

6.3 Code for Extractive Industry

PURPOSE

The purpose of the code is to achieve the following outcomes:

- (a) Extractive industry operations occur where the overall community benefits of winning an available resource are not overridden by adverse environmental or amenity impacts,
- (b) Extractive industry operations are protected from the intrusion of sensitive or otherwise incompatible surrounding development.

(1) Element: Site Planning

PURPOSE

To provide for the significant impacts of extractive industry on the environment to be adequately addressed in the planning and setting up of the operations.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<p>P1 Development must be designed, and the premises established, to provide for:</p> <ul style="list-style-type: none"> • adequate buffering to protect the surrounding area from significant noise, dust and visual impacts of operations, • suitable vehicle access, • protection against erosion, • acceptable quality of water leaving the site, • public safety, and • acceptable restoration measures. 	<p>A1 Development in accordance with an approved environmental management plan which addresses environmental impacts in relation to:</p> <ul style="list-style-type: none"> • site establishment works, • method and staging of operations, and • restoration works, <p>and which describes:</p> <ul style="list-style-type: none"> • the programme's objectives, • all protection and mitigation measures, • implementation responsibilities, • clean-up and emergency procedures, • monitoring programmes, and • performance-achievement criteria.
<p>P2 Environmental management requirements must be properly identified, and their effective implementation and monitoring properly planned so as to ensure acceptable levels of environmental impact.</p>	<p>A2 Development for which an approved environmental impact study, environmental management plan, and/or other suitable report or statement has been prepared which demonstrates that adequate management, technical and financial resources are to be provided to meet environmental management commitments.</p>
<p>P3 Extraction volumes must be planned and staged so that a suitable and sustainable landscape form remains on the extraction site.</p>	<p>A3 Appropriate depth and batter slopes of any water bodies are created through the extraction process which can support aquatic vegetation.</p>

(2) Element: Management of Operations

PURPOSE

To provide for extractive industry operations to be managed so that significant environmental impacts are contained within the site itself.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<p>P1 Vehicle access to and from, and within, the site must be provided so as:</p> <ul style="list-style-type: none"> • to be adequate for the type and volume of traffic to be generated; • not to create or worsen any traffic hazards, • not to have adverse effects on the amenity of the locality, and • to ensure disturbance to surrounding land uses is minor and that impacts from emissions are minimised. 	<p>A1.1 Written approval of proposed vehicle access arrangements is obtained from the relevant State Government Department where direct access is proposed to a road under that Department's control.</p> <p>AND</p> <p>A1.2 The proposed access route to and from the site is along sealed roads of adequate width and construction standards which will not require heavy vehicle traffic to use residential or rural residential streets.</p> <p>AND</p> <p>A1.3 Each access driveway has a width of between 6 and 9 metres and located not less than 9 metres from any other access driveway to the site.</p> <p>AND</p> <p>A1.4 All driveways are designed, constructed and maintained in compliance with the Council's current engineering standards.</p>
<p>P2 The siting and extent of operations must allow for an area to be provided around the perimeter of the site to effectively buffer surrounding areas from noise, dust and visual impacts.</p>	<p>A2.1 No hard rock extraction and processing activities involving blasting are carried out within 10 metres of any boundary of the site or within 500 metres of any existing or approved noise sensitive place on surrounding land.</p> <p>AND/OR</p> <p>A2.2 Extraction and processing activities not involving blasting are not carried out within 10 metres of any boundary of the site or within 250 metres of any existing or approved noise sensitive place on surrounding land.</p> <p>AND</p> <p>A2.3 A densely vegetated buffer strip or mound, having a minimum width of 10 metres, is provided to all boundaries of the site and any areas of significant vegetation.</p> <p>AND</p> <p>A2.4 Extraction and processing activities are screened from view from any sub-arterial or higher order roads, and any urban areas, by natural features and/or landscaping.</p> <p>AND</p> <p>A2.5 Development and use achieves the air emission standards set out in the State's Environmental Protection (Air) Policy provisions, and under that policy are not "unreasonable".</p>
<p>P3 On-site drainage must be designed, constructed and maintained:</p> <ul style="list-style-type: none"> (a) to prevent ponding in excavated areas, (b) to avoid erosion, 	<p>A3.1 Banks and channels are constructed to divert stormwater runoff away from excavated areas.</p> <p>AND</p> <p>A3.2 Sediment basins are provided as required to detain stormwater runoff from disturbed areas such that there is no off-site discharge likely to cause environmental harm.</p> <p>AND</p>

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PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<p>P3 continued (c) to prevent pollution of groundwater and surface water, (d) to protect the quality of downstream water, and (e) to provide opportunities to recycle water for use in processing, washing and/or screening of materials.</p>	<p>A3.3 Bunding, treatment and disposal of industrial wastes is carried out such that no environmental harm is caused.</p> <p>AND</p> <p>A3.4 Lining and/or other suitable treatment of erosion-prone areas is established and maintained at discharge points.</p>
<p>P4 Blasting, crushing, screening and loading must be carried out safely and so that disturbance to surrounding land uses is minor and that impacts from emissions are minimised.</p>	<p>A4.1</p> <p>(a) Blasting operations are limited to the hours of 9am to 5pm Monday to Friday.</p> <p>(b) Other operations are limited to the hours of 6am to 6pm Monday to Friday and 7am to 1pm on Saturdays.</p> <p>(c) No operations are conducted on Sundays or public holidays.</p> <p>(d) Regard is to be given to the best available current standards regarding vibration (such as British Standard BS6472:1992 - Evaluation of Human Exposure to vibration in buildings (1hz to 80hz) in relation to vibration).</p> <p>AND</p> <p>A4.2 The site is suitably signed to warn the public of operations and safety hazards.</p>
<p>P5 The emission of sound beyond the boundary of the site⁵:</p> <ul style="list-style-type: none"> • maintains the EPP (noise) Environmental values of the receiving acoustic environment; and • is such that ambient sound levels for any nearby residential land and other noise sensitive places are maintained. 	<p>A5 Development and use achieves compliance with the noise limits specified for the relevant noise types, as identified in Table 3.1 of <i>Planning Scheme Policy No. 7 - Acoustic Environment Assessment</i>.</p>
<p>P6 Noise attenuation measures are compatible with the local streetscape, encourage the creation of active street frontages and are designed to discourage crime and anti-social behaviour having regard to:</p> <ul style="list-style-type: none"> • aesthetic quality and compatibility; • physical accessibility; • provision for casual surveillance of public space from dwellings; and • opportunities for concealment or vandalism. 	<p>No Acceptable Measure nominated</p>
<p>P7 Operations areas must be fenced to prevent unauthorised or accidental public entry.</p>	<p>A7 Fencing having a minimum height of 1.8 metres is erected and maintained, at a safe distance around any excavated areas and ponded water having a depth of one metre or more, to prevent unauthorised access.</p>
<p>P8 All aspects of the operations must be carried out in compliance with all relevant statutory requirements, including licensing from the Council.</p>	<p>A8 Operations are carried out in accordance with the Council's licensing requirements and all relevant State Government requirements.</p>

⁵ To demonstrate compliance with this performance criterion, applicants may need to prepare a noise

impact assessment in accordance with Planning Scheme Policy No. 7 - Acoustic Environment Assessment.

(3) Element: Rehabilitation

PURPOSE

To provide for disturbed areas to be restored excavation operations, to achieve a stable landform and an agreed end land use suitability.

PERFORMANCE CRITERIA	ACCEPTABLE MEASURES
<p>P1 Rehabilitation must be in accordance with a management plan providing for:</p> <ul style="list-style-type: none"> • progressive/staged rehabilitation works, • appropriate clean-up works (taking particular account of areas of possible soil contamination), • agreed landform and soil profiles, • suitable revegetation, and • establishment phase requirements. 	<p>A1 Rehabilitation is carried out in accordance with a management plan approved by Council prior to commencement of the use.</p>
<p>P2 Rehabilitation works must be bonded to ensure the effective return of disturbed areas to acceptable land use suitability.</p>	<p>A2 Rehabilitation works are bonded to the satisfaction of the Assessment Manager with bonded monies progressively returned as staged works are completed to Council's satisfaction.</p>
<p>P3 Rehabilitation must allow for suitable use of any water bodies created through the extraction process, having regard to water quality, hydraulic conditions, land form and vegetation.</p>	<p>A3.1 Rehabilitation is carried out to provide water quality of a standard which can support aquatic vertebrates and invertebrates. AND A3.2 Fringes of water bodies planted with wetland species such that a sustainable aquatic plant community is established.</p>
<p>P4 Landscaping for rehabilitation must be undertaken undertaken in accordance with the Code for Landscaping.</p>	<p>A4 For Assessable development site specific measures apply.</p>