



Department of
**Environment and
Heritage Protection**

16-SEP-2015

Hy-Tec Industries (Queensland) Pty Ltd
Attention: Harry Clark
PO Box 5023
MAROOCHYDORE BC QLD 4558

Our reference: 240822

Application details

I refer to the application that was received by the administering authority on 10-SEP-2015.

Land description: 1020 Atkinson Dam Road COOMINYA QLD 4311

Lot 79 Plan SP172580; Hermanns Road, Coominya Lot 224 Plan CA31641.

Decision

Your application has been approved and your environmental authority (reference EPPR00497113) is attached.

Additional comments or advice

You are advised that if you are not the owner of the land to which the environmental authority relates, you have 10 business days from receipt of this environmental authority to give each owner of the land, written notice that you have been issued this environmental authority.

Should you have any further enquiries, please contact Permit and Licence Management on telephone 1300 130 372 option 4.

Yours sincerely



Signature

16/09/2015

Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enclosed

Permit - environmental authority (reference EPPR00497113)

Permit¹

Environmental Protection Act 1994

Environmental authority

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

Permit¹ number: EPPR00497113

The anniversary date of this environmental authority remains 10 March.

An annual return and the payment of the annual fee will be due each year on this day.

Environmental authority holder(s)

Name	Registered address
Hy-Tec Industries (Queensland) Pty Ltd	42-48 Fishermans Road MAROOCHYDORE QLD 4558

Environmentally relevant activity and location details

Environmentally relevant activity(ies)	Location(s)
16-(1c) Dredging >100000t but <1000000t yr 16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr 33-Crushing, milling, grinding or screening >5000t yr	1020 Atkinson Dam Road COOMINYA QLD 4311 - Lot 79 Plan SP172580
16-(2b) Extractive >100000t but <1000000t yr	Hermanns Road and Coominya - Lot 224 Plan CA31641

Additional information for applicants

Environmentally relevant activities

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

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

¹ Permit includes licences, approvals, permits, authorisations, certificates, sanctions or equivalent/similar as required by legislation



Contaminated land

It is a requirement of the EP Act that if an owner or occupier of land becomes aware a notifiable activity (as defined in Schedule 3 and Schedule 4) is being carried out on the land, or that the land has been, or is being, contaminated by a hazardous contaminant, the owner or occupier must, within 22 business days after becoming so aware, give written notice to the chief executive.



Signature

16/09/2015

Date

Jodie Brackenbury
Department of Environment and Heritage Protection
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Permit and Licence Management
Department of Environment and Heritage
Protection
GPO Box 2454
BRISBANE QLD 4001
Phone: 1300 130 372
Fax: (07) 3330 5875
Email: palm@ehp.qld.gov.au

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 conditions for this authority have been split into two separate schedules based on the site location. This is explained below.

Environmentally relevant activities	Locations	Relevant conditions
16-(1c) Dredging >100000t but <1000000t yr 16-(2b) Extractive >100000t but <1000000t yr 16-(3b) Screening >100000t but <1000000t yr 33-Crushing, milling, grinding or screening >5000t yr	1020 Atkinson Dam Road COOMINYA QLD 4311 Lot 79 Plan SP172580	Schedule 1
16-(2b) Extractive >100000t but <1000000t yr	Hermanns Road and Coominya Lot 224 Plan CA31641	Schedule 2

SCHEDULE 1 – 1020 Atkinson Dam Road COOMINYA QLD 4311 - Lot 79 Plan SP172580

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
G1	Prevent and/or minimise likelihood of environmental harm. 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.

G2	Site Based Management Plan. 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. Periodic review of environmental performance and continual improvement.
G3	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority or an authorised person when requested.
G4	All records required by this approval must be kept for 5 years.
G5	Notwithstanding any other condition of this approval, the operation of any plant or heavy machinery on the authorised place, including operation for maintenance or warm-up purposes, shall not be permitted: - outside the hours of 6.00 am to 6.00 pm Mondays to Fridays inclusive; - outside the hours of 6.00 am to 3.00 pm on Saturdays; - on Sundays or public holidays.

Agency interest: Air	
Condition number	Condition
Ai1	Nuisance. 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.
Ai2	Dust Nuisance. 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.
Ai3	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 (pm) (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.
Ai4	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 (pm) (PM10) suspended in the atmosphere over a 24hr averaging time.
Agency interest: Land	
Condition number	Condition
L1	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction are commenced.

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.
L3	At least three (3) months prior to ceasing carrying out any of the environmentally relevant activities at the authorised place/s the holder of this approval must prepare and submit a Site Rehabilitation and Decommissioning Report (SRDR) detailing practices and measures necessary to prevent or minimise environmental harm during and after the decommissioning of the environmentally relevant activity/ies whose operation is to be ceased.
L4	The Site Rehabilitation and Decommissioning Report (SRDR) must address the following matters: (i) a rehabilitation plan for the sites taking into account the final use of the land and relevant environmental considerations including but not limited to: - the proposed shaping of the final landform after rehabilitation including an assessment of the stability of all works such as buffer distances and batter slopes; - proposed nature of materials utilised and techniques employed for any proposed backfilling of extracted areas such as filling, compacting, topsoiling, overburden return and any other soil amelioration leading to vegetation establishment; and - a program and timetable for all works proposed. (ii) prevention or treatment of the release of contaminated stormwater runoff from raw material stockpiles and disturbed areas to the bed or banks of any watercourse.
L5	The holder of this approval must take all reasonable and practicable measures necessary to prevent any significant damage to riparian vegetation.
L6	The surface of the area of operation and the bed of the watercourse must be kept at an even longitudinal grade, smooth and free from holes and ridges.
L7	Extraction of material shall not be carried out within 0.5 metres in elevation of the water level designated by the Department of Natural Resources to be the normal water level for that location in Buaraba Creek.

Agency interest: Noise																																																												
Condition number	Condition																																																											
N1	Any noise from the activities must not cause an environmental nuisance at any nuisance sensitive place or commercial place																																																											
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 <table border="1"> <tr> <th rowspan="3">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> <th colspan="6">Noise measured at a 'Noise sensitive place'</th></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> <th colspan="7">Noise measured at a 'Commercial place'</th></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> Note: Bkg — Background Noise Level						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}	Bkg + 5	Bkg + 5	Bkg + 0	Bkg + 5	Bkg + 5	Bkg + 0	L _{A1, adj, 10 mins}	Bkg + 10	Bkg + 10	Bkg + 5	Bkg + 10	Bkg + 10	Bkg + 5	Noise measured at a 'Commercial place'							L _{A10, adj, 10 mins}	Bkg + 10	Bkg + 10	Bkg + 5	Bkg + 10	Bkg + 10	Bkg + 5	L _{A1, adj, 10 mins}	Bkg + 15	Bkg + 15	Bkg + 10	Bkg + 15	Bkg + 15	Bkg + 10
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N3	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance and the results provided within 14 days to the administering authority. Monitoring must include: a) background noise level; b) LA 10, adj, 10 mins; c) LA 1, adj, 10 mins; d) LA max, adj, T; 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.																																																											
N4	The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Resource Management's Noise Measurement Manual.																																																											

Agency interest: Water	
Condition number	Condition
W1	The dredging of material from the bed or banks of Buaraba Creek must only be undertaken for maintenance and rehabilitation purposes.
W2	The holder of this approval must take all reasonable and practicable measures necessary to minimise the generation of any turbidity in Buaraba Creek resulting from the carrying out of the environmentally relevant activities.
W3	Erosion Protection Measures And Sediment Controls. Erosion protection measures and sediment control measures must be implemented and maintained to minimise 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.
W4	For each rainfall event, all reasonable and practicable measures must be taken to ensure that within 72 hours of the cessation of a rainfall event, at least 90% of the design capacity of stormwater treatment ponds are available for capture and storage of stormwater runoff from the next rainfall event. In releasing water from the stormwater treatment ponds all reasonable and practicable measures must be taken to prevent the release of sediment.

SCHEDULE 2 - Hermanns Road and Coominya - Lot 224 Plan CA31641

The environmentally relevant activity(ies) conducted at the location as described above must be conducted in accordance with the following site specific conditions of approval.

Agency interest: General	
Condition number	Condition
A1	In carrying out an activity to which this approval relates, all reasonable and practicable measures must be taken to prevent or to minimise the likelihood of environmental harm being caused.
A2	The operator of an activity 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.
A3	At all times while the activity is operating, at least one person must be present who is responsible for the control and operation of the facility and whose duties must include but not be limited to: a) maintaining the facility; b) controlling all employees working in the facility; and c) supervising all persons entering the facility.

A4	From commencement of an activity 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 activities 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) complaint handling; j) staff training; k) record keeping; l) a site rehabilitation plan — ensuring rehabilitation progress reports are submitted to the administering authority; and m) periodic review of environmental performance and continual improvement.
A5	The SBMP must not be implemented or amended in a way that contravenes any condition of this approval.
A6	Record, compile and keep all monitoring results required by this approval and present this information to the administering authority or an authorised person when requested.
A7	All records required by this approval must be kept for 5 years.
A8	Measures must be taken to prevent unauthorised access to the site to which this approval relates.
A9	Telephone EHP's Pollution Hotline or district office as soon as practicable after becoming aware of any release of contaminants not in accordance with the conditions of this approval or any environmental nuisance complaints received.

A10	A written notice detailing the following information must be provided to the EHP within 14 days of any advice provided in accordance with condition A9: 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.
A11	The person undertaking the activity to which this approval relates must record the following details for all complaints received and provide this information to the administering authority or an authorised person 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.
A12	A suitably qualified person(s) must conduct any monitoring required by this approval.
A13	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.
A14	All instruments, equipment and measuring devices used for measuring or monitoring in accordance with any condition of this approval must be readily available at any given time.
A15	An appropriate spill kit, personal protective equipment and relevant operator instructions/emergency procedure guides for the management of wastes and chemicals associated with the activity to which this approval relates must be kept at the site and accessible to all operators.
A16	Anyone operating under this approval must be trained in the use of the spill kit.

A17	The operator of this activity must ensure that the extractive activity remains within the proposed extraction area estimated 20 year extraction life as shown in Appendix 1 - "Map C".
A18	The bounds of the defined extractive area provided in A17 must be marked or delineated in such a way as to be clearly visible to any person.
A19	The operator of the activity to which this approval relates must ensure that all buffer distances identified in Appendix 1 — "Map C" are maintained as a minimum distance.
A20	Any stockpiles of material stored outside of the defined extractive area must only be stored in the area identified in Appendix 1 - "Map C" as "location of stockpiles".
A21	The operator of the activity to which this approval relates must not extract more than 300,000t of material in any 12 month period.
Agency interest: Air	
Condition number	Condition
B1	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.
B2	The release of dust or particulate matter resulting from the activities must not cause an environmental nuisance at any nuisance sensitive or commercial place.
B3	When requested by the administering authority, monitoring must be undertaken to investigate any environmental nuisance complaint caused by a release to the atmosphere from the approved site.
B4	Subject to condition B5, the dust deposition rate and concentration of PM ₁₀ and PM _{2.5} must not exceed the limits specified in 'Table 2 — Dust deposition rate and concentration of particulate matter limits' for the contaminant when measured from a nuisance sensitive or commercial place.
B5	The method of measurement and reporting of dust or particulate matter must comply with the most recent edition of the Queensland Government's Air Quality Sampling Manual or Australian Standards Measurement methods mentioned in condition B4 'Table 2 — Dust deposition rate and concentration of particulate matter limits'. Note: Any dust or particulate monitoring must also include an 'upwind' sample to determine the contribution of other dust and particulate sources in the area.
B6	The results of monitoring undertaken in accordance with condition B4 and B5 and a report which details an interpretation by a competent person of monitoring results must be submitted to the administering authority within 14 days after the monitoring has been completed.

B7	Stockpiles must be maintained in such a manner as to prevent the release of wind blown dust and particulate matter to the atmosphere. Such measures may include but not be limited to: a) use of water spraying devices; b) use of dust-suppressant shielding/wind breaks/screens; and c) stockpiles located in bunkers..
B8	Trafficable areas must be maintained in such a manner as to prevent the release of wind blown dust or traffic generated dust to the atmosphere. Such measures may include but not be limited to: a) use of water spraying devices; b) sealing any high trafficable areas; c) adopting and adhering to speed limits; and d) use of dust suppressant shielding/wind breaks/screens.
B9	Measures must be implemented to prevent release of windblown dust and loss of material from trucks leaving the approved place. Such measures may include but not be limited to: a) wetting down the load prior to transport; b) the entire load covered appropriately such as a tarpaulin prior to departure; c) cleaning of any spillages on side rails, tail gates and draw bars of trucks prior to departure; and d) driving over rumble drains prior to leaving the approved place.
B10	The only material that is to be used for dust suppression within the site is uncontaminated or clean water from the sedimentation basin or any other onsite dam.
Agency interest: Land	
Condition number	Condition
C1	Contaminants must not be released to land.
C2	The storage of chemicals and fuels must be located within a dedicated bunded area which incorporates appropriate spillage capture devices (i.e. a sump).
C3	All flammable and combustible material storage areas must be designed, constructed and maintained in accordance with AS 1940- Storage and Handling of Flammable and Combustible Liquids.
C4	The total volume of chemicals, including petroleum products, but excluding any petroleum products already in any vehicles, equipment or other plant equipment's onboard fuel tanks, that may be stored on the approved site for a period greater than 24 hours must not exceed 510L.
C5	The maintenance and cleaning of vehicles, equipment or other plant equipment must be carried out in areas where any contaminants are captured and contained such as an on-site containment system to prevent any release of contaminants to land.
C6	Any spillage of wastes, contaminants or other materials to land must be cleaned up as quickly as practicable. Spillages must not be cleaned up in a way that releases wastes, contaminants or other materials to any stormwater drainage systems, roadside gutters or waters.

C7	Rehabilitation of disturbed areas must take place progressively as works are staged and new areas of extraction have commenced. Extractive activities must be undertaken as shown in Appendix 2 "Map E"
C8	Rehabilitation must commence on those areas disturbed by extraction activities, apart from those areas currently being utilised for extraction activities, as soon as practicable but no later than 6 months after the completion of the extraction activities. Rehabilitation of disturbed areas includes slopes, borrow pits, stockpile storage areas, and sedimentation basins in a manner such that: a) all disturbed land is reshaped to a stable landform and is not subject to slumping; b) the potential for erosion is minimised; c) the surface drainage lines are re-established; d) suitable topsoil is reinstated on areas where revegetation is possible; e) suitable vegetation species and density of cover are established which is consistent with the surrounding undisturbed areas or the site's proposed future land use; f) the likelihood of environmental nuisance being caused by release of dust is minimised; g) the quality of stormwater, water and seepage released from the site is such that releases of contaminants do not cause environmental harm; h) the water quality of any residual water bodies such as dams, sedimentation basins must be appropriate for subsequent future land uses and does not cause environmental harm; and i) infrastructure is removed from the site.
C9	Maintenance of rehabilitated areas must take place to ensure: a) erosion control measures remain effective; b) plants show growth; c) any weed infestations are removed and prevented from recurring; d) plants that have not taken, died or have become diseased are removed and disposed of appropriately and replaced as soon as practical; e) significant plant losses are examined for possible causes; and f) the rehabilitated land should be capable of withstanding normal disturbances such as fire or flood.
C10	Complete an investigation into rehabilitation of disturbed areas and submit a site rehabilitation plan to the administering authority no more than six (6) months after the commencement of activities at the approved site. The site rehabilitation plan must include: a) a map of disturbed areas; b) design objectives for rehabilitation of disturbed areas taking into consideration surrounding undisturbed areas and future land use(s) for the site; c) identification of soil characteristics, soil analysis, soil separation at the site; d) detail of rehabilitation methods applied to areas; e) landform design criteria and design plan including end of quarry design and is consistent with the proposed future land use(s); f) identify success criteria for the disturbed areas including revegetation success rate, final landform; g) plan to revegetate areas and corridors; h) describe rehabilitation indicators and the monitoring program to be used; and i) develop a contingency plan for rehabilitation maintenance or redesign.

C11	A rehabilitation progress report must be submitted to the administering authority once every two (2) years which details the status of rehabilitation progress occurring at the site.
Agency interest: Noise	
Condition number	Condition
D1	Any noise from the activities must not cause an environmental nuisance at any nuisance sensitive place or commercial place
D2	All noise from activities must not exceed the levels specified in 'Table 1 - Noise limits', at any nuisance sensitive or commercial place.
D3	When requested by the administering authority, noise monitoring must be undertaken to investigate any complaint of noise nuisance and the results provided within 14 days to the administering authority. Monitoring must include: a) background noise level; b) $L_A 10, \text{adj}, 10 \text{ mins}$; c) $L_A 1, \text{adj}, 10 \text{ mins}$; d) $L_{A \text{ max}}, \text{adj}, T$; 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.
D4	The method of measurement and reporting of noise levels must comply with the latest edition of the Department of Environment and Resource Management's Noise Measurement Manual.
Agency interest: Waste	
Condition number	Condition
E1	Any loss or spillage of regulated wastes must be cleaned up immediately.
E2	Regulated waste must be handled and transferred in a proper and efficient manner to prevent any leakage or spillage of waste

E3	From commencement of the activity to which this approval relates, a waste management program must be implemented. The Waste Management Plan (WMP) must address at least the following matters: a) the types and amounts of waste generated by the activity; b) how the waste will be dealt with, including a description of the types and amounts of waste that will be dealt with under each of the waste management practices mentioned in the waste management hierarchy (section 10 of the <i>Environmental Protection (Waste Management) Policy 2000</i>); c) procedures for identifying and implementing opportunities to improve the waste management practices employed e.g. opportunities for beneficial reuse; d) procedures for dealing with accidents, spills and other incidents that may impact on the waste management; e) details of any accredited management system employed, or planned to be employed, to deal with the waste; f) how often the performance of the waste management practices will be assessed; and g) the indicators or other criteria on which the performance of the waste management practices will be assessed.
E4	The WMP must be submitted to the administering authority for review before the commencement of activities at the approved site.
Agency interest: Water	
Condition number	Condition
F1	Suitable banks or diversion drains must be installed and maintained so that stormwater falling up gradient from any disturbed areas, including extraction and storage areas, is diverted away from entering any ponds or other structures used for the storage or treatment of contaminants or waste.
F2	All waters flowing over disturbed areas, including but not limited to the extraction area and stockpiling areas, must be diverted to an onsite sedimentation basin.
F3	From commencement of the activity to which this approval relates, a Stormwater Management Program must be implemented. The Stormwater Management Plan (SMP) must address at least the following matters: a) reuse, treatment and disposal of contaminated stormwater; b) prevention of incident stormwater and stormwater runoff from contacting wastes, contaminants or disturbed areas; c) diversion of upstream runoff away from areas containing wastes, contaminants or exposed / disturbed earthen surfaces; d) minimisation of the size of contaminated and exposed or disturbed earthen surfaces areas; e) installation of silt and rubbish traps, erosion protection measures, sedimentation basins and stormwater diversion drains; and f) regular maintenance of onsite stormwater management devices such cleaning of silt and rubbish traps, desludging of sedimentation basins.
F4	The SMP must be submitted to the administering authority before the commencement of activities at the approved site.

F5	Minimum design specifications for onsite sediment control measures are as follows: a) the minimum size of any sedimentation basin must be sufficient to contain the contaminated runoff expected from a 24 hour storm with an average recurrence interval of 1 in 10 years; b) water retaining structures must be designed to prevent the influx of surface water from adjacent water courses from a 24 hour storm with an average recurrence interval of 1 in 10 years; c) drainage structures must be sufficient to convey the runoff from a 24 hour storm with an average recurrence interval of 1 in 10 years; d) in the event of site flooding, flow paths must be designed to minimise re-suspension of fines or slimes; and e) all stormwater flow paths must be constructed in such a way as to prevent erosion and scouring.
F6	All sedimentation basins used for the storage or treatment of stormwater at the approved site must be maintained: a) to ensure no release of contaminated water through the bed or banks of the basin to any waters (including ground water); b) so that a freeboard of not less than 0.5 metres is maintained; and c) ensure the stability of the basins' construction.
F7	Contaminants must not be released from the site to any waters or to the bed or banks of any waters
F8	In the event of a discharge of contaminated water from the areas disturbed by the activity to the creek, the person undertaking the activity to which this approval relates must undertake monitoring of the quality characteristics, at the monitoring point locations described and at the frequency specified in 'Table 3 — Water monitoring program'.
F9	Should the interpretation of the water monitoring results described in 'Table 3 — Water monitoring program' and conclusions by an expert in the field of surface water indicate environmental harm has occurred, or that there is an change of greater than 10% of the quality characteristics at the downstream monitoring point over the upstream sampling point, then the person undertaking the activity to which this approval relates must undertake a Water Contaminant Investigation Program (WCIP) within 7 days. The WCIP must incorporate but not be limited to the following: a) ensure all onsite stormwater diversion measures are intact; b) ensure the integrity of any onsite bunding; c) investigate possible points of discharge of stormwater from the area disturbed by the activity; d) investigate the remaining capacity of sediment basin and determine if removal of sediment is necessary; e) determine the remaining freeboard of the sediment basin; and f) investigate stockpiles of material for release to stormwater.
F10	A complete and final report addressing the items identified in condition F9 and the outcome and actions taken as a result of the WCIP must be supplied to the administering authority within 14 days of the investigation taking place.

F11	A complete and final report addressing the items identified in condition F9 and the outcome and actions taken as a result of the WCIP must be supplied to the administering authority within 14 days of the investigation taking place.
F12	Extraction of materials must not occur, or be undertaken, below the depth of 15 m or the sandstone level, whichever is closer to the surface.

Tables

Table 1 - Noise limits

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'					
$L_{A10, adj, 10mins}$	Bkg + 5	Bkg + 5	Bkg + 0	Bkg + 5	Bkg + 5	Bkg + 0
$L_{A1, adj, 10 mins}$	Bkg + 10	Bkg + 10	Bkg + 5	Bkg + 10	Bkg + 10	Bkg + 5
Noise measured at a 'Commercial place'						
$L_{A10, adj, 10mins}$	Bkg + 10	Bkg + 10	Bkg + 5	Bkg + 10	Bkg + 10	Bkg + 5
$L_{A1, adj, 10 mins}$	Bkg + 15	Bkg + 15	Bkg + 10	Bkg + 15	Bkg + 15	Bkg + 10

Note: Bkg — Background Noise Level

Table 2 - Dust deposition rate and concentration of particulate matter limits

Contaminant	Measure	Maximum Limit	Measurement method
Dust	Deposition rate	120 mg/m ² /day	Australian Standard (AS) AS3580.10.1 of 2003 (or more recent editions)
PM ₁₀	Concentration	50pg/m ³ averaged over 24 hours	Either of the following- (a) AS 3580.9.6 of 2003 (or more recent editions); or (b) AS3580.9.7 of 2009 (or more recent editions).
PM _{2.5}	Concentration	25pg/m ³ averaged over 24 hours	Either of the following- (a) AS 3580.9.10 of 2006 (or more recent editions); or (b) AS3580.9.7 of 2009 (or more recent editions).

Note:

- Australian Standard AS 3580.9.6 of 2003 (or more recent editions) Ambient air — Particulate matter — Determination of suspended particulate matter PM₁₀ high volume sampler with size-selective inlet — Gravimetric method.
- Australian Standard AS 3580.9.10 of 2006 (or more recent editions) Ambient air — Particulate matter — Determination of suspended particulate matter PM_{2.5} low-volume sampler — Gravimetric method. Australian Standard AS3580.9.7 of 2009 (or more recent editions) Ambient air — Particulate matter — Determination of suspended particulate matter — Dichotomous sampler (PM₁₀ and PM_{2.5}) — Gravimetric method.

Table 3 - Water monitoring program

Monitoring Point	Quality characteristics	Units	Frequency
MP1 —Buaraba Creek at a location point more than 50m upstream of the discharge	pH	pH	Obtain a single sample as soon as practicable after any discharge event
	Dissolved Oxygen	mg/L	
	Suspended Solids	mg/L	
	Turbidity	NTU	
	Electrical Conductivity	ps/cm	
MP2 —Buaraba Creek at the discharge location point	pH	pH	Obtain a single sample as soon as practicable after any discharge event
	Dissolved Oxygen	mg/L	
	Suspended Solids	mg/L	
	Turbidity	NTU	
	Electrical Conductivity	ps/cm	
MP3 —Buaraba Creek at a location point more than 50m downstream of the discharge	pH	pH	Obtain a single sample as soon as practicable after any discharge event
	Dissolved Oxygen	mg/L	
	Suspended Solids	mg/L	
	Turbidity	NTU	
	Electrical Conductivity	ps/cm	

Definitions

Key terms and/or phrases used in this document are defined in this section and **bolded** throughout this document. 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.

"administering authority" means the Department of Environment and Heritage Protection 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 *Sustainable Planning Act 1997*.

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

"background noise level" means either:

- **LA₉₀, T** being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response, or
- **LA₉₀, T** being the arithmetic average of the minimum A-weighted sound pressure level readings measured in the absence of the noise under investigation during a representative time period of not less than 15 minutes, using Fast response.

"commercial place" means a place, other than a nuisance sensitive place, used as 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.

"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.

"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.

"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.

"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.

"L_Amax, 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.

"noxious" means harmful or injurious to health or physical well being.

"nuisance sensitive place" includes —

- a dwelling 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 2004* or a World Heritage Area; and
- a public thoroughfare, park or gardens.

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

"PM₁₀" means particles in the air environment with an equivalent aerodynamic diameter of not more than 10 microns

"PM_{2.5}" means particles in the air environment with an equivalent aerodynamic diameter of not more than 2.5 microns

"protected area" means —

- a protected area under the *Nature Conservation Act 1992*; or
- a marine park under the *Marine Parks Act 2004*; 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.

"regulated waste" means non-domestic waste mentioned in Schedule 7 of the *Environmental Protection Regulation 2008* (whether or not it has been treated or immobilised), and includes -

- for an element - any chemical compound containing the element; and
- anything that has contained the waste.

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

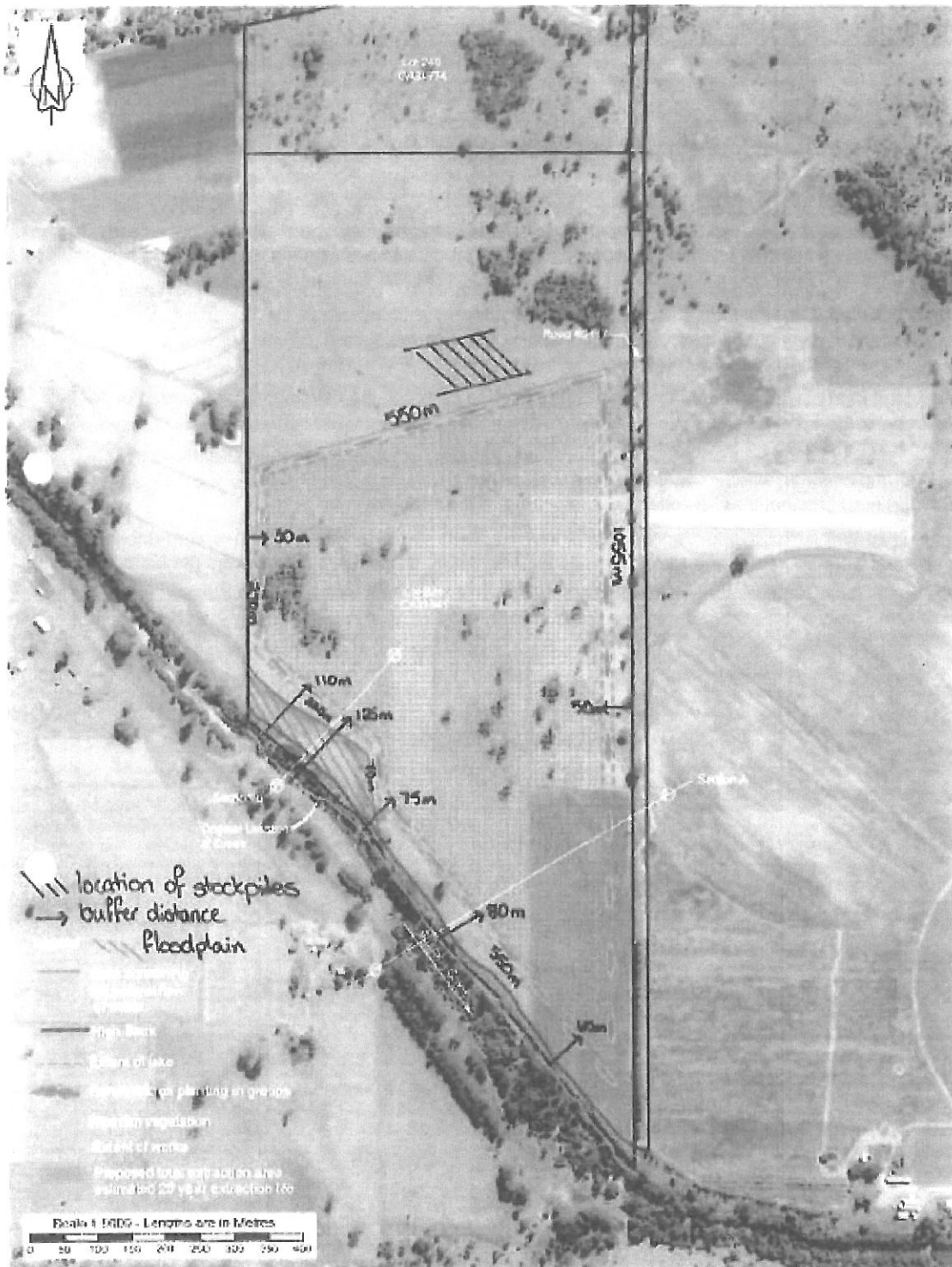
"watercourse" means a river, creek or stream in which water flows permanently or intermittently-

- 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.

END OF PERMIT

Appendix 1 – “Map C”:



Appendix 2 – “Map E”:

