

Permit

Environmental Protection Act 1994

Environmental authority EPPR00663613

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

Environmental authority number: EPPR00663613

Environmental authority takes effect on the date it is issued.

The anniversary date of this environmental authority is 1 October each year.

Environmental authority holder

Name	Registered address
LD & LJ HILLERY PTY LIMITED	167 Richmond Rd BOWEN QLD 4805 Australia

Environmentally relevant activity and location details

Environmentally relevant activities	Locations
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and	Lot 26 Plan SP332252 Abbot Point Quarry, Access Road, Abbot Point
ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 44 Plan HR1599 Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Umina, Bowen Developmental Road Collinsville
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Off Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 1 Plan SP115943 Armuna Holdings Bowen Developmental Road, Bowen



ERA 16-2(b) – extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) – screening, in a year, 100,000t to 1,000,000t of material	Lot 3 and Lot 4 Plan SP234989 “Belmore Quarry”
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 5 on K1242 Millers Lane, Bowen Lot 5 Plan K1242 Millers Lane, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 9 on SP178909 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 2 on RP711274 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 49 on B6611 Don River
ERA 16-3(a) screening, in a year, the following quantity of material -more than 5,000t but not more than 100,000t	Mobile and temporary within the state of Queensland
ERA 16-2(a) extracting, other than by dredging, in a year, 5,000t to 100,000t of material	Lot 1 Plan K12440 Bootooloo Road, Bowen
ERA 53-(a) Composting & soil conditioner manufacturing >200t/yr	Lot 22 Plan SP106414 Collinsville Road, Bowen
ERA 57- transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

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).

Mobile and temporary activities

If you operate a mobile and temporary environmentally relevant activity (ERA), other than regulated waste transport, you are required to maintain a work diary. You must:

- use the approved form for a work diary (ESR/2015/1696);
- keep the work diary records for 2 years after the last entry;
- inform the administering authority within 7 days of the work diary being lost or stolen;
- record the information required in the work diary for each location within 1 day of leaving the location.

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

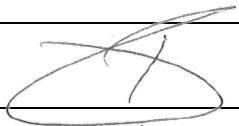
Please note that, in accordance with section 200 of the EP Act, an EA has effect:

- 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

27 February 2025

Date

Tristan Roberts
Department of the Environment, Tourism, Science
and Innovation
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Energy and Extractive Resources
Department of the Environment, Tourism, Science
and Innovation
GPO Box 2454
Brisbane QLD 4001
Phone: 1300 130 372
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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)

Other permits required

This permit only provides an approval under the *Environmental Protection Act 1994*. In order to lawfully operate you may also require permits / approvals from your local government authority, other business units within the department and other State Government agencies prior to commencing any activity at the site. For example, this may include permits / approvals with your local Council (for planning approval), the Department of Transport and Main Roads (to access State controlled roads), the Department of Resources (to clear vegetation), and the Department of Agriculture and Fisheries (to clear marine plants or to obtain a quarry material allocation).

Obligations under the *Mining and Quarrying Safety and Health Act 1999*

If you are operating a quarry, other than a sand and gravel quarry where there is no crushing capability, you will be required to comply with the *Mining and Quarrying Safety and Health Act 1999*. For more information on your obligations under this legislation contact Mine Safety and Health at www.resources.qld.gov.au, or phone 13 QGOV (13 74 68) or your local Mines Inspectorate Office.

Development Approval

This permit is not a development approval under the Planning Act 2016. The conditions of this environmental authority are separate, and in addition to, any conditions that may be on the development approval. If a copy of this environmental authority is attached to a development approval, it is for information only, and may not be current. Please contact the Department of the Environment, Tourism, Science and Innovation to ensure that you have the most current version of the environmental authority relating to this site.

Conditions of environmental authority

Part 1 - Conditions relevant to all activities and locations

Environmentally relevant activities	Locations
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and	Lot 26 Plan SP332252 Abbot Point Quarry, Access Road, Abbot Point
ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 44 Plan HR1599 Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Umina, Bowen Developmental Road Collinsville
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Off Abbot Point Road, Bowen
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 1 Plan SP115943 Armuna Holdings Bowen Developmental Road, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 5 on K1242 Millers Lane, Bowen Lot 5 Plan K1242 Millers Lane, Bowen
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 9 on SP178909 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 2 on RP711274 Don River
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Adjacent to Lot 49 on B6611 Don River
ERA 16-3(a) screening, in a year, the following	Mobile and temporary within the state of Queensland

quantity of material -more than 5,000t but not more than 100,000t	
ERA 16-2(a) extracting, other than by dredging, in a year, 5,000t to 100,000t of material	Lot 1 Plan K12440 Bootooloo Road, Bowen
ERA 53-(a) Composting & soil conditioner manufacturing >200t/yr	Lot 22 Plan SP106414 Collinsville Road, Bowen
ERA 57- transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G1	All reasonable and practicable measures must be taken to prevent or minimise environmental harm caused by the activities .
G2	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.
G3	Other than as permitted by this environmental authority, the release of a contaminant into the environment must not occur.
G4	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.
G5	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.
G6	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. The only exception to this condition is the <i>in situ</i> monitoring of turbidity, pH, electrical conductivity and dissolved oxygen.
G7	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.

G8	The activity must be undertaken in accordance with written procedures that: a) identify potential risks to the environment from the activity during routine operations and emergencies; and b) establish and maintain control measures that minimise the potential for environmental harm; and c) ensure plant, equipment and measures are maintained in a proper and effective condition; and d) ensure plant, equipment and measures are operated in a proper and effective manner; and e) ensure that staff are trained and aware of their obligations under the <i>Environmental Protection Act 1994</i>; and f) ensure that reviews of environmental performance are undertaken at least annually.
G9	Chemicals and fuels in containers of greater than 15 litres must be stored within a secondary containment system .
Agency interest: Air	
Condition number	Condition
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 .
A2	Dust and particulate matter emissions must not exceed the following concentrations at any sensitive place 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 (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 50 micrograms per cubic metre over a 24 hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 (or more recent editions) or any other method approved by the administering authority.
Agency interest: Water	
Condition number	Condition
WT1	Other than as permitted within this environmental authority, contaminants must not be released to any waters .
WT2	Erosion and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
WT3	Stormwater that is not contaminated by the activity must be diverted away from areas where it may become contaminated by the activity. Stormwater that is contaminated by the activity must be directed to a treatment system.

Agency interest: Noise	
Condition number	Condition
N1	Other than as permitted within this environmental authority, noise generated by the activity must not cause environmental nuisance to any sensitive place or commercial place .
N2	When required by the administering authority , noise monitoring must be undertaken in accordance with the associated monitoring requirements of <i>Table - Noise Limits</i> , and the results notified within 14 days to the administering authority . Monitoring must include: 1. L_{Aeq}, adj, T 2. Background noise (Background) as LA 90, adj, T 3. MaxLpA,T 4. the level and frequency of occurrence of any impulsive or tonal noise 5. atmospheric conditions including wind speed and direction 6. effects due to extraneous factors such as traffic noise 7. recording of location, date and time of measurements.
Agency interest: Land	
Condition number	Condition
L1	Land that has been disturbed for activities conducted under this environmental authority must be rehabilitated in a manner such that: 1. suitable native species of vegetation for the location are established and sustained for earthen surfaces; 2. potential for erosion is minimised; 3. the quality of water released from the site, including seepage, does not cause environmental harm; 4. potential for environmental nuisance caused by dust is minimised; 5. the water quality of any residual water body does not have potential to cause environmental harm; 6. the final landform is stable and protects public safety.
L2	Rehabilitation of disturbed areas required under Condition L1, must take place progressively as works are staged and new areas of extraction or dredging are commenced.
L3	Treatment and management of acid sulfate soils must comply with the current edition of the <i>Queensland Acid Sulfate Soil Technical Manual</i> .
Agency interest: Waste	
Condition number	Condition
WS1	All waste generated in carrying out the activity must be lawfully reused, recycled or removed to a facility that can lawfully accept the waste.

Part 2 – conditions for Lot 92 Plan DK182

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 92 Plan DK182 Collinsville Road, Bowen QLD 4805

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General																	
Condition number	Condition																
G10	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Extraction must only occur within the ‘Quarry Area’ indicated in Appendix 1. 2. Screening and stockpiling must only occur within the area labelled as ‘Stockpile and processing Pad’ in Appendix 1. 3. The amount of material extracted per year must not exceed 220,000 tonnes per annum; 4. The amount of material screened per year must not exceed 220,000 tonnes per annum.																
Agency interest: Water																	
Condition number	Condition																
WT4	Water is only permitted to be released from the Sediment Pond shown in Appendix 1.																
WT5	The only contaminants to be released to surface waters are settled treated stormwater to waters in accordance with <i>Table 1 - Surface water release limits</i> and the associated monitoring requirements. Table 1 - Surface water release limits <table><tr><th>Release Point(s) Description</th><th>Quality characteristic (units)</th><th>Limit</th><th>Limit Type</th><th>Minimum Monitoring Frequency</th></tr><tr><td rowspan="2">Release Point 1- RP1</td><td>Electrical conductivity (µS/cm)</td><td>1000</td><td>Maximum</td><td rowspan="2">Quarterly (every 3 months) or weekly when the freeboard of the sedimentation dam is less than 0.5m.</td></tr><tr><td>Total and dissolved metals (µg/L) including: aluminium, arsenic,</td><td>ANZECC and ARMCANZ (2000) guideline trigger levels</td><td></td></tr></table>				Release Point(s) Description	Quality characteristic (units)	Limit	Limit Type	Minimum Monitoring Frequency	Release Point 1- RP1	Electrical conductivity (µS/cm)	1000	Maximum	Quarterly (every 3 months) or weekly when the freeboard of the sedimentation dam is less than 0.5m.	Total and dissolved metals (µg/L) including: aluminium, arsenic,	ANZECC and ARMCANZ (2000) guideline trigger levels	
Release Point(s) Description	Quality characteristic (units)	Limit	Limit Type	Minimum Monitoring Frequency													
Release Point 1- RP1	Electrical conductivity (µS/cm)	1000	Maximum	Quarterly (every 3 months) or weekly when the freeboard of the sedimentation dam is less than 0.5m.													
	Total and dissolved metals (µg/L) including: aluminium, arsenic,	ANZECC and ARMCANZ (2000) guideline trigger levels															

		cadmium, chromium, copper, iron, lead, mercury, nickel, zinc, boron, cobalt, manganese, molybdenum, selenium, silver, and uranium.			
		Petroleum hydrocarbons (C6-C9) (µg/L)	20	Maximum	
		Petroleum hydrocarbons (C10-C36) (µg/L)	100	Maximum	
		Chlorophyll a (µg/L)	5.0	Maximum	
		Turbidity (NTU)	100	Maximum	
Associated monitoring requirements - Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Monitoring and Sampling Manual</i>. - Water and sediment samples must be representative of the general condition of the water body or sediments. - All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic. - Monitoring must be undertaken during a release and at the frequency stated. - All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.					
Agency interest: Noise					
Condition number	Condition				
N3	Noise from the activity must not exceed the levels identified in <i>Table 2 - Noise limits</i> when measured in accordance with the associated monitoring requirements.				

Table 2- Noise limits

Noise level measured in dB(A)	Monday to Saturday			Sunday and Public Holidays		
	7am-6pm	6pm-10pm	10pm-7am	9am-6pm	6pm-10pm	10pm-9am
	Noise measured at a nuisance sensitive place					
L _{Aeq adj,T}	Background +5	Background +3	Background +0	Background +5	Background + 3	Background + 0
MaxL _{pA,T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
Noise measured at a commercial place						
L _{Aeq adj,T}	Background +10	Background +8	Background +5	Background +10	Background +8	Background +5
MaxL _{pA,T}	Background +15	Background +13	Background +10	Background +15	Background +13	Background +10

Associated monitoring requirements

1. All monitoring devices must be correctly calibrated and maintained.
2. Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual.
3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.

N4 Generation of **substantial low frequency noise** is not permitted.

N5 **Blasting** activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 3 - *Blasting noise* limits when measured at any **sensitive place** or **commercial place** in accordance with the associated monitoring requirements.

Table 3 - Blasting noise limits

Blasting criteria	Blasting limits
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.

Associated monitoring requirements

1. Monitoring must be in accordance with the most recent editions 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 correctly calibrated and maintained.

N6	Blasting must be carried out in accordance with the current edition of the administering authority's <i>'Noise and vibration from blasting guideline'</i> and with Australian Standard 2187.
N7	Unless prior approval is obtained from the administering authority : 1. blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. 2. blasting is not permitted at any time on Sundays or public holidays.
N8	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 3 - Blasting noise</i> limits at any sensitive place or commercial place .

Part 3 – Conditions for mobile and temporary regulated waste transport

Environmentally Relevant Activities	Location
ERA 57-transporting regulated waste other than end-of-life tyres	Mobile and temporary within the state of Queensland

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G11	All vehicles used to transport regulated waste must be registered with the administering authority .
Agency interest: Waste	
Condition number	Condition
WS2	The regulated waste being transported must be compatible with the container.
WS3	Incompatible wastes must not be mixed in the same container or waste storage area.
WS4	Regulated waste is not permitted to be released from any vehicle or any container transported by that vehicle other than at a proper and appropriate place that can lawfully accept such waste.
WS5	The following regulated waste/s must not be transported under this approval: 1. Asbestos and Lead; 2. Infectious wastes and Cytotoxic wastes; 3. Equipment contaminated with Infectious and/or Cytotoxic wastes.

Part 4 – Conditions for Lot 45 Plan HR1600

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 45 Plan HR1600 Abbot Point Road, Bowen

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: Noise							
Condition number	Condition						
N9	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in Table 4 - <i>Blasting noise</i> limits when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 4 - 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>5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.</td></tr> </table> Associated monitoring requirements - Monitoring must be in accordance with the most recent editions of the administering authority's 'Noise and Vibration from Blasting' guideline and Noise Measurement Manual and any relevant Australian standard. - All monitoring devices must be correctly calibrated and maintained.	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.						
N10	Blasting must be carried out in accordance with the current edition of the administering authority's <i>Noise and vibration from blasting guideline</i> and with <i>Australian Standard 2187</i> .						
N11	Unless prior approval is obtained from the administering authority: 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. blasting is not permitted at any time on Sundays or public holidays.						
N12	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 4 - Blasting noise limits</i> at any sensitive place or commercial place .						

N13

Noise from the **activity** must not exceed the levels identified in *Table 5 - Noise limits* when measured in accordance with the associated monitoring requirements.

Table 5 - Noise limits

	7am–6pm	6pm–10pm	10pm–7am
	Noise measured at the sensitive place*		
L _{Amax} adj, T	Background noise level plus 5 dB(A)	Background noise level plus 5 dB(A)	Background noise level plus 3 dB(A)
	Noise measured at the commercial place		
L _{Amax} adj, T	Background noise level plus 10 dB(A)	Background noise level plus 10 dB(A)	Background noise level plus 8 dB(A)

Associated monitoring requirements

1. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.
2. Any monitoring must be in accordance with the most recent version of the **administering authority's Noise Measurement Manual**.
3. Any monitoring of noise emissions from the **activity** must be undertaken when the **activity** is in operation

Part 5 – Conditions for Lot 26 Plan SP332252

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 26 Plan SP332252 Abbot Point Quarry, Access Road, Abbot Point
	Lot 44 Plan HR1599 Abbot Point Road, Bowen

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General							
Condition number	Condition						
G12	A minimum buffer distance of 50m must be maintained between extraction areas and the high banks of any watercourse, lake or wetland.						
Agency interest: Noise							
Condition number	Condition						
N14	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table 6 - Blasting noise limits</i> when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 6 - 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>5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.</td></tr> </table> Associated monitoring requirements - Monitoring must be in accordance with the most recent editions of the administering authority's 'Noise and Vibration from Blasting' guideline and Noise Measurement Manual and any relevant Australian standard. - All monitoring devices must be correctly calibrated and maintained.	Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.	Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.
Blasting criteria	Blasting limits						
Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.						
Ground vibration peak particle velocity	5mm/second peak particle velocity for 9 out of 10 consecutive blasts and not greater than 10 mm/second peak particle velocity at any time.						

N15	Blasting must be carried out in accordance with the current edition of the administering authority's <i>Noise and vibration from blasting guideline</i> and with Australian Standard 2187.
N16	Unless prior approval is obtained from the administering authority : 1. blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. 2. blasting is not permitted at any time on Sundays or public holidays.
N17	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 6 - Blasting noise limits</i> at any sensitive place or commercial place .

Part 6 – Conditions for Lot 5 Plan K1242 and adjacent to Lot 5 Plan K1242

Environmentally Relevant Activities	Location
ERA 16-1(b) — dredging, in a year, 10,000t to 100,000t of material; and	Adjacent to Lot 5 on K1242 Millers Lane, Bowen
ERA 16-3(a) — screening, in a year, 5,000t to 100,000t of material	Lot 5 Plan K1242 Millers Lane, Bowen

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G13	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. The amount of material dredged per calendar year must not exceed 36,000 tonnes; and 2. The amount of material screened per calendar year must not exceed 36,000 tonnes; and 3. Dredging activities must only be conducted within the 'Extraction Area' identified in <i>Appendix 3 – Millar's Lane Sand Quarry – Don River</i>, between the following coordinates: Upstream (-19.99228, 148.19810) and Downstream (-19.989111, 148.198639); and 4. Clearing of riparian vegetation is not permitted.
Agency interest: Land	
Condition number	Condition
L4	With the exception of floating equipment, all machinery and ancillary equipment for the activity must be stored on the landward side of the high banks of any surface waters.

Part 7 – Conditions for Lot 1 Plan SP115943

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 1 Plan SP115943 Armuna Holdings Bowen Development Road, Bowen

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General																																												
Condition number	Condition																																											
G14	Activities under this environmental authority must be conducted in accordance with the following limitations: 1. Extraction must only occur within a. Extraction Area 1 in Appendix 2, as bounded by the following GPS coordinates; and <table><tr><th>Point No</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>-20.13869</td><td>148.05765</td></tr><tr><td>2</td><td>-20.13765</td><td>148.05880</td></tr><tr><td>3</td><td>-20.13871</td><td>148.06058</td></tr><tr><td>4</td><td>-20.14054</td><td>148.05991</td></tr><tr><td>5</td><td>-20.14068</td><td>148.05934</td></tr><tr><td>6</td><td>-20.13947</td><td>148.05782</td></tr></table> b. Extraction Area 2 in Appendix 2, as bounded by the following GPS coordinates; <table><tr><th>Point No</th><th>Latitude</th><th>Longitude</th></tr><tr><td>1</td><td>-20.13931</td><td>148.05396</td></tr><tr><td>2</td><td>-20.14052</td><td>148.05510</td></tr><tr><td>3</td><td>-20.14095</td><td>148.05450</td></tr><tr><td>4</td><td>-20.14198</td><td>148.05522</td></tr><tr><td>5</td><td>-20.14297</td><td>148.05333</td></tr><tr><td>6</td><td>-20.142217</td><td>148.05184</td></tr></table>		Point No	Latitude	Longitude	1	-20.13869	148.05765	2	-20.13765	148.05880	3	-20.13871	148.06058	4	-20.14054	148.05991	5	-20.14068	148.05934	6	-20.13947	148.05782	Point No	Latitude	Longitude	1	-20.13931	148.05396	2	-20.14052	148.05510	3	-20.14095	148.05450	4	-20.14198	148.05522	5	-20.14297	148.05333	6	-20.142217	148.05184
Point No	Latitude	Longitude																																										
1	-20.13869	148.05765																																										
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6	-20.142217	148.05184																																										

	<table><tr><td>7</td><td>-20.14055</td><td>148.0516185</td></tr></table> 2. The amount of material extracted per year must not exceed 600,000 tonnes per annum; 3. The amount of material screened per year must not exceed 600,000 tonnes per annum; 4. The depth of extraction in Extraction Area 2 must not exceed 64 metres AHD.	7	-20.14055	148.0516185																																	
7	-20.14055	148.0516185																																			
Agency interest: Noise																																					
Condition number	Condition																																				
N19	Noise from the activity must not exceed the levels identified in <i>Table 7- Noise limits</i> when measured in accordance with the associated monitoring requirements. Table 7- Noise limits <table><tr><td></td><td colspan="3">Monday to Saturday</td><td colspan="3">Sunday and Public Holidays</td></tr><tr><td></td><td>7am–6pm</td><td>6pm–10pm</td><td>10pm–7am</td><td>7am–6pm</td><td>6pm–10pm</td><td>10pm–7am</td></tr><tr><td></td><td colspan="6">Noise measured at the sensitive place*</td></tr><tr><td>L_{Aeq}, adj, T</td><td>42</td><td>35</td><td>30</td><td>42</td><td>35</td><td>30</td></tr><tr><td>Max L_{pA} T</td><td>N/A</td><td>N/A</td><td>47</td><td>N/A</td><td>N/A</td><td>47</td></tr></table> * A residential dwelling at the location is not considered to be a sensitive place, so long as a contractual arrangement exists between you and the owner of the dwelling Associated monitoring requirements 1. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual. 2. Any monitoring must be in accordance with the most recent version of the administering authority's Noise Measurement Manual. 3. Any monitoring of noise emissions from the activity must be undertaken when the activity is in operation.			Monday to Saturday			Sunday and Public Holidays				7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am		Noise measured at the sensitive place*						L _{Aeq} , adj, T	42	35	30	42	35	30	Max L _{pA} T	N/A	N/A	47	N/A	N/A	47
	Monday to Saturday			Sunday and Public Holidays																																	
	7am–6pm	6pm–10pm	10pm–7am	7am–6pm	6pm–10pm	10pm–7am																															
	Noise measured at the sensitive place*																																				
L _{Aeq} , adj, T	42	35	30	42	35	30																															
Max L _{pA} T	N/A	N/A	47	N/A	N/A	47																															
N20	Generation of substantial low frequency noise is not permitted.																																				
N21	Blasting activities must not exceed the limits for peak particle velocity and air blast overpressure in <i>Table 8 - Blasting noise limits</i> when measured at any sensitive place or commercial place in accordance with the associated monitoring requirements. Table 8 - Blasting noise limits <table><tr><td>Blasting criteria</td><td>Blasting limits</td></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></table>		Blasting criteria	Blasting limits	Airblast overpressure	115 dB (Linear) Peak for 9 out of 10 consecutive blasts initiated and not greater than 120 dB (Linear) Peak at any time.																															
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	<table><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>	Ground vibration peak particle velocity	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.
Ground vibration peak particle velocity	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.		
	Associated monitoring requirements - Monitoring must be performed in accordance with the most recent edition of the administering authority's <i>Noise and Vibration from Blasting guideline</i> and <i>Noise Measurement Manual</i> and any relevant <i>Australian Standard</i>. - All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.		
N22	Blasting must be carried out in accordance with the current edition of the administering authority's <i>'Noise and vibration from blasting guideline'</i> and with Australian Standard 2187.		
N23	Unless prior approval is obtained from the administering authority : blasting is only permitted during the hours of 9am to 3pm Monday to Friday, and from 9am to 1pm on Saturdays. - blasting is not permitted at any time on Sundays or public holidays.		
N24	When required by the administering authority , a blast monitoring program must be developed and implemented to monitor compliance with <i>Table 8- Blasting noise limits</i> at any sensitive place or commercial place .		

Agency interest: Water																											
Condition number	Condition																										
WT6	The only contaminants to be released to surface waters are settled or treated stormwater runoff to waters in accordance with <i>Table 9 - Surface water release limits</i> and the associated monitoring requirements. Table 9 - Surface water release limits <table><tr><th>Release Point(s) Description Latitude Longitude</th><th>Quality characteristic (units)</th><th>Limit *</th><th>Limit Type</th><th>Minimum Monitoring Frequency</th></tr><tr><td>Catchment 1 release point -20.13977, 148.05979</td><td rowspan="2">Dissolved Oxygen (% saturation)</td><td rowspan="2">85–110</td><td rowspan="2">Range</td><td rowspan="5">Upon release</td></tr><tr><td>Catchment 2 release point -20.13686, 148.05732</td></tr><tr><td>Catchment 3 release point - 20.13694, 148.05943</td><td>Suspended Solids (mg/L)</td><td>13</td><td>Maximum</td></tr><tr><td>Catchment 4 release point - 20.13671, 148.06085</td><td>pH</td><td>6.5–8.0</td><td>Range</td></tr><tr><td>Catchment 5 release point: -20.1395, 148.0542</td><td>Conductivity (µS/cm)</td><td>1020</td><td>Maximum</td></tr></table>				Release Point(s) Description Latitude Longitude	Quality characteristic (units)	Limit *	Limit Type	Minimum Monitoring Frequency	Catchment 1 release point -20.13977, 148.05979	Dissolved Oxygen (% saturation)	85–110	Range	Upon release	Catchment 2 release point -20.13686, 148.05732	Catchment 3 release point - 20.13694, 148.05943	Suspended Solids (mg/L)	13	Maximum	Catchment 4 release point - 20.13671, 148.06085	pH	6.5–8.0	Range	Catchment 5 release point: -20.1395, 148.0542	Conductivity (µS/cm)	1020	Maximum
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	<i>* Decimal degrees to be provided to a minimum of 4 decimal places.</i> Associated monitoring requirements 1. Monitoring must be in accordance with the methods prescribed in the current edition of the administering authority's <i>Monitoring and Sampling Manual</i>. 2. Water and sediment samples must be representative of the general condition of the water body or sediments. 3. All determinations must employ analytical practical quantification limits of sufficient sensitivity to enable comparisons to be made against water quality objectives/triggers/limits relevant to the particular water or sediment quality characteristic. 4. Monitoring must be undertaken during a release and at the frequency stated. 5. All monitoring devices must be calibrated and maintained according to the manufacturer's instruction manual.
WT7	The release to waters permitted under Condition WT6 must not contain any other properties at a concentration capable of causing environmental harm.

Part 8 – Conditions for mobile and temporary screening

Environmentally Relevant Activities	Location
ERA 16-3(a) Screening, in a year, the following quantity of material -more than 5,000t but not more than 100,000t	Mobile and temporary within the state of Queensland

The environmentally relevant activity conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
G15	A minimum buffer distance of 50m must be maintained between the activity and the high banks of any watercourse, lake or wetland.
Agency interest: Land	
Condition number	Condition
L5	Acid sulfate soils, acid producing rock and marine sediments must not be processed.
L6	Contaminants must not be released to land from the activity.

Definitions Part 1 to Part 8

Key terms and/or phrases in this environmental authority are defined in this section. 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.

Administering authority means the Department of the Environment, Tourism, Science and Innovation or its successor or predecessors.

Airblast overpressure is the energy transmitted from the blast site within the atmosphere in the form of pressure waves. As these waves pass a given position, the pressure of the air rises very rapidly then falls more slowly then returns to the ambient value after a number of oscillations. The pressure wave consists of both audible (noise) and inaudible (concussion) energy. The maximum excess pressure in this wave is known as the peak air overpressure, generally measured in decibels using the linear frequency-weighting.

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

Aqueous waste means any aqueous waste including process water, water that has otherwise been used in the carrying out of the activity or sewage, whether or not the waste has been treated, but excluding stormwater and water used for dust suppression that has been treated to remove contaminants.

Audible noise means noise that can be clearly heard by an individual who is an occupier at a place listed in Condition N25.

Background means noise, measured in the absence of the noise under investigation, as $L_{A\ 90, adj, T}$ being the A-weighted sound pressure level exceeded for 90 per cent of the time period of not less than 15 minutes, using Fast response.

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(s) as defined in Section 11 of the *Environmental Protection Act 1994*.

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.

Environmental harm as defined in Section 14 of the *Environmental Protection Act 1994*.

Environmental nuisance as defined in Chapter 1 of the *Environmental Protection Act 1994*.

Environmental value –

- a quality or physical characteristic of the environment that is conducive to ecological health or public amenity or safety; or
- another quality of the environment identified and declared to be an environmental value under an environmental protection policy or regulation.

Facility means the area used for carrying out the ERA including any buildings, disturbed areas or any associated infrastructure.

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

Land means any land, whether above or below the ordinary high-water mark at spring tides (i.e. includes **tidal**

land).

L_{Aeq, adj, T} means the adjusted A weighted equivalent continuous sound pressure level measured on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes when the **activity** is causing a steady state noise, and no shorter than one hour when the approved **activity** is causing an intermittent noise.

L_{Amax adj, T} means the maximum A-weighted sound pressure level measured on fast response, adjusted for tonality and impulsiveness, during the time period T, where T is measured for a period no less than 15 minutes

Max L_{pA T} means the maximum A-weighted sound pressure level measured over a time period T of not less than 15 minutes, using Fast response

Maintenance as defined in Schedule 6 of the *Transport Infrastructure Act 1994*.

Measures has the broadest interpretation and includes:

- Procedural measures such as standard operating procedures for dredging operations, environmental risk assessment, management actions, departmental direction and competency expectations under relevant guidelines
- Physical measures such as plant, equipment, physical objects (such as bunding, containment systems etc.), ecosystem monitoring and bathymetric surveys.

Minimise means by taking all reasonable and practical measures to minimise the adverse effect having regard to the following matters:

- a) the nature of the harm or potential harm
- b) the sensitivity of the receiving environment
- c) the current state of technical knowledge for the activity
- d) the likelihood of successful application of different measures that might be taken to minimise the adverse effects
- e) the financial implications of the different measures as they would relate to the type of activity
- f) if the adverse effect is caused by the location of the activity being carried out, whether it is feasible to carry out the activity at another location.

NATA means National Association of Testing Authorities.

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

Noxious means harmful or injurious to health or physical well-being.

Nuisance sensitive place includes:

- within or outside of a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises
- within or outside of a motel, hotel or hostel
- within or outside of a kindergarten, school, university or other educational institution
- within or outside of a medical centre or hospital
- within a protected area under the *Nature Conservation Act 1992*, within a marine park under the *Marine Parks Act 1992* or a world heritage area
- within a public thoroughfare, park or gardens
- within or outside of 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 unreasonably disagreeable to the senses; disgusting, nauseous or repulsive.

Prescribed water contaminants means contaminants listed within Schedule 9 of the Environmental Protection Regulation 2008.

Priority ports

Each of the following ports is a priority port as per the *Sustainable Ports Development Act 2015*—

- (a) Port of Abbot Point;

- (b) Port of Gladstone;
- (c) the ports of Hay Point and Mackay;
- (d) Port of Townsville.

Rail transport infrastructure means as defined in Schedule 6 of the *Transport Infrastructure Act 1994*.

Records include breach notifications, written procedures, analysis results, monitoring reports and monitoring programs required under a condition of this authority.

Release of a contaminant into the environment means to:

1. deposit, discharge, emit or disturb the contaminant
2. cause or allow the contaminant to be deposited, discharged, emitted or disturbed
3. fail to prevent the contaminant from being deposited, discharged emitted or disturbed
4. allow the contaminant to escape
5. fail to prevent the contaminant from escaping.

Restricted area means an area that is within the Great Barrier Reef World Heritage Area but outside the Commonwealth marine park.

Note—See the Commonwealth *Marine Park Act* for prohibitions relating to the Commonwealth marine park and Great Barrier Reef Region under that Act.

Road as defined in section 93 of the *Land Act 1994*.

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:

1. a dwelling, residential allotment, mobile home or caravan park, residential marina or other residential premises; or
2. a motel, hotel or hostel; or
3. a kindergarten, school, university or other educational institution; or
4. a medical centre or hospital; or
5. a protected area under the *Nature Conservation Act 1992*, the *Marine Parks Act 2004* or a World Heritage Area; or
6. a public park or garden; or
7. for noise, a place defined as a sensitive receptor for the purposes of the Environmental Protection (Noise) Policy 2008.

Spring the land to which water rises naturally from below the ground and the land over which the water then flows.

Stormwater that is not contaminated by the activity includes stormwater runoff from external or undisturbed catchments.

Substantial low frequency noise means a noise emission that has an unbalanced frequency spectrum shown in a one-third octave band measurement, with a predominant component within the frequency range 10 to 200 Hz. It includes any noise emission likely to cause an overall sound pressure level at a sensitive place exceeding 55 dB(Z).

Tidal land means land that is submerged at any time by tidal water.

You means the holder of the environmental authority.

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

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.

Watercourse as defined in Section 8, Schedule 12 of the Environmental Protection Regulation 2008.

Wetland as defined in Schedule 12 of the Environmental Protection Regulation 2008, means an area shown as a wetland on the map of referable wetlands.

Part 9 – Conditions for Lot 3 and Lot 4 Plan SP234989

Environmentally Relevant Activities	Location
ERA 16-2(b) — extracting, other than by dredging, in a year 100,000t to 1,000,000t of material; and ERA 16-3(b) — screening, in a year, 100,000 to 1,000,000t of material	Lot 3 and Lot 4 Plan SP234989 “Belmore Quarry”

The environmentally relevant activities conducted at the locations described above for this part must be conducted in accordance with the following site specific conditions.

Agency interest: General	
Condition number	Condition
9-PG1	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.
9-PG2	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 minimize likelihood of environmental harm. d) Contingency plans and emergency procedures for non-routine situations. e) Organizational structure and responsibility. f) Effective communication. g) Monitoring of contaminant releases. h) Conducting environmental impact assessments. i) Staff training. j) Record keeping. k) Periodic review of environmental performance and continual improvement.
9-PG3	The site-based management plan must not be implemented or amended in a way that contravenes any condition of this approval.
9-PG4	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority when requested.
9-PG5	All records required by this approval must be kept for 5 years.
9-PG6	Telephone the EPA’s 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.
9-PG7	A written notice detailing the following information must be provided to the EPA within 14 days of any advice provided in accordance with condition 9-PG6: a) the name of the operator, including their approval / registration 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.
9-PG8	A competent person(s) must conduct any monitoring required by this approval.
9-PG9	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.
9-PG10	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.
9-PG11	Anyone operating under this approval must be trained in the use of the spill kit.
9-PG12	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; and 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.
Agency interest: Air	
Condition number	Condition
9-PA1	The release of dust and/or particulate matter resulting from the ERA must not cause an environmental nuisance at any sensitive or commercial place.
9-PA2	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 AS3580.10.1 of 2003 (or more recent editions); OR b) A concentration of particulate matter with an aerodynamic diameter of less than 10 micrometer (µm) (PM10) suspended in the atmosphere of 150 micrograms per cubic meter over a 24 hour averaging time, at a nuisance sensitive or commercial place downwind of the site, when monitored in accordance with: a. 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 b. 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.
9-PA3	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
9-PL1	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 minimized. 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/slipping; 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.
9-PL2	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.
Agency interest: Noise	
Condition number	Condition
9-PN1	Noise from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
9-PN2	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: - LA 10, adj, 10 mins; - LA 1, adj, 10 mins; - the level and frequency of occurrence of impulsive or tonal noise; - atmospheric conditions including wind speed and direction; - effects due to extraneous factors such as traffic noise; and - location, date and time of recording.
9-PN3	The method of measurement and reporting of noise levels must comply with the latest edition of the Environmental Protection Agency's Noise Measurement Manual.
9-PN4	Vibration emitted from the ERA must not cause an environmental nuisance at any nuisance sensitive place or commercial place.
9-PN5	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
9-PS1	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: Water	
Condition number	Condition
9-PW1	Contaminants must not be released from the site to any waters or the bed and banks of any waters.
9-PW2	Erosion protection measures and sediment control measures must be implemented and maintained to minimise erosion and the release of sediment.
9-PW3	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.

Definitions Part 9

Key terms and/or phrases in this environmental authority are defined in this section. 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.

"administering authority" means the Environmental Protection. Agency or its successor.

"annual return" means the return required by the annual notice (under section 316 of the *'Environment Protection Act 1994*) for the section 73F registration certificate that applies to the development approval.

"approval" means 'notice of development application decision' or 'notice of concurrence agency response' under the *Integrated Planning Act 1997*.

"approved plans" means the plans and documents listed in the approved plans section in the notice attached to this development approval.

"authorised place" means the place authorised under this development approval for the carrying out of the specified environmentally relevant activities.

"commercial place" means a place used as an office or for business or commercial purposes.

"dwelling" means any of the following structures or vehicles that is principally used as a residence —

- a house, unit, motel, nursing home or other building or part of a building;
- a caravan, mobile home or other vehicle or structure on land;
- a water craft in a marina.

"Environmental Protection Agency" means the department or agency (whatever called) administering the *Coastal Protection and Management Act 1995* or the *Environmental Protection Act 1994*.

"intrusive noise" means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration —

- is clearly audible to, or can be felt by, an individual; and
- annoys the individual.
- In determining whether a noise annoys an individual and is unreasonably intrusive, regard must be given to Australian Standard 1055.2 — 1997 Acoustics — Description and Measurement of Environmental Noise Part 2 — Application to Specific Situations.

"LA_{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.

"LA_{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.

"LA_{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" in the "land schedule" of this document means land excluding waters and the atmosphere.

"mg/L" means milligrams per litre.

"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.

"protected area" means —

- a protected area under the *Nature Conservation Act 1992*; or
- a marine park under the *Marine Parks Act 1992*; or
- a World Heritage Area.

"quarry material" means material on State coastal land, other than a mineral within the meaning of any Act relating to mining. Material includes for example stone, gravel, sand, rock, clay, mud, silt and soil, unless it is removed from a culvert, stormwater drain or other drainage infrastructure as waste material.

"site" means land or tidal waters on or in which it is proposed to carry out the development approved under this development approval.

"watercourse" means a river, creek or stream in which water flows permanently or intermittently-

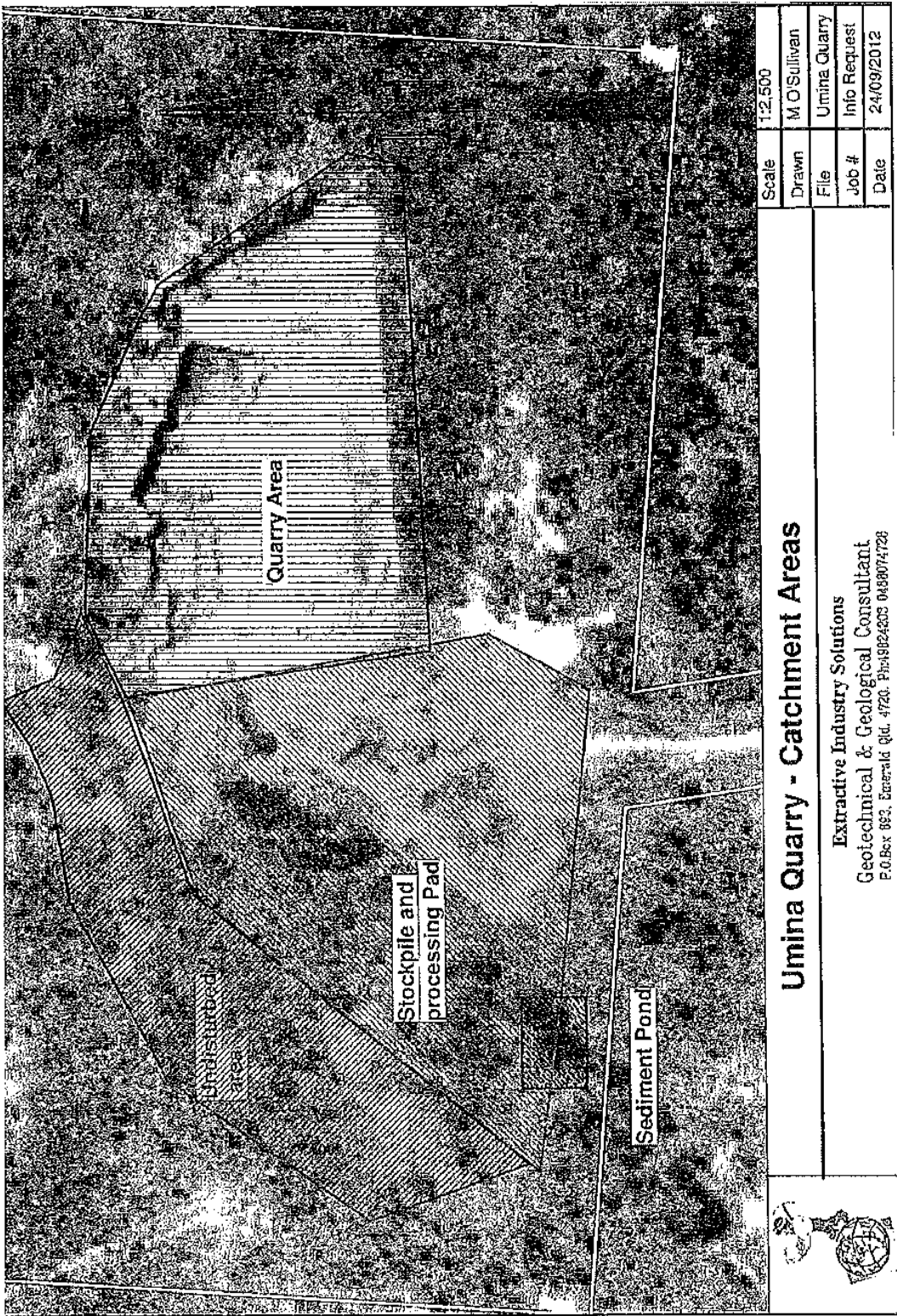
- in a natural channel, whether artificially improved or not; or
- in an artificial channel that has changed the course of the watercourse.

"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.

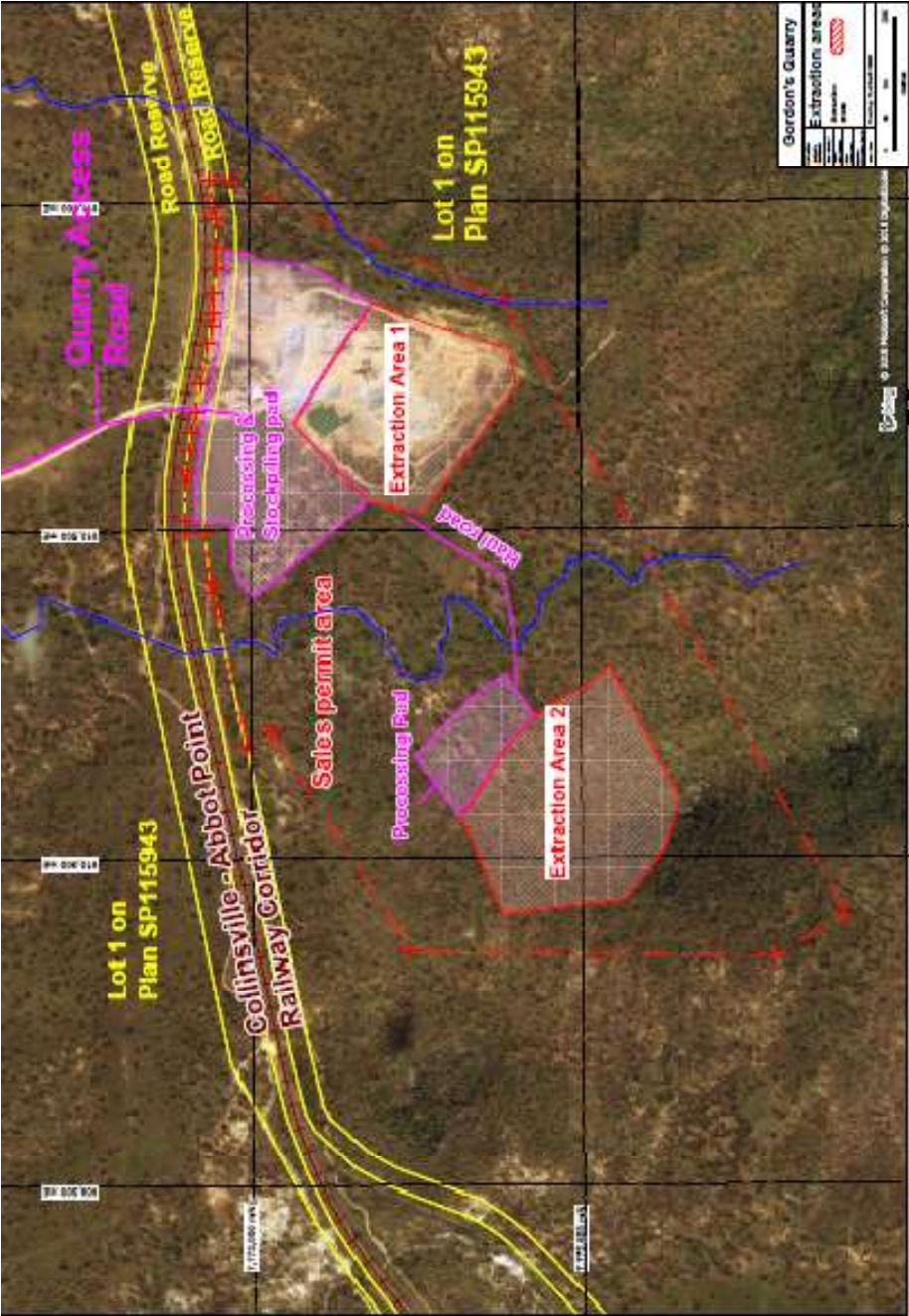
"works" or "operation" means the development approved under this development approval.

"you" means the holder of this development approval or owner / occupier of the land which is the subject of this development approval.

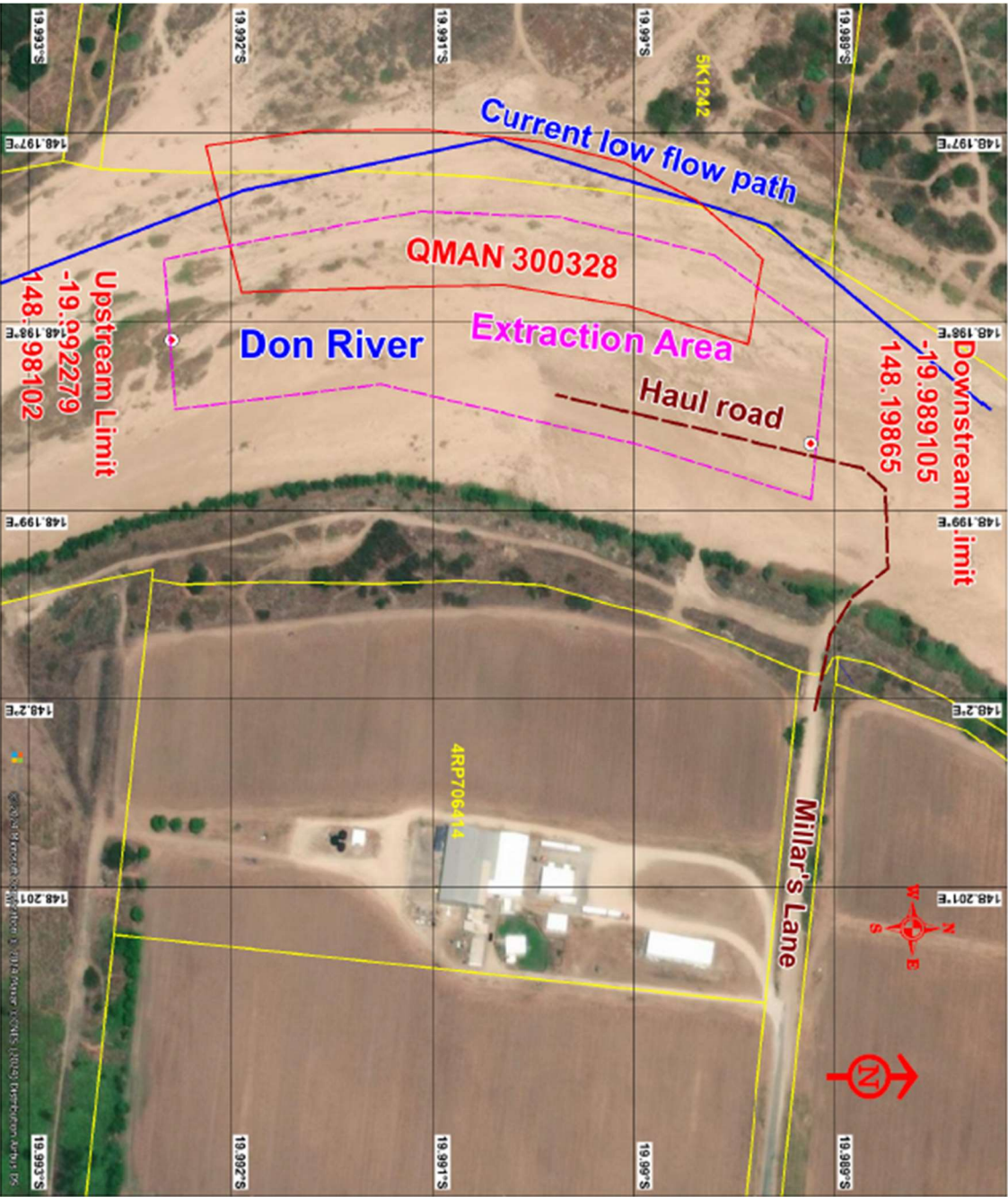
Appendix 1



Appendix 2



Appendix 3 – Millar's Lane Sand Quarry – Don River



Millar's Lane Sand Quarry - Don River

Extraction Area

Cadastral Boundary

Extraction Area

Existing QMAN Area

Haul road

Low Flow path

0 100 metres
Scale 1:2,000

Co-ordinate system:
GDA2020 Lon/Lat

Date: 8/11/2024
Plan No: HIL/DON/App24003

Client: Hillery Group

Compiled by: Mike O'Sullivan

Extractive Industry Solutions

END OF ENVIRONMENTAL AUTHORITY