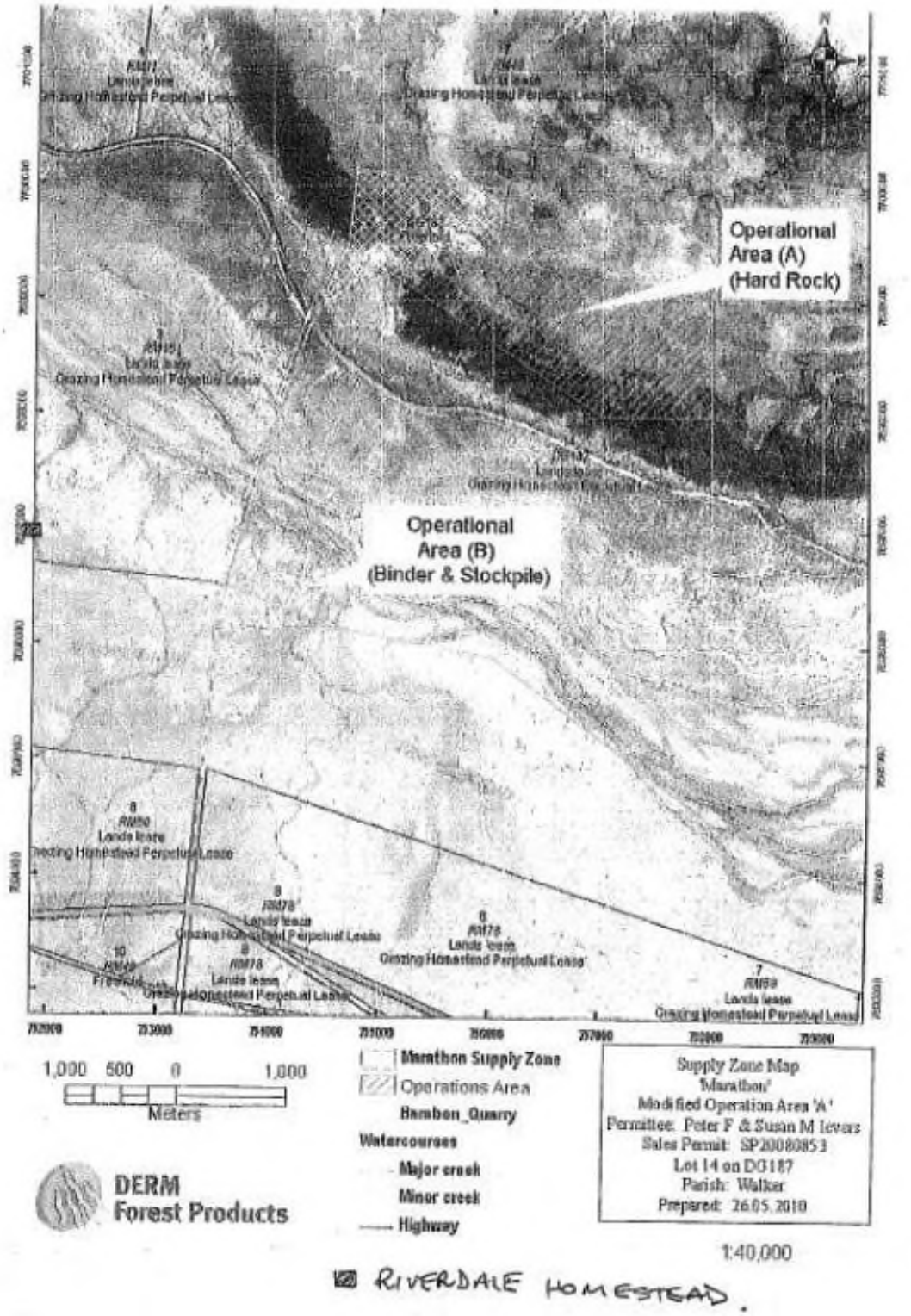
Works (or operation) means the activity approved under this environmental authority.

You means the holder of this environmental authority or the owner/occupier of the land which is the subject of this environmental authority.

24 hour storm event with an average recurrence interval of 1 in 5 years means the maximum rainfall depth from a 24 hour duration precipitation event with an average recurrence interval of once in 5 years. *For example, an Intensity-Frequency-Duration table for a 24 hour duration event with an average recurrence interval of 1 in 5 years, identifies a rainfall intensity of 7.09mm/hour. The rainfall depth for this event is therefore 24 hour x 7.09mm/hour = 170.16mm.*

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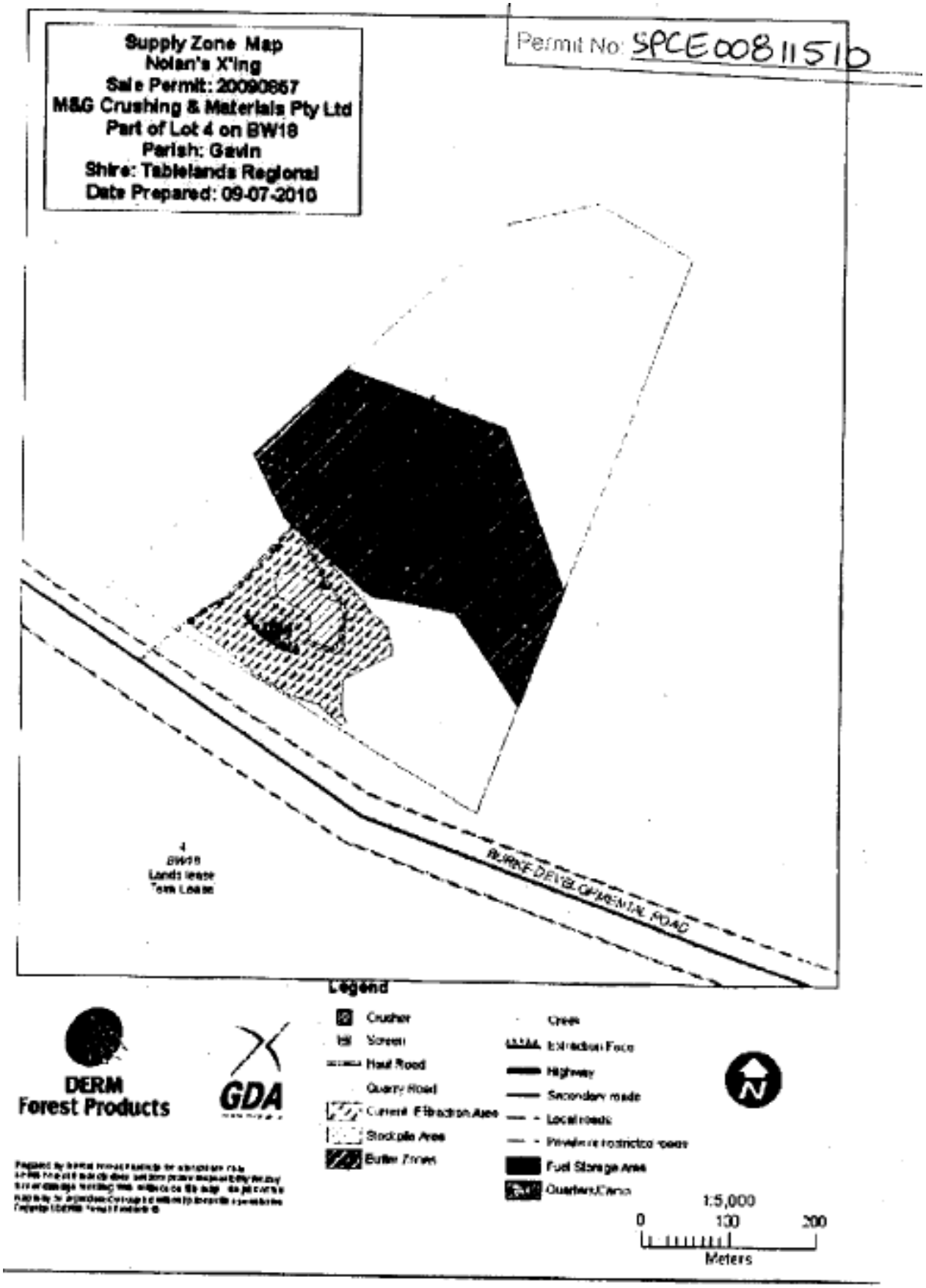
Appendix 1 – Marathon Quarry Site Plan



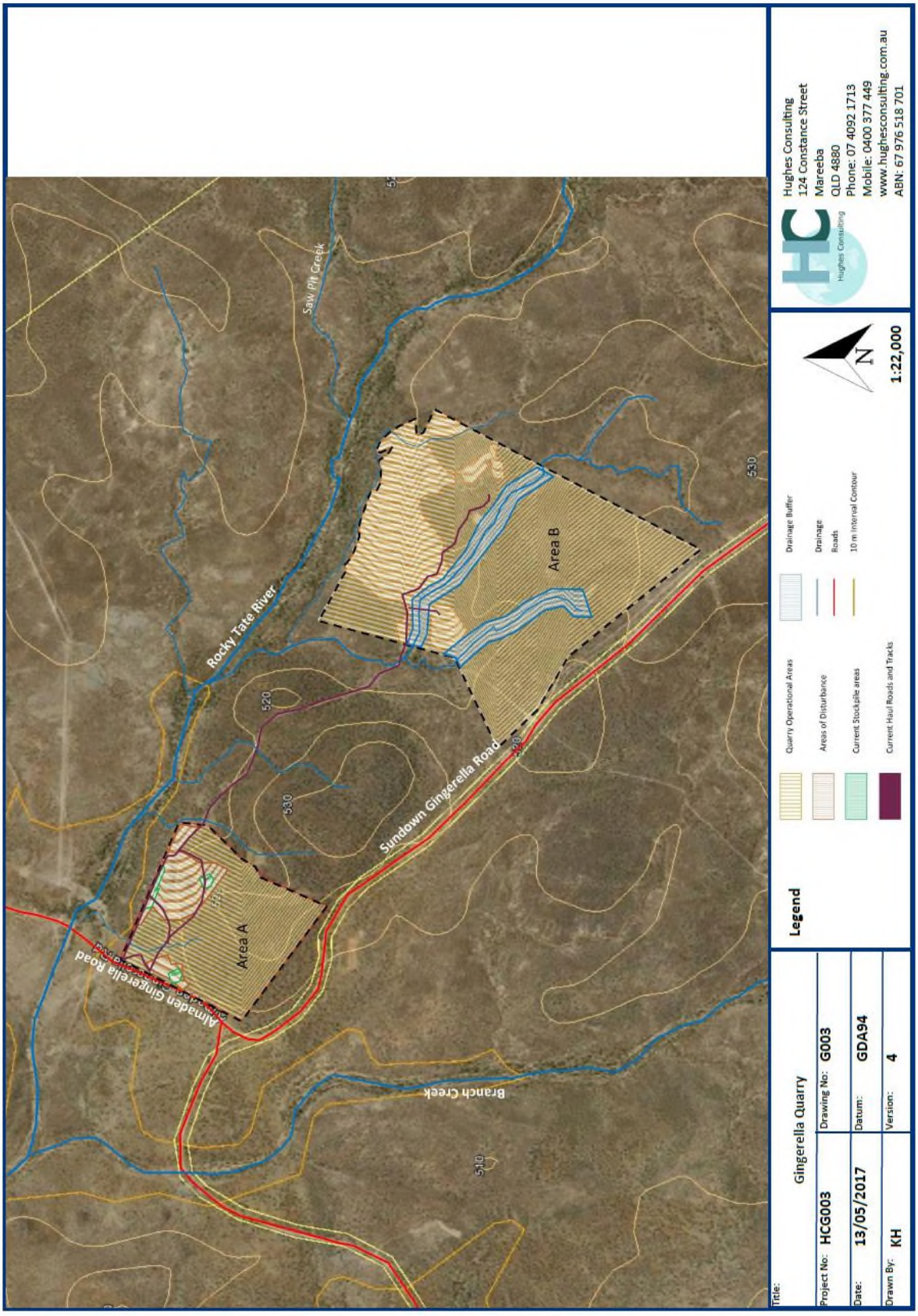
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Appendix 2: Quarry Operations Plan

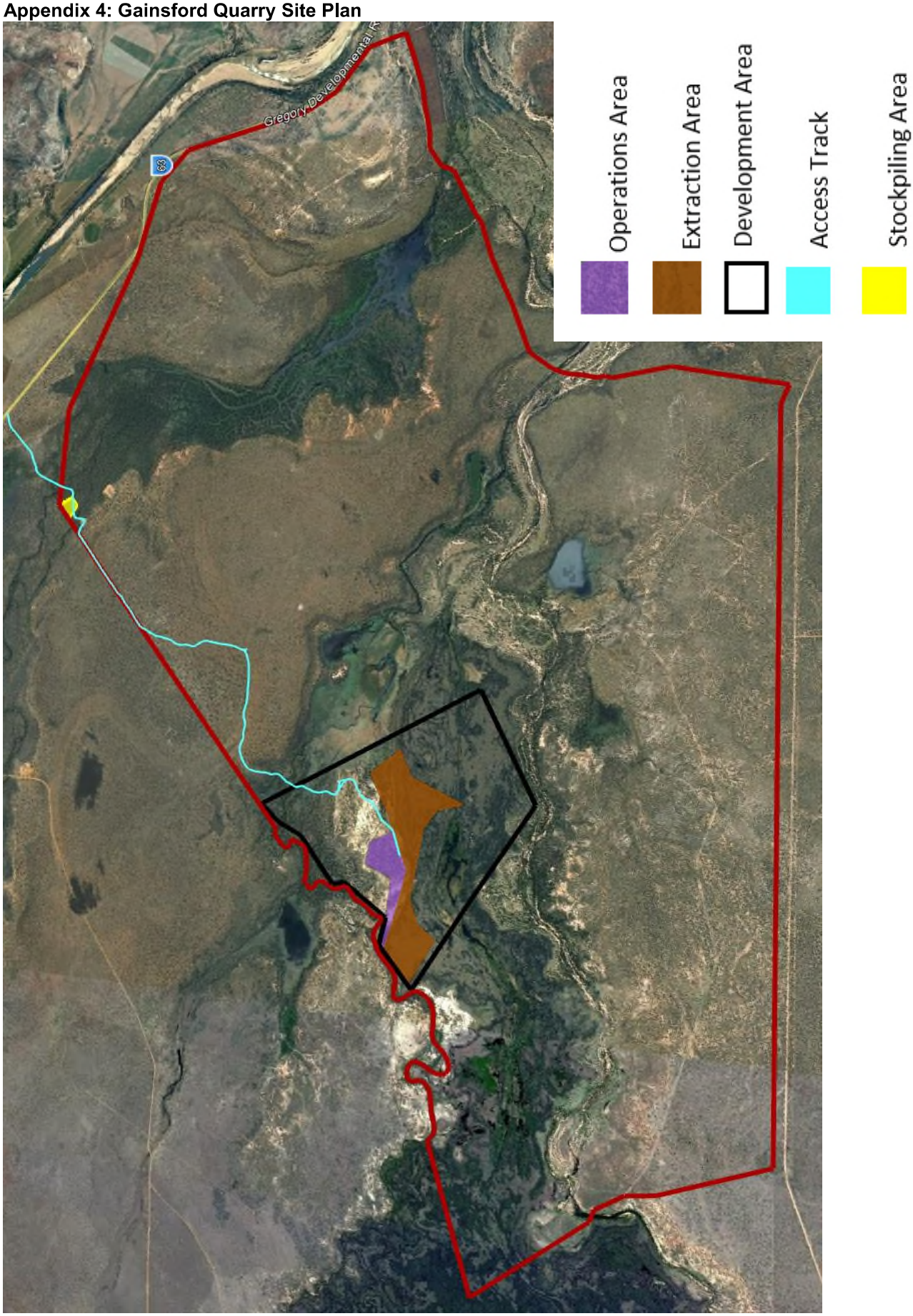


Appendix 3: Site plan G003, version 4, dated 13/05/2017, entitled "Gingerella Quarry"



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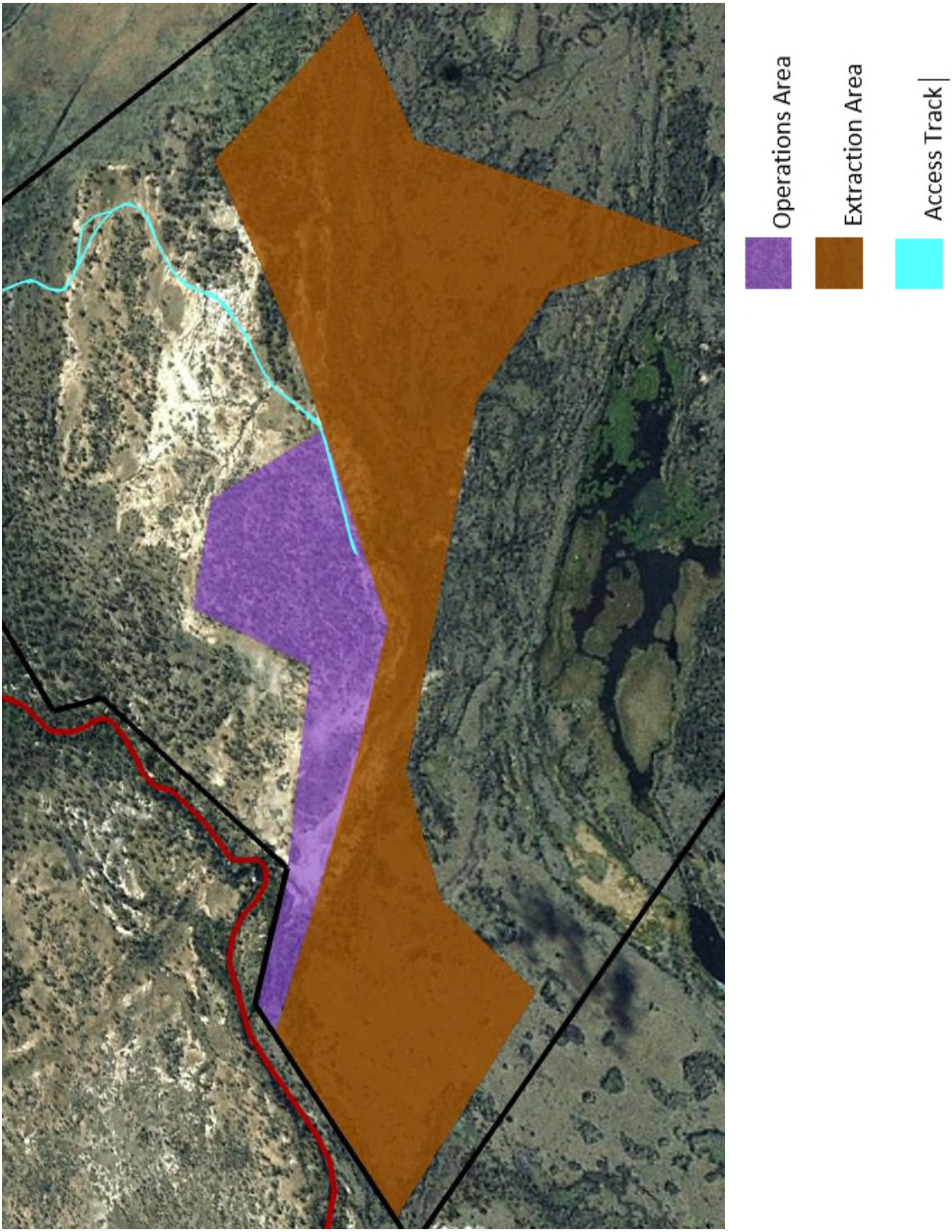
Appendix 4: Gainsford Quarry Site Plan



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