

Attachment 2

Current EA

Permit

Environmental Protection Act 1994

Environmental authority EPPR00540113

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

Environmental authority number: EPPR00540113

Environmental authority takes effect on 12 August 2020

Environmental authority holder(s)

Name(s)	Registered address
NEILSENS QUALITY GRAVELS PTY. LTD.	Johnstone Road BRENDALE QLD 4500 Australia

Environmentally relevant activity and location details

Environmentally relevant activity/activities	Location(s)
ERA 16 - Extraction and Screening 2: Extracting, other than by dredging, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t	Lot 1 on RP98576
ERA 16 - Extraction and Screening 3: Screening, in a year, the following quantity of material (b) more than 100,000t but not more than 1,000,000t	Lot 1 on RP98576

Additional information for applicants

Environmentally relevant activities

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

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

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

Contaminated land

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

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

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

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

Take effect

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

- a) if the authority is for a prescribed ERA and it states that it takes effect on the day nominated by the holder of the authority in a written notice given to the administering authority-on the nominated day; or
- b) if the authority states a day or an event for it to take effect-on the stated day or when the stated event happens; or
- c) otherwise-on the day the authority is issued.

However, if the EA is authorising an activity that requires an additional authorisation (a relevant tenure for a resource activity, a development permit under the *Planning Act 2016* or an SDA Approval under the *State Development and Public Works Organisation Act 1971*), this EA will not take effect until the additional authorisation has taken effect.

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

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

Clancy Mackaway
Department of Environment and Science
Delegate of the administering authority
Environmental Protection Act 1994

Enquiries:
Extraction, Energy and Chemical Industries
Assessment
Department of Environment and Science

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Date issued: 21 October 2020

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

Agency interest: General	
Condition number	Condition
G1	A copy of this environmental authority must be kept in a location readily accessible to personnel carrying out the activity.
G2	<p>No change, replacement or operation of any plant or equipment is permitted if the change, replacement or operation of the plant or equipment increases, or is likely to substantially increase, the risk of environmental harm above that expressly provided by this environmental authority.</p> <p>An example of a substantial increase in the risk of environmental harm is an increase of ten percent (10%) or more in the quantity of the contaminant to be released into the environment.</p>
G3	Any record or document required to be kept by a condition of this environmental authority must be kept at the premises to which this environmental authority relates for a period of at least five (5) years and be available for examination by an authorised person. The record retention requirements of this condition will be satisfied if any daily and weekly records are kept for a period of at least three (3) years and these records are then kept in the form of annual summaries after that period.
G4	On commencement of the activity, the holder of this environmental authority must implement an effective and appropriate Site-based Management Plan which details how the holder of this environmental authority will manage the actual and potential environmental impacts resulting from the carrying out of the environmentally relevant activity.
G5	<p>The Site-based Management Plan must address at least the following matters:</p> <ul style="list-style-type: none"> (i) routine operating procedures to prevent or minimise environmental harm, however occasioned or caused during normal operations; (ii) maintenance practices and procedures; (iii) contingency plans and emergency procedures to deal with foreseeable risks and hazards including corrective responses to prevent and mitigate environmental harm (including any necessary site rehabilitation); (iv) monitoring of the release of contaminants into the environment including procedures, methods, record keeping and notification of results; (v) assessment of the environmental impact of any releases of contaminants into the environment including procedures, methods, record keeping and notification of results; (vi) handling of environmental complaints; (vii) keeping and production of environmental records and reports; (viii) lines and methods of communication to be utilised for communication of procedures, plans, incidents, potential environmental problems and results, including a feedback mechanism to ensure that management is made aware of potential environmental problems and any failure of procedures adopted; (ix) staff training and awareness of environmental issues related to the operation of the environmentally relevant activities, including responsibilities under the <i>Environmental</i>

	<p><i>Protection Act 1994</i>; and</p> <p>(x) update the Site-Based Management document following any changes implemented.</p>
G6	An up-to-date copy of the Site-Based Management Plan must be kept at the premises to which this environmental authority relates and be readily accessible to personnel that are carrying out the environmentally relevant activity.
G7	<p>The holder of this environmental authority must rehabilitate the premises in a manner such that:</p> <p>(i) any revegetation or landscaping works must be undertaken using appropriate species of vegetation with preference being given to native species endemic to the area are planted and established; and</p> <p>(ii) potential for erosion of the site is minimised; and</p> <p>(iii) the quality of stormwater released from the site is such that releases of suspended solids, and turbidity are not likely to cause environmental harm in the receiving waters; and</p> <p>(iv) the likelihood of environmental nuisance being caused by release of dust is minimised; and</p> <p>(v) the final landform is stable and not subject to slumping; and</p> <p>(vi) access to areas being rehabilitated must be restricted.</p>
G8	Rehabilitation of disturbed areas must take place progressively as stages of works are finalised and new areas of extraction are commenced within the premises to which this environmental authority relates (refer to drawing numbers: 740.013 - Stage 1 Development; 740.014 - Stage 2 Development; 740.015 - Stage 3 Development; and 740.016 - Stage 4 Development), as specified in <i>Appendices 1 – 4</i> of this environmental authority (refer "Development Proposal Report, Bromelton Quarry", prepared by Kershaw and Co., September 2000).
G9	The final rehabilitation of the site must comply with drawing number 740.019 "Long Term Rehabilitation Concept", as specified in <i>Appendix 5 - Long Term Rehabilitation Concept</i> of this environmental authority (refer "Development Proposal Report, Bromelton Quarry", prepared by Kershaw and Co., September 2000).
G10	The holder of this environmental authority must keep appropriate records of rehabilitation measures implemented including taking of photographs demonstrative of rehabilitation achieved and submit a report to the administering authority with each annual return detailing the outcomes of the rehabilitation program in the preceding twelve (12) months.
Agency interest: Air	
Condition number	Condition
A1	Dust or particulate matter that will have or is likely to have an adverse effect on people living in or using the surrounding area shall not be permitted to emanate beyond the boundaries of the premises to which this environmental authority relates.
A2	<p>There must be no release of dust and/or particulate matter:</p> <p>(i) that causes dust deposition, monitored in accordance with Australian Standard AS 3580.10.1 of 1991, to exceed one hundred and twenty (120) milligrams per square meter per day beyond the boundary of the premises to which this environmental authority relates;</p>

	<p>nor</p> <p>(ii) that causes the concentration of particulate matter with an aerodynamic diameter less than ten (10) micrometre (μm) (PM_{10}) suspended in the atmosphere downwind and beyond the boundary of the premises to which this environmental authority relates to exceed one hundred and fifty (150) micrograms per cubic metre over a twenty four (24) hour averaging time, when monitored in accordance with Australian Standard AS 3580.9.6 `Ambient air - Particulate matter - Determination of suspended particulate PM_{10} high - volume sampler with size-selective inlet - Gravimetric method" or an alternate method for PM_{10} permitted in the "Air Quality Sampling Manual" published by the Department of Environment first edition, November 1997, or more recent editions or supplements to that document as such become available.</p>
A3	<p>The holder of this environmental authority must take all reasonable and practicable measures necessary to prevent and/or minimise the release of particulate matter and dust to the atmosphere from extractive operations. Reasonable and practicable measures may include but are not limited to:</p> <ul style="list-style-type: none"> (i) limiting topsoil/overburden removals at any one time to that necessary while providing for effective production of quarry rock; and (ii) limiting removal of topsoil/overburden to periods of favourable weather conditions or maintaining materials in a damp state to avoid dust generation and propagation; and (iii) progressive rehabilitation during the life of the operation; and (iv) designing blast to prevent venting; and (v) installing effective dust collectors at blast hole drilling rigs; and (vi) dampening down of quarry working areas.
A4	<p>The holder of this environmental authority must take all reasonable and practicable measures necessary to prevent and/or minimise the release of particulate matter and dust to the atmosphere from crushing, screening and conveying equipment. Reasonable and practicable measures may include but are not limited to:</p> <ul style="list-style-type: none"> (i) enclosure or shielding of conveyors; and (ii) the installation of windshields or barriers to suppress dust emissions; and (iii) keeping the material in a moist state; and (iv) use of water sprays at transfer points.
A5	<p>Stockpiles must be maintained using all reasonable and practicable measures necessary to minimise the release of wind blown dust or particulate matter to the atmosphere. Reasonable and practicable measures may include but are not limited to:</p> <ul style="list-style-type: none"> (i) use of waterspray as required during winds likely to generate such releases; (ii) use of dust-suppressant shielding; and (iii) storage in bunkers; and (iv) covering with tarpaulins.
A6	<p>Trafficable areas must be maintained using all reasonable and practicable measures necessary to minimise the release of wind blown dust or traffic generated dust to the atmosphere. Reasonable and practicable measures may include but are not limited to:</p> <ul style="list-style-type: none"> (i) keeping surfaces clean;

	<ul style="list-style-type: none"> (ii) sealing with bitumen or other suitable material; (iii) using water sprays; (iv) adopting and adhering to speed limits; and (v) using dust suppressants and wind breaks.
A7	Any spillages of material onto sealed areas, as a result of delivery or handling, must be cleaned up without delay into storage bins or other suitable receptacles.
A8	The tailgates of all trucks leaving the premises to which this environmental authority relates must be securely fixed prior to loading to prevent loss of material.
A9	<p>The holder of this environmental authority must take all reasonable and practicable measures necessary to prevent spillage and/or loss of particulate matter or windblown dust from trucks used for transporting extracted material from the premises to which this environmental authority relates. The reasonable and practicable measures may include but are not limited to:</p> <ul style="list-style-type: none"> (i) wetting down the load prior to transport; and (ii) having the entire load covered with a tarpaulin or similar material for the duration of transport; and (iii) clearing of spillage from side rails, tail gates and draw bars of trucks prior to departure from the premises to which this environmental authority relates and prior to departure from the premises to which this environmental authority relates to which the load has been delivered.
A10	Vehicle tyres and under bodies must be sufficiently free of dust and mud, including by being washed and/or cleaned prior to leaving the premises to which this environmental authority relates if necessary, so as to ensure that dust and/or mud is not deposited on any public road by vehicles leaving the premises to which this environmental authority relates.
A11	Notwithstanding development conditions A8, A9 or A10 if material is deposited on any public road by vehicles leaving the premises to which this environmental authority relates, clean-up of such material should occur immediately.
A12	All disturbed areas must be revegetated as soon as practicable on the completion of extraction operations.
Agency interest: Land	
Condition number	Condition
L1	There must be no release or the likelihood of release of any contaminants to land that may cause environmental harm or contribute to contamination of the land.
Agency interest: Acoustic	
Condition number	Condition

N1	<p>In the event of a complaint about noise that constitutes intrusive noise being made to the administering authority, that the administering authority considers is not frivolous or vexatious, then the emission of noise from the premises to which this environmental authority relates must not result in levels greater than those specified in <i>Table 1 – Noise Limits</i>.</p> <p>Table 1 – Noise Limits</p> <table border="1" data-bbox="371 499 1417 880"> <thead> <tr> <th data-bbox="371 499 587 562"></th> <th data-bbox="587 499 874 562">7am–6pm</th> <th data-bbox="874 499 1139 562">6pm–10pm</th> <th data-bbox="1139 499 1417 562">10pm–7am</th> </tr> </thead> <tbody> <tr> <td data-bbox="371 562 587 624"></td> <td colspan="3" data-bbox="371 562 1417 624">Noise measured at the sensitive place</td> </tr> <tr> <td data-bbox="371 624 587 719">L_{Amax}, adj, T</td> <td data-bbox="587 624 874 719">Background noise level plus 5 dB(A)</td> <td data-bbox="874 624 1139 719">Background noise level plus 5 dB(A)</td> <td data-bbox="1139 624 1417 719">Background noise level plus 3 dB(A)</td> </tr> <tr> <td data-bbox="371 719 587 784"></td> <td colspan="3" data-bbox="371 719 1417 784">Noise measured at the commercial place</td> </tr> <tr> <td data-bbox="371 784 587 880">L_{Amax}, adj, T</td> <td data-bbox="587 784 874 880">Background noise level plus 10 dB(A)</td> <td data-bbox="874 784 1139 880">Background noise level plus 10 dB(A)</td> <td data-bbox="1139 784 1417 880">Background noise level plus 8 dB(A)</td> </tr> </tbody> </table>		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)
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N2	All blasting must be carried out in a proper manner by a competent person in accordance with best practice environmental management to minimise the likelihood of adverse effects being caused by the impact of airblast overpressure and ground borne vibrations on sensitive premises and people living in or using the surrounding area.																				
N3	<p>Blasting activities must be carried out in such a manner that if blasting noise should propagate to a noise-sensitive place, then</p> <p>(i) the blast overpressure must be not more than 115 dB (linear peak) for four (4) out of five (5) consecutive blasts; and</p> <p>(ii) the ground vibration must be:</p> <ul style="list-style-type: none"> • for vibrations of more than 35 Hz-not more than twenty five (25) millimetres per second ground vibration, peak particle velocity; and • for vibrations of not more than 35 Hz-not more than 10 (10) millimetres per second ground vibration, peak particle velocity. 																				
N4	The ground-borne vibration transducer (or array) must be attached to a mass of at least 30kg to ensure good coupling with the ground where the blast site and measurement site cannot be shown to be on the same underlying strata. The mass shall be buried so that its upper most surface is at the same level as the ground surface.																				
N5	The ground-borne vibration transducer (or array) must be placed at a distance of at least the longest dimension of the foundations of a noise-affected building or structure away from such building or structure between that building or structure and the site of the blasting.																				
Agency interest: Water																					
Condition number	Condition																				
WA1	Contaminants must not be directly or indirectly released from the premises to which this environmental authority relates to any waters or the bed and banks of any waters except to a sewer as permitted or otherwise agreed from time to time by the relevant Local Government.																				

WA2	<p>Except as otherwise provided by the conditions of this environmental authority, the environmentally relevant activity must be carried out by such practicable means necessary to prevent and/or minimise the release or likelihood of release of contaminated runoff from the premises to which this environmental authority relates to any stormwater drain or waters or the bed or banks of any such waters.</p> <p>"Contaminated runoff" for the purposes of this condition means stormwater and/or stormwater runoff that contains contaminants that may cause environmental harm.</p>
WA3	<p>All contaminated stormwater runoff from the stockpile(s) and the areas utilised for the operation of the stockpile(s) and processing areas must be collected and treated in the sediment ponds.</p>
WA4	<p>Erosion control and sediment control structures must be maintained at all times during the periods of operation or rehabilitation and checked, repaired or replaced as required after each rain event.</p>
WA5	<p>Diversion drains, appropriate drainage grades or equivalent must be installed to ensure surface waters from disturbed areas, including operational or trafficable areas, are diverted to the sediment control system(s).</p>
WA6	<p>All contaminated stormwater/wastewater runoff from the stockpiles and the areas utilised for the operation of the stockpiles must be directed to the sediment control system(s).</p>
WA7	<p>Drainage through and from all trafficable areas and production activities must be designed to minimise surface flow velocities.</p>
WA8	<p>All sedimentation ponds used for the storage or treatment of contaminated stormwater / wastewater must be installed and maintained to prevent any discharge through the bed or banks of the pond to any waters (including groundwater).</p>
WA9	<p>Reasonable and practicable measures must be taken to prevent short-circuiting in sedimentation pond(s) and the sediment control system(s).</p> <p>Reasonable and practicable measures for ensuring that water does not short circuit within an individual pond include:</p> <ul style="list-style-type: none"> (i) ensuring relatively uniform velocities through the pond; and (ii) ensuring that the pond inlet and outlet are located at opposite ends of the pond along the long axis; and (iii) ensuring that the ponds are periodically desludged to maintain efficiency in the settlement of solids; and (iv) ensuring that sufficient capacity is available within the pond system such that stormwater flows do not flush out settled solids; and (v) ensuring that there are no obstructions, such as vegetation, within the pond, that materially alters the velocities of water flowing through the different sections of the pond.
WA10	<p>Sediment collected in sedimentation ponds must be removed whenever the volume of the basin is reduced by thirty percent (30%), or on other occasions as required by the administering authority, such as where sediments are contaminated, or where a build-up of sediments has occurred or may occur around the outlet structure.</p>

WA11	Any ponds used for the storage or treatment of contaminated stormwater/wastewater must be installed and maintained so that there is a freeboard of not less than 0.5 metre, whenever reasonable or practicable.
WA12	The freeboard specified in (WA11) must be reinstated as soon as practicable after a rainfall event.
WA13	A sediment control system (e.g.: pond(s) used for the storage or treatment of contaminated stormwater/wastewater) must be maintained on the site at all times the environmentally relevant activities are carried out and until all remaining disturbed areas are stabilised, by for example rehabilitation.
WA14	The maintenance and cleaning of vehicles and any other equipment or plant must be carried out in areas from where contaminants cannot be released into any waters, roadside gutter or external stormwater drainage system.
WA15	Any spillage of wastes, contaminants or other materials must be cleaned up as quickly as practicable. Such spillage must not be cleaned up by hosing, sweeping or otherwise releasing such wastes, contaminants or material to any stormwater drainage system, roadside gutter or waters.
WA16	Contaminated water from the truck washing area containing oily contaminants must be directed to an oil/water separator and then to the sediment ponds.
WA17	The oil/water separator and the sediment ponds must be installed and maintained by the holder of this environmental authority to prevent or minimise the release of contaminants to any waters.
WA18	All chemical tank storage and fuel tank storage must be bunded so that the capacity of the bund is sufficient to contain at least 100% of the largest storage tank plus 10% of the second largest tank within the bund.
WA19	All chemical drum storage must be bunded so that the capacity of the bund is sufficient to contain at least one hundred percent (100%) of the largest container plus twenty five percent (25%) of the storage capacity up to 10,000 litres, together with ten percent (10%) of the storage capacity beyond 10,000 litres.
WA20	All bunding must be constructed and maintained so as to be impervious to the materials stored to allow retention and recovery of any materials being contained within the bund.
WA21	All bunded areas must be roofed where practicable.
WA22	Where it is impractical to completely roof a bunded area the holder of this environmental authority must ensure that any stormwater captured within the bund is free from contaminants or wastes prior to any release.
WA23	All used empty drums, if stored externally or unroofed, must be stored on a concrete hardstand area or similar impervious material with their closures in place.
Agency interest: Waste	

Condition number	Condition
W1	<p>Except as provided for by the conditions of this environmental authority, the holder of this environmental authority must not:</p> <ul style="list-style-type: none"> (i) burn waste at or on the premises to which this environmental authority relates; nor (ii) allow waste to burn or be burnt at or on the premises to which this environmental authority relates; nor (iii) remove waste from the premises to which this environmental authority relates and burn such waste elsewhere other than an appropriate licensed waste disposal facility that can lawfully burn such waste.
W2	<p>All transport of regulated waste generated in carrying out the environmentally relevant activity must be transported by a proper and appropriate licensed waste transporter that can lawfully transport such waste.</p>
W3	<p>All disposal of regulated waste generated in carrying out the environmentally relevant activity must be to a proper and appropriate licensed waste disposal facility that can lawfully accept such waste or to a facility that can lawfully and appropriately reuse and/or recycle such waste, except as specifically provided for under the conditions of this environmental authority.</p>
W4	<p>Where regulated waste is removed from the premises to which this environmental authority relates (other than by a release as permitted under this environmental authority), the holder of this environmental authority must monitor and keep records of the following:</p> <ul style="list-style-type: none"> (a) the date, quantity and type of waste removed; (b) the name of the waste transporter and/or disposal operator that removed the waste; and (c) the intended treatment/disposal destination of the waste. <p>(NOTE: Records of documents maintained in compliance with a waste tracking system established under the <i>Environmental Protection Act 1994</i> or any other law for regulated waste will be deemed to satisfy this condition.)</p>
W5	<p>If the holder of this environmental authority becomes aware that a person has removed regulated waste from the premises to which this environmental authority relates and disposed of the regulated waste in a manner which is not authorised by this environmental authority or is improper or unlawful, then the holder of this environmental authority must, as soon as practicable, notify the administering authority of all relevant facts, matters and circumstances known concerning the disposal.</p>
Agency interest: Self Monitoring and Reporting	
Condition number	Condition
M1	<p>All complaints received by the holder of this environmental authority relating to releases of contaminants from operations at the premises to which this environmental authority relates must be recorded in a log and kept with the following details:</p> <ul style="list-style-type: none"> (i) time, date and nature of complaint;

	<ul style="list-style-type: none"> (ii) type of communication (telephone, letter, personal etc.); (iii) name, contact address and contact telephone number of complainant (Note: if the complainant does not wish to be identified then "Not identified" is to be recorded); (iv) response and investigation undertaken as a result of the complaint; (v) name of person responsible for investigating complaint; and (vi) action taken as a result of the complaint investigation and signature of responsible person.
M2	In the event of a complaint about dust the holder of this environmental authority must undertake monitoring of ambient air for particulates to investigate such a complaint upon written request from the administering authority.
M3	In carrying out an investigation as a result of a complaint referred to in Condition M2, sampling must be undertaken at appropriate locations to determine the impact of particulates at the locations allegedly affected by the particulates. The selection of monitoring point(s) must be specific to the location of the complaint but must include upwind location(s) and relevant potentially impacted location(s).
M4	In carrying out an investigation as a result of a complaint referred to in Condition M2, analysis of dust deposition samples must be carried out monthly for a period of not less than three months in a year. Dust samples must be analysed for the following: <ul style="list-style-type: none"> (i) total water insoluble dust in milligrams; and (ii) dust fallout in milligrams/square metre/day.
M5	In carrying out an investigation as a result of a complaint referred to in Condition M2, a representative number of samples must be collected for the determination of ambient air suspended particulate matter with aerodynamic diameter less than 10 micrometre (μm).
M6	The samples must be collected and analysed in accordance with the requirements of Australian Standard AS 3580.10.1 -1991 "Determination of particulates -Deposited matter - Gravimetric method' for the dust deposition; and Australian Standard AS 3580.9.6 "Ambient air - Particulate matter - Determination of suspended particulate PM10 high-volume sampler with size-selective inlet -Gravimetric Method" for the suspended particulate matter with aerodynamic diameter less than 10 micrometre (μm); or an alternative method permitted in the "Air Quality Sampling Manual" published by the Department of Environment first edition, November 1997, or more recent editions or supplements to that document as such become available.
M7	All measurement and reporting of particulates in ambient air must be performed by a person or body possessing appropriate experience and qualifications to perform the required measurements.
M8	For the purposes of investigating complaint of noise annoyance and for checking compliance with conditions N1, N3 and N5, monitoring of the noise levels and ground vibration from the environmentally relevant activities must be undertaken for at least the following descriptors, characteristics and conditions: <ul style="list-style-type: none"> (i) $L_{Amax, adj, T}$ (ii) $L_{A90, T}$ (or $L_{A90, T}$); (iii) $L_{AN, T}$ (where N equals statistical levels of 1, 10, 50, 90 and 99); (iv) $Max L_{pA, T}$;

	<p>(v) $L_{Aeq, T}$;</p> <p>(vi) The level and frequency of occurrence of impulsive or tonal noise;</p> <p>(vii) Atmospheric conditions including temperature, relative humidity and wind speed and direction;</p> <p>(viii) Effects due to extraneous factors such as traffic noise;</p> <p>(ix) Overpressure level (dB linear peak) (for blast monitoring only);</p> <p>(x) Peak particle velocity (for ground vibration monitoring only); and</p> <p>(xi) Location, date and time of recording.</p>
M9	In the event of a complaint about noise, the holder of this environmental authority must undertake monitoring of noise to investigate such a complaint upon written request from the administering authority to carry out such monitoring.
M10	<p>The following information must be recorded in conjunction with the measurement and recording of the noise:</p> <p>(i) location of monitoring point(s); and</p> <p>(ii) date monitoring undertaken; and</p> <p>(iii) time monitoring commenced and ceased.</p>
M11	The method of measurement and reporting of noise levels must comply with the Environment Protection Agency's Noise Measurement Manual, Third Edition, March 2000, or more recent additions or supplements to that document as become available.
M12	The measurement and reporting of noise levels must be undertaken by a person or company possessing appropriate experience and qualifications to perform the required measurements.
M13	<p>For the purpose of checking compliance with condition N3 of this environmental authority, monitoring and recording of airblast overpressure level (dB linear peak) from blasting must be undertaken for each blast at the monitoring points described as:</p> <ul style="list-style-type: none"> - Residence R1 as located in Appendix 6 - Noise Monitoring Locations - Blasting and Ground Vibration; and - Residence R2 as located in Appendix 6 - Noise Monitoring Locations - Blasting and Ground Vibration. <p>Provided that owners and occupants of residences R1 and R2 give written permission for the holder of this environmental authority to enter upon their land for monitoring and recording airblast overpressure.</p>
M14	<p>For the purpose of checking compliance with condition F5 of this environmental authority, monitoring and recording of peak particle velocity from blasting must be undertaken for each blast at the monitoring points described as:</p> <ul style="list-style-type: none"> - Residence R1 as located in Appendix 6 - Noise Monitoring Locations – Blasting and Ground Vibration; and - Residence R2 as located in Appendix 6 - Noise Monitoring Locations - Blasting and Ground Vibration.

	Provided that owners and occupants of residences R1 and R2 give written permission for the holder of this environmental authority to enter upon their land for monitoring and recording of peak particle velocity from blasting.
M15	<p>A record must be maintained of events including but not limited to:</p> <ul style="list-style-type: none"> (i) the time, date and duration of equipment malfunctions, that may affect the environmental performance of the premises to which this environmental authority relates; and (ii) any shut-downs of equipment upon which the environmental performance of the premises to which this environmental authority relates depends; and (iii) any emergency involving the release of contaminants reasonably likely to cause material or serious environmental harm requiring the use of firefighting equipment.
M16	Where the holder of this environmental authority has not given notification to the administering authority under section 320 the <i>Environmental Protection Act 1994</i> , as soon as practicable after becoming aware of any emergency or incident which results in the release of contaminants not in accordance, or reasonably expected to be not in accordance with the conditions of this environmental authority, the holder of this environmental authority must notify the administering authority of the release by telephone or facsimile.
M17	<p>Where the holder of this environmental authority has not given notification to the administering authority under section 320 the <i>Environmental Protection Act 1994</i>, the notification of emergencies or incidents as required by condition M16 must include but not be limited to the following:</p> <ul style="list-style-type: none"> (i) the holder of the environmental authority; (ii) the location of the emergency or incident; (iii) the number of the environmental authority; (iv) the name and telephone number of the designated contact person; (v) the time of the release; (vi) the time the holder of the environmental authority became aware of the release; (vii) the suspected cause of the release; (viii) the environmental harm caused, threatened, or suspected to be caused by the release; and (ix) actions taken to prevent further any release and mitigate any environmental harm caused by the release.
M18	<p>Where the holder of this environmental authority has not given notification to the administering authority under section 320 of the <i>Environmental Protection Act 1994</i>, not more than fourteen (14) days following the initial notification of an emergency or incident, the holder of the environmental authority must provide written advice of the information supplied in accordance with condition M17 in addition to:</p> <ul style="list-style-type: none"> (i) proposed actions to prevent a recurrence of the emergency or incident; (ii) outcomes of actions taken at the time to prevent or minimise environmental harm; and (iii) the results of any environmental monitoring performed.
M19	The holder of this environmental authority must ensure that the results of all monitoring performed in accordance with this environmental authority for the period covered by the annual return must be kept at the premises to which this environmental authority relates.

M20	The holder of this environmental authority must notify the administering authority in writing within twenty-eight (28) days of completion of analysis of any result of a monitoring program required by a condition of this environmental authority that indicates an exceedance of any limit specified in this environmental authority.
M21	The written notification required by condition H20 must include: <ul style="list-style-type: none">(i) the full analysis results;(ii) details of investigation or corrective actions taken; and(iii) any subsequent analysis

Definitions

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.

Act means the *Environmental Protection Act 1994*.

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

Land in the land conditions of this environmental authority means land excluding waters and the atmosphere.

Authorised person means an authorised person as defined under the *Environmental Protection Act 1994*.

Holder means the owner, the owners successors in title and any occupier of the premises to which this environmental authority relates [*Integrated Planning Act 1997*, Section 3.5.28].

Annual Return means the return required by the annual notice (under section 316 the *Environment Protection Act, 1994*) for the section 86(2) licence that applies to the environmental authority.

Commencement for this environmental authority means the first day that the activity become operational.

Air

AS3580.10 means Australian Standard AS3580.10 - 1991 "Methods for sampling and analysis of ambient air - Determination of particulates - Deposited matter -Gravimetric method".

AS 3580.9.6 means Australian Standard AS 3580.9.6 "Ambient air - Particulate matter - Determination of suspended particulate PK° high-volume sampler with size-selective inlet - Gravimetric Method".

Water

Waters includes the bed and/or banks of any water(s), stormwater runoff and any part of a river, stream, lake, lagoon, pond, dam, swamp, wetland, unconfined surface water, underground water, unconfined water, natural or artificial watercourse, non-tidal or tidal waters (including the sea), stormwater channel, stormwater drain, roadside gutter.

Release of a contaminant into the environment includes -

- (a) to deposit, discharge, emit or disturb the contaminant;
- (b) to cause or allow the contaminant to be deposited, discharged, emitted or disturbed;
- (c) to fail to prevent the contaminant from being deposited, discharged, emitted or disturbed;
- (d) to allow the contaminant to escape; and
- (e) to fail to prevent the contaminant from escaping.

Noise

Background noise level means $L_{A90,T}$ being the A-weighted sound pressure level exceeded for 90 percent of the time period of not less than 15 minutes, using Fast response.

$L_{Amax,adj,T}$ means the average maximum A-weighted sound pressure level, adjusted for noise character and measured over a time period of not less than 15 minutes, using Fast response.

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

Noise sensitive place means -

- (a) a dwelling, mobile home or caravan park, residential marina or other residential premises; or
- (b) a motel, hotel or hostel; or

- (c) a kindergarten, school, university or other educational institution; or
- (d) a medical centre or hospital; or
- (e) a protected area; or
- (f) a public park or gardens.

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

Intrusive noise means noise that, because of its frequency, duration, level, tonal characteristics, impulsiveness or vibration -

- (a) is clearly audible to, or can be felt by, an individual; and
- (b) annoys the individual.

in determining whether a noise annoys an individual and is unreasonably intrusive, regard must be had to Australian Standard 1055.2 - 1997 Acoustics - Description and Measurement of Environmental Noise Part 2 - Application to Specific Situations

Protected area means -

- (a) a protected area under the *Nature Conservation Act 1992*; or
- (b) a marine park under the *Marine Parks Act 2004*; or
- (c) a World Heritage Area.

Dwelling means any of the following structures or vehicles that is principally used as a residence:

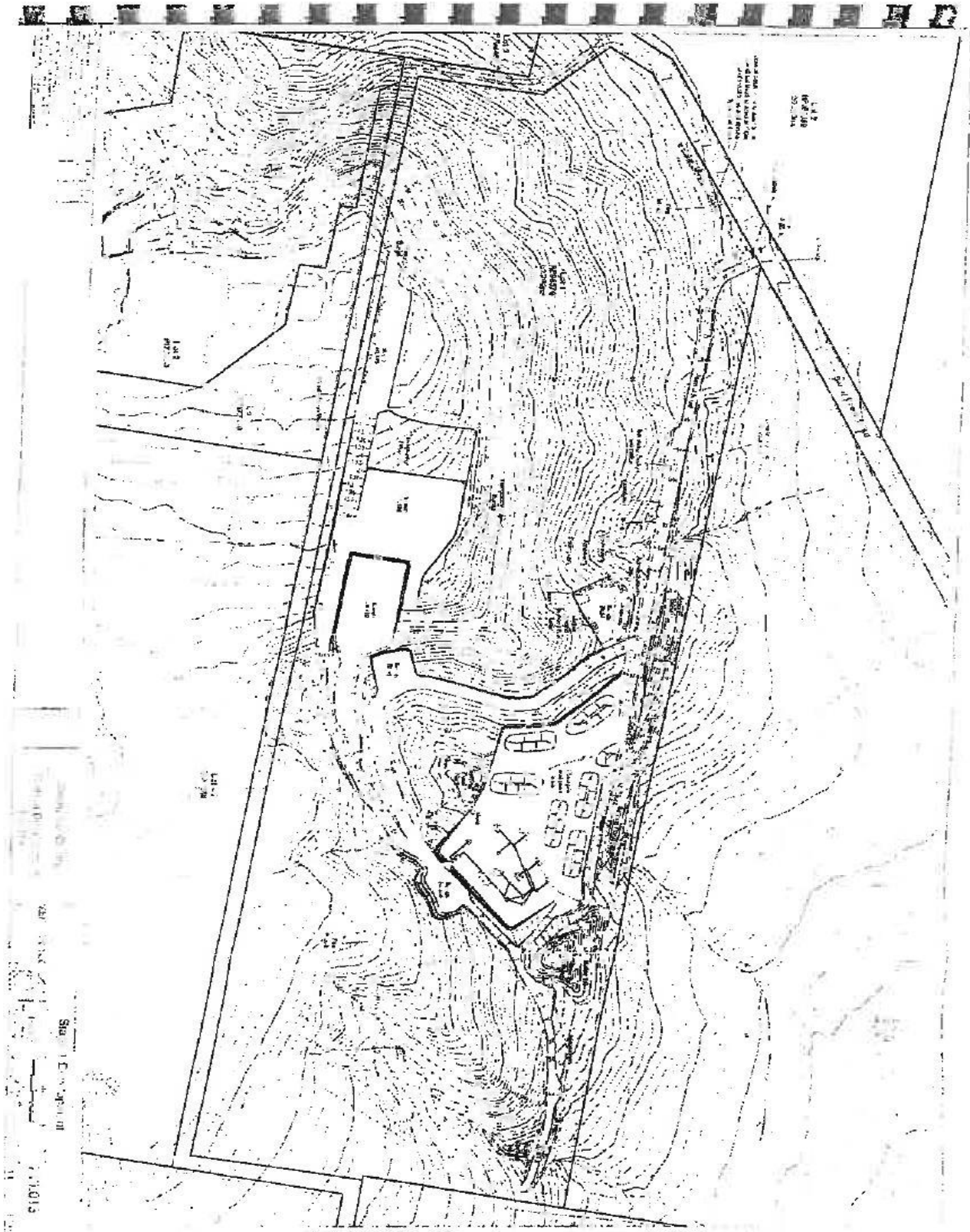
- (a) a house, unit, motel, nursing home or other building or part of a building;
- (b) a caravan, mobile home or other vehicle or structure on land; and
- (c) a watercraft in a marina.

Waste

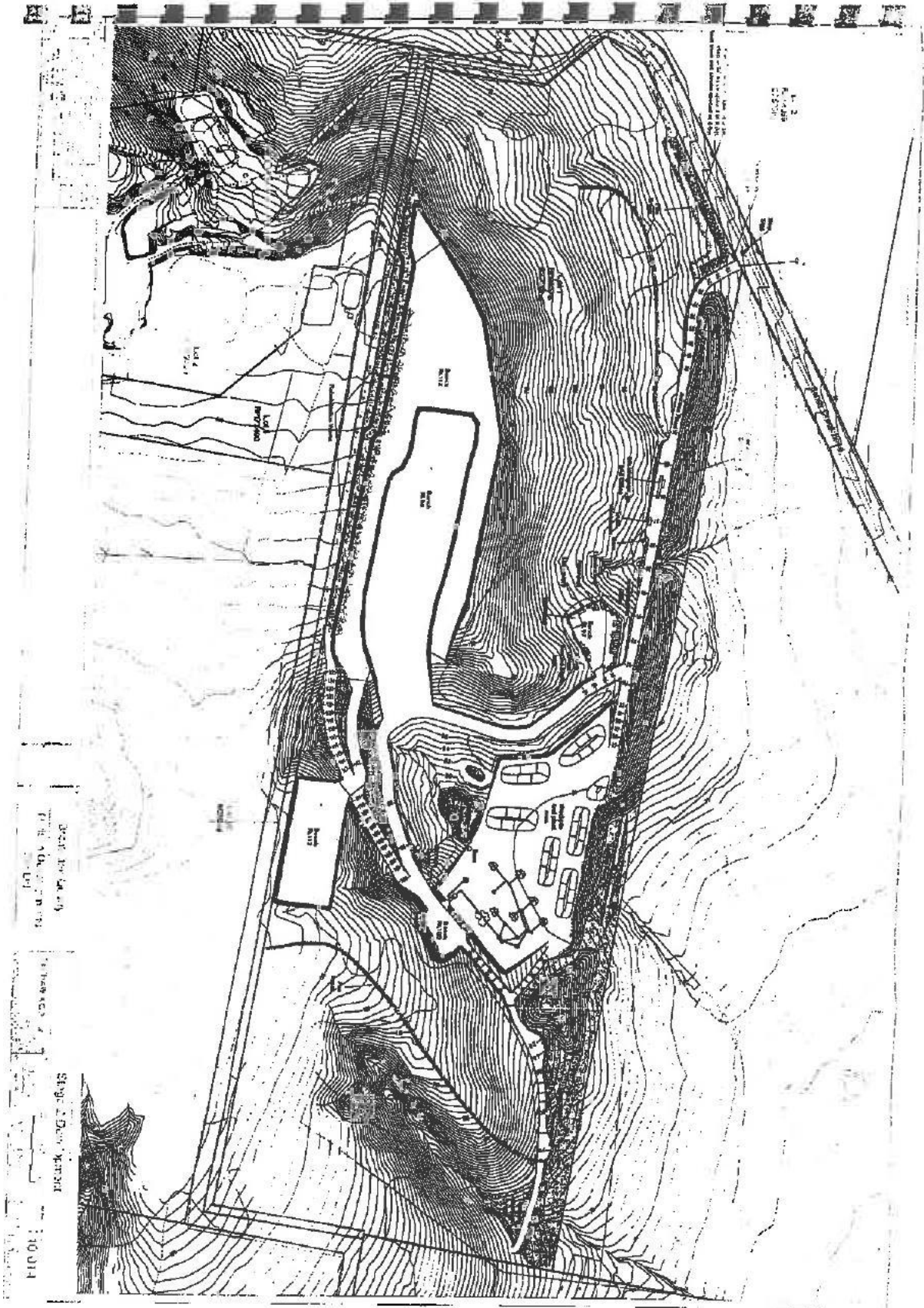
Regulated waste means non-domestic waste mentioned in Schedule 9 of the Environmental Protection Regulation 2019 (whether or not it has been treated or immobilised), and includes:

- (a) for an element - any chemical compound containing the element; and
- (b) anything that has contained a regulated waste.

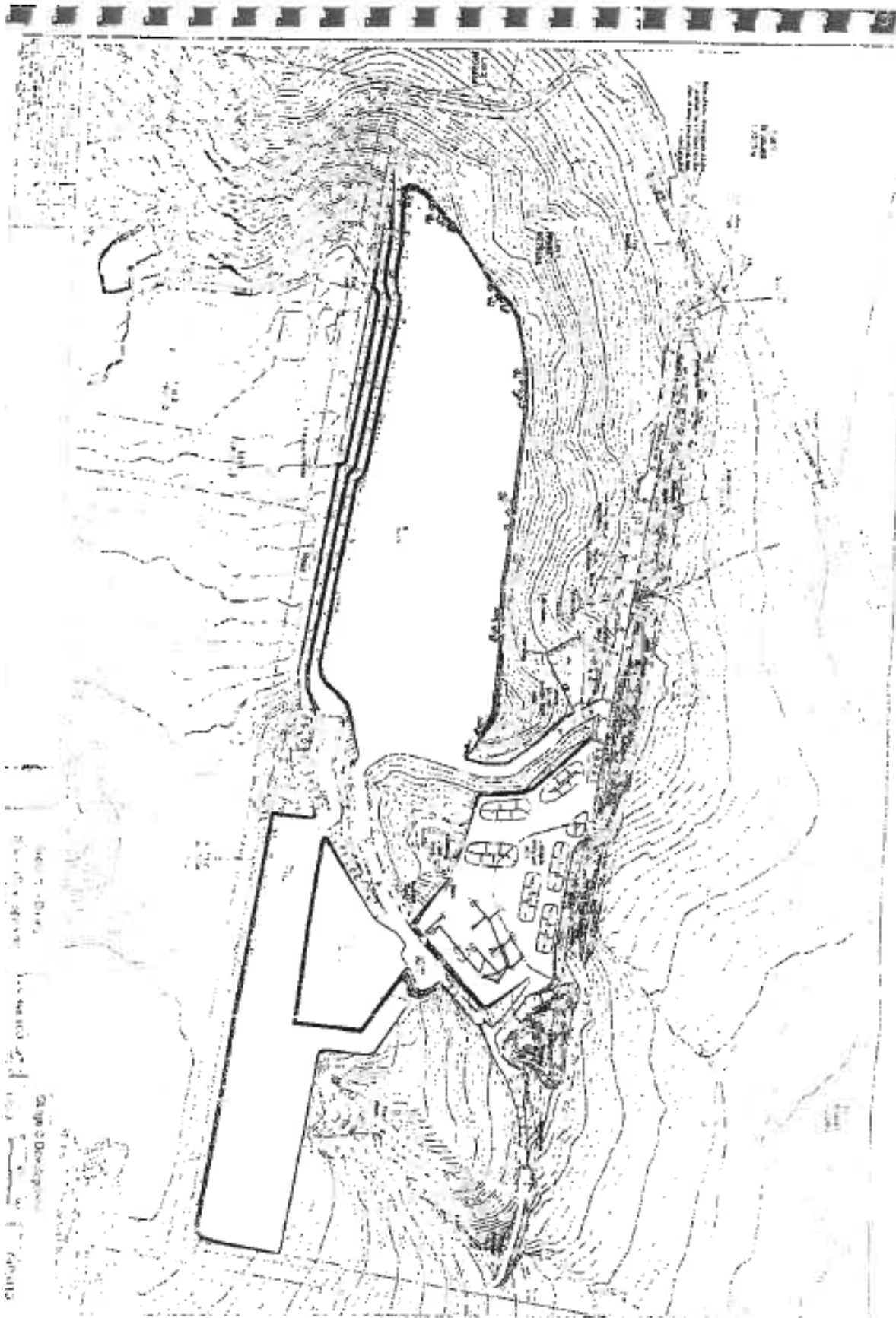
Appendix 1 - Plan of Development: Stage 1 Development



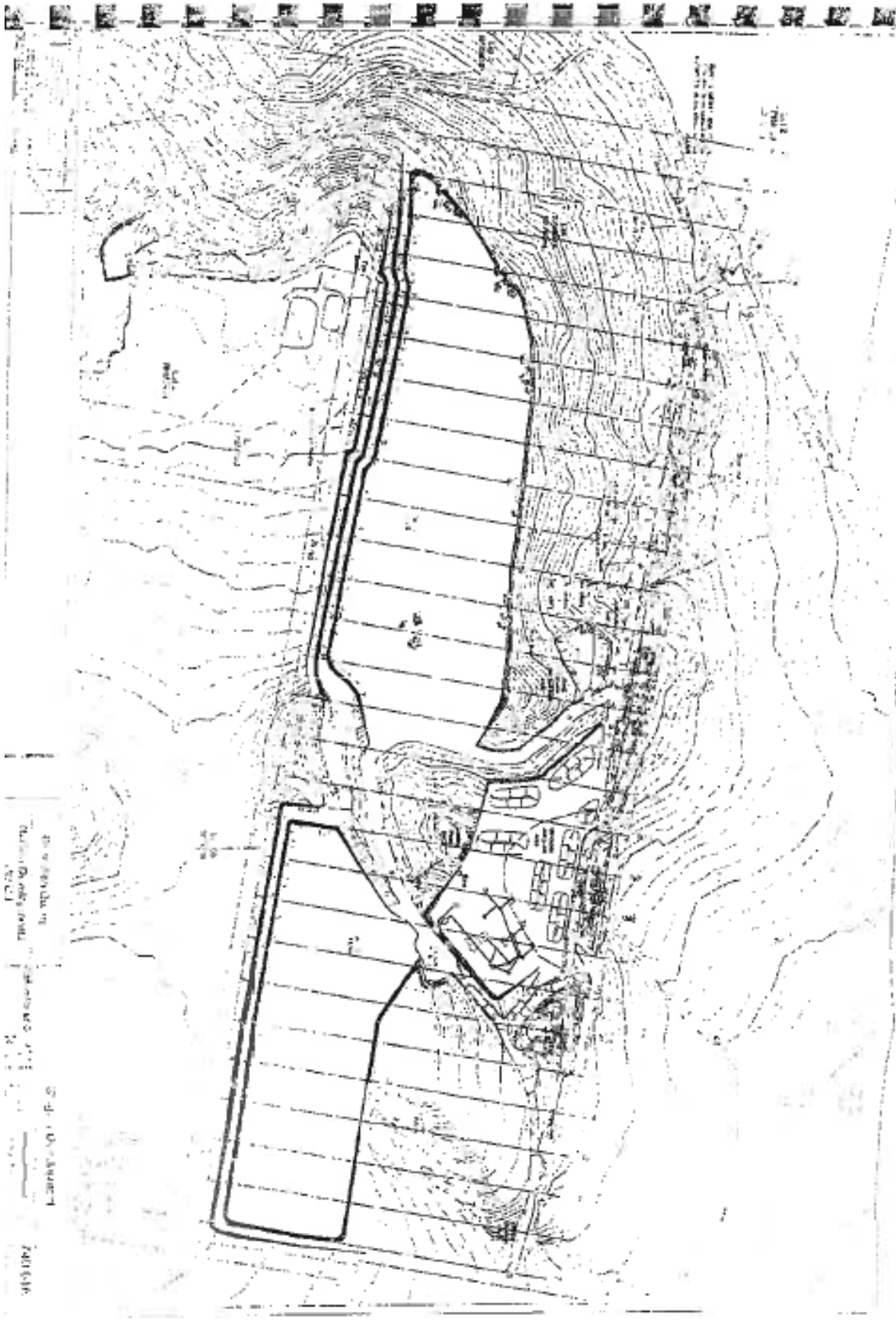
Appendix 2 - Plan of Development: Stage 2 Development



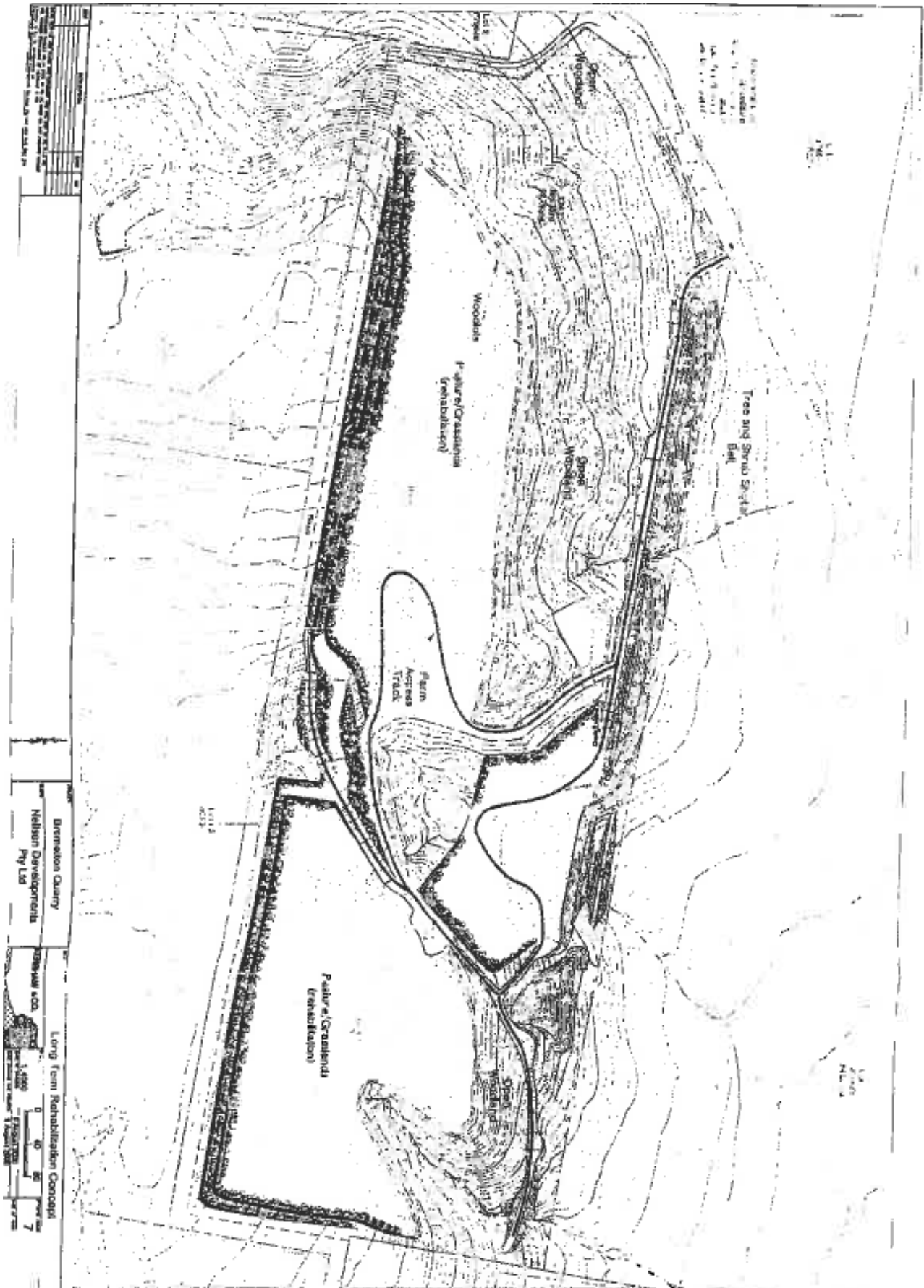
Appendix 3 - Plan of Development: Stage 3 Development



Appendix 4 - Plan of Development: Stage 4 Development



Appendix 5 - Long Term Rehabilitation Concept



Appendix 6 - Noise Monitoring Locations - Blasting and Ground Vibration



END OF ENVIRONMENTAL AUTHORITY