

RECORD OF DECISION SOUTHERN REGION JOINT REGIONAL PLANNING PANEL

Members:

Allen Grimwood	Acting Chair
Alison McCabe	Panel Member
Mark Grayson	Panel Member

Apology: Nil

Declarations of Interest: Nil

The Panel considered the following application via teleconference and this is a record of the process and decision.

Business Item

2011STH015 Palarang Council DA.2011.33 - Sand Quarry; 135 Halls Lane, Durran Durra

Development application DA.2011.33 was considered at the panel meeting held on 4 August 2011 at Palarang Council. At this meeting it was moved:

- "1. That development application 2011STH015 for a sand quarry at 135 Halls Lane, Durran Durra be deferred for a further report to the Panel addressing:*
 - i. noise mitigation measures associated with the potential for a dwelling house on the adjoining lot to the east,*
 - ii. dust mitigation and management measures for the life of the quarry,*
 - iii. the staging of Site A to minimise potential for noise and dust impacts, and*
 - iv. appropriate conditions regarding the following, ensuring consistency between conditions:*
 - noise and dust mitigation*
 - rehabilitation*
 - relevant operational management plans*
 - fencing, and*
 - matters dealt with in the Southern Rivers Catchment Management Authority letter*
- 2. That the further report be considered by the Panel out of session by electronic means."*

Palarang Council subsequently provided an addendum report, including draft conditions of consent, which was distributed (by the Panel Secretariat) to Panel members for consideration on 9 January 2012.

On 20 January 2012, a teleconference with Panel members was undertaken. A decision was not made at this meeting, and the teleconference was adjourned so that the schedule of conditions could be amended to:

- "A. Insert the list of plans and documents submitted with the development application, including the supplementary report prepared by David Hogg Pty Ltd and dated 24 August 2011, in condition 1,*
- B. include additional conditions that were recommended by David Hogg Pty Ltd in the supplementary report dated 24 August 2011 but were not included in Attachment A to the addendum,*
- C. include an additional condition regarding weed control as recommended by the Southern Rivers CMA,*
- D. combine conditions 14, 39, 40 and 51 regarding site rehabilitation and revegetation,*
- E. include an additional condition concerning the staging of development."*

The following resolution was proposed by the Chair (Acting) on 31 January 2012:

"That Development Application DA.2011.033 for a Sand Quarry at 135 Halls Lane (Lot 2 DP 1023736), Durran Durra, be approved subject to the conditions included in Appendix 1, and these conditions be included in the record of decision. Further, Palerang Council to be notified of the decision and requested to issue the Notice of Determination."

Mark Grayson declared support for the resolution as proposed by the Chair.

Alison McCabe requested a modification to Condition 53, as Sydney Catchment Authority is a concurrence authority and their conditions should not be modified. The requested change is as below:

- 53 *A Mine Rehabilitation Plan is to be prepared for the quarry that provides long-term stability to the quarry site, the access road and immediate surrounds following completion of the operational phase of the development. The Mine Rehabilitation Plan which is to be to the satisfaction of Council, is to bring together the details of the proposed rehabilitation of the site, including Appendix F, as set out in the Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement prepared by David Hogg Pty Ltd (dated 25 January 2011). The Mine Rehabilitation Plan is to be prepared within one year of commencement of extraction operations.*

Reason: To stabilise the mine site and manage potentially adverse environmental and water quality impacts in the post-operational phase of the development so as to ensure a neutral or beneficial impact on water quality over the longer term.

- 53A *The Mine Rehabilitation Plan is to be also in accordance with the Supplementary Report (dated 24 August 2011)*

The rehabilitation plan is to show levels and contours of the extraction sites before extraction, and finished levels and contours at the completion of extraction. The plan is to include details of proposed plantings on each stage of the rehabilitation. Revegetation of the site is to be tree mid story and shrub layer species consistent with the local vegetation community and fences to exclude stock. Fencing of the riparian area to the west of the site is to be undertaken prior to any extraction works commencing on site.

The use of recycled organics in site rehabilitation in accordance with Best Management Practice Guidelines for the Beneficial Use of Recycled Organics in Land Rehabilitation and Catchment Management (DECC/DPI/HNCMA 2006) is encouraged.

Allen Grimwood (Acting Chair) requested a minor modification to Condition 11 and 36 to remove italics.

The conditions of consent have subsequently been amended, and the final version is attached to this Record of Decision.

Therefore, the following resolution is made by unanimous decision:

Resolved

"That Development Application DA.2011.033 for a Sand Quarry at 135 Halls Lane (Lot 2 DP 1023736), Durran Durra, be approved subject to the conditions included in Appendix 1 of this record of decision ("Conditions of Consent as modified by Southern Region Joint Regional Planning Panel" dated 20 February 2012). Further, Palerang Council to be notified of the decision and requested to issue the Notice of Determination."

Endorsed by



Allen Grimwood
Acting Chair
Southern Region Joint Regional Planning Panel
20 February 2012

APPENDIX 1

CONDITIONS OF CONSENT

AS MODIFIED BY

SOUTHERN REGION JOINT REGIONAL PLANNING PANEL

20 FEBRUARY 2012

SCHEDULE OF CONDITIONS

Development Consent DA.2011.33

Approved development and plans

- 1 The development is to be carried out in accordance with the following plans and documentation (as amended by these conditions) and in accordance with this schedule of conditions:
 - Environmental Impact Statement for proposed sand extraction of Lot 2 DP1023736, Parish of Durran Durra, prepared by David Hogg P/L dated January 2011;
 - Supplementary report for proposed sand extraction of Lot 2 DP1023736, Parish of Durran Durra, prepared by David Hogg P/L dated 24 August 2011;
 - Detailed survey plans (1:1,000) of proposed extraction sites for Lot 2 DP1023736, prepared by Mail McDonald Barnsley, 24 June 2009 (two sheets); and
 - Plan of extraction and runoff management measures for Lot 2 DP1023736, prepared by David Hogg P/L, undated.

Any change to the details of the operations, including change in haulage routes, requires further development consent.

Reason: Development is undertaken in accordance with this consent & is used for the approved purpose only.

Plans to be kept on site

- 2 Keep a copy of all stamped approved plans, specifications and documents on site while work is being undertaken.

Reason: Relevant documentation is available for perusal on site by a council officer, for compliance check.

Construction certificate & principal certifying authority

- 3 Obtain a construction certificate from Palerang Council or an appropriately accredited private certifier before undertaking any work. Forward a copy of any construction certificate issued by a private certifier to Palerang Council at least 2 days before undertaking any work in accordance with that construction certificate.
- 4 Appoint a principal certifying authority before any work is undertaken. Provide details of the appointed principal certifying authority (if not Palerang Council) to Palerang Council at least 2 days prior to any work being undertaken.

Reason: Work is undertaken in accordance this consent & relevant construction standards.

Site identification

- 5 Prior to undertaking any site establishment construction works:
 - A registered land surveyor is to be engaged to mark out the boundaries of the approved limits of extraction;
 - These boundaries are to be clearly marked at all times in a permanent manner that allows operating staff and inspecting officers to clearly identify those limits.

Reason: The site is managed in a safe manner.

- 6 The site where works are proposed to be carried out shall be identified by a sign sited in a visually prominent position containing the following information;
 - the development application number,
 - name, address and telephone number of the principal certifying authority,
 - name of the principal contractor (if any) and 24 hour contact telephone number, and
 - a statement that "unauthorised entry to the work site is prohibited".

Reason: The site is managed in a safe manner.

Staging of development

- 7 The extraction operation shall be staged so that Site A is extracted prior to Site B in order to limit the extent of time that any future residence on the property to the east of Site A may be exposed to any potential noise, dust or visual impacts.
- 8 Within Site A, extraction shall be staged to commence on the upper part of the slope, which is closest to the property boundary, and work progressively downslope, with progressive rehabilitation of disturbed areas.

Reason: To minimise the risk of potential adverse impacts on the adjoining private property and the site of the approved dwelling.

Stormwater

- 9 Direct surface water drainage to existing natural drainage or to Palerang Council drainage infrastructure. Do not re-direct surface water onto adjoining private land. Alterations to the surface contours must not impede or divert natural surface water run-off, so as to cause a nuisance to adjoining property owners or create an erosion or sediment problem.

Reason: Stormwater disposal does not impact on the building or neighbouring properties.

Noise Control

- 10 Noise generated at the project is not to exceed 50dB(A) Leq(15min) at any residence or approved residence on privately owned land or no more than 25 percent of any privately owned land.
- 11 The section of the diversion bank between the operating quarry at Site A and any future residence on the adjoining land to the east shall be constructed and maintained to assist also in noise mitigation at the residence.
- 12 Noise monitoring measures and a complaints handling system are to be included in the Environmental management Plan required by these conditions of consent.

Reason: To ensure appropriate noise control practices are in place.

Waste Management

- 13 All waste materials generated on-site during construction are to be stored in enclosed containers and deposited in an approved landfill at regular periods.
- 14 No construction or trade waste is to be deposited at a Palerang Council operated waste facility without a trade waste agreement with Palerang Council.

Reason: To ensure adequate waste management practices are in place to satisfy Council requirements.

Limits on Approval

- 15 This consent will lapse; after 40,000 cubic metres of material have been extracted from the development, or 8 years after the date it commences, whichever comes first.
- 16 No more than 5,000 cubic metres a year shall be extracted and transported from the development.

Reason: Development is undertaken in accordance with this consent & is used for the approved purpose only

Code of conduct

- 17 The applicant is to prepare a code of conduct for the transport of materials on public roads to the satisfaction of Palerang Council and is to ensure that all truck drivers associated with haulage to and from the quarry comply with the code of conduct.

Reason: Safety for road users and amenity of nearby residents.

Hours of operation

- 18 The quarry is to be operated between the following hours: Monday to Saturday 7:00am to 7:00pm, Monday to Saturday. No work is to be carried out on Sundays or public holidays.

Reason: To avoid potential conflict with existing local traffic

Haulage Trucks Hours of Operation

- 19 Haulage truck operations on public roads are to cease during the period when school buses may be encountered on the roads - between the hours of 7.30 - 9.00 am and 3.00-5.00 pm on school days.

Reason: To avoid potential conflict with existing local traffic

Vehicle access

- 20 Vehicle access to the quarry is to be taken from the existing entrance to the property from Halls Lane. Prior to the extraction of any material from the site, the Halls Lane haul road access point and the internal haul road must be upgraded.

Reason: Minimise the impact of the traffic generated on the local road system.

Rural Entrance Type C

- 21 Upgrade as necessary the existing entrance to the property from Halls Lane, to the standard of Type C as illustrated in Figure 6 of *Tallaganda Development Control Plan No. 4 Rural Zone and Palerang Council's Specification for Construction of Private Access Roads and Entrances*. The entrance is to be realigned to be perpendicular to the centreline of Halls Lane. Any trees, scrub or other impediments to the availability of sight distance are to be removed.

Cross drainage culvert pipes shall be 375 mm minimum diameter, set back 6 m minimum from the edge of the travel lane. Permanent erosion protection and re-vegetation shall be provided upstream and downstream of the culvert and in adjacent table drains and batters as required to control erosion. Guideposts shall be provided at culvert pipes and on the road shoulder each side of the entrance. Road and driveway shoulders shall be trimmed to 3% crossfall. All disturbed earth surfaces shall be topsoiled and fertilised as necessary, seeded with endemic grasses and/or groundcover plants and mulched with bitumen straw or paper mache to ensure vigorous growth of the re-vegetation. The required standard of finish is that which is equal to the finish of urban landscaping projects with all waste materials removed from the site and surfaces evenly trimmed to match smoothly with existing contours.

Reason: Safe entry and exit to lots from the road.

Internal road access

- 22 Upgrade as necessary the existing internal access road and drainage structures between the entrance and the two quarry sites, generally to the standard of Type 1 Road as specified in *Table 2 of Tallaganda Development Control Plan Rural Zone and Palerang Council's Specification for Construction of Private Access Roads and Entrances*.

The access road is to comply in perpetuity with the performance criteria and acceptable solutions as set out in Rural Fire Service NSW document *Planning for Bushfire Protection December 2006*.

Reason: Roads created allow for environmental protection and requirements for bushfire planning.

Prevent Stormwater Discharge to Public Road:

- 23 Provide permanent drainage measures to the satisfaction of the principal certifying authority on the internal access road and in the vicinity of the entrance, to divert stormwater away from the internal access road and prevent stormwater and sediments flowing on to the public road via the access road.

Reason: Gravel and silt is not washed from the property to the road surface and road table drains..

Design and construction standard

- 24 Design and construct civil works to *Aus-Spec #1 Development Specification Series* as amended by Palerang Council.

Reason: Roads and other works are of a standard to safely cater for the traffic generated by the development.

Section 138 consent

- 25 Obtain consent under section 138 of the *Roads Act 1993* from Palerang Council before any work is undertaken in the public road reserve.

Reason: To ensure that works carried out comply with the Roads Act.

Design drawings – civil works

- 26 Provide engineering design drawings, and supporting information, to standards in AUS-SPEC #1 as amended by Palerang Council, for all civil works for approval by the principal certifying authority prior to issue of any construction certificate.

Engineering drawings are to include a note that “All work is to be constructed in accordance with AUS-SPEC#1 Development Specification Series as amended by Palerang Council, and the terms of the Development Consent.”

Advice: If Palerang Council is nominated principal certifying authority for the work detailed construction drawings are not required for this class of road. However road location, longitudinal grades and stream crossings are to be shown at a minimum. Crossings of prescribed streams are to be referred to the NSW Office of Water for Controlled Activity Approval.

Reason: Works are designed to cater for the demands generated by the development.

Inspection and test plans

- 27 The Project Quality Plan shall include inspection and test plans detailing witness points covering at least the following aspects of the works. Witness points shall be signed off by the site foreman or other nominated to do so in the Project Quality Plan:

- installation of sediment and erosion control devices
- site clearing
- site regrading
- preservation measures installed for trees and vegetation
- fencing, signs, guideposts and markings installation

Advice: If Palerang Council is nominated principal certifying authority for the work Include as a minimum the following hold points for inspection and release by the principal certifying authority:

- Final inspection of completed entrance works

Release of the above hold points prior to commencement of the next stage of the works will require that the work be acceptable on the basis of visual inspection by the principal certifying authority and satisfactory test results supplied by the applicant's Project Superintendent.

Reason: To ensure that the works are carried in accordance with quality assurance principles.

Certification of completed works

- 28 At the completion of works the superintendent of works shall present to Palerang Council a Certification Report for civil works as set out in AusSpec#1 Clause CQC7(1), and will also include copies of any approvals outlined in this development consent and report on the current status of environmental restoration and revegetation. All project plans, inspection test plans, and results are to be included in the report. The superintendent of works shall be a Civil Engineer or suitably experienced and accredited Registered Surveyor as set out in AusSpec#1 Clause CQC7(3).

Reason: To ensure compliance of the works with the terms of the development consent.

Works as- executed plans

- 29 Provide one copy of works as-executed plans to Palerang Council, showing any variations from the approved designs. The works as-executed plans are to be prepared in accordance with the requirements set out in Aus-Spec #1 as amended by Council.

Reason: To provide a record of works for future technical reference.

Defects liability roads

- 30 A defects liability period of 6 months will apply from the certified date of practical completion of all works on public roads (including pavement, entrances, drainage, re-vegetation and erosion control). The date of practical completion shall be the date identified in writing by Palerang Council.

Lodge a bond with Palerang Council of \$1 000.00 for the works to provide for repair of defective or inadequate work. When paying this bond please quote account code GLBondRdWks.

Reason: To cover Palerang Council's costs of repair any defects that are not repaired by the applicant.

Dust Suppression

- 31 Respond to Councils direction to provide dust suppression on roads leading to, adjacent to and within the subdivision in the event that weather conditions and construction traffic are giving rise to abnormal generation of dust.
- 32 Extraction Site A shall be extracted in stages so that no more than 20 percent of the site is exposed at any given time.
- 33 Rehabilitation of extracted areas shall be undertaken progressively as soon as extraction in the exposed portion is completed.
- 34 Diversion banks and other stockpiles of topsoil or non-commercial material which are not proposed for short term use shall be stabilised with grass cover as soon as completed by sowing rehabilitation grass mix.
- 35 Extraction and stockpiling operations which may give rise to dust shall not be undertaken on days of high wind when there is a significant risk of dust nuisance.
- 36 Following the construction of a residence on the adjacent property to the east of Site A, extraction and stockpiling operations which may give rise to dust shall not be undertaken at Site A on days of high wind when there is a significant risk of dust nuisance at that residence.

Reason: To ensure that local residents and activities are not disadvantaged by dust during the life of the development.

Road Haulage dust and debris

- 37 All loaded vehicles entering or leaving the site are to be covered to prevent the escape of dust and debris.

Reason: To ensure that local residents and activities are not disadvantaged by dust during the life of the development.

Section 94 Contributions – Roads

- 38 Section 94 payments shall be made in accordance with *Tallaganda Section 94 Plan No. 3* and arrangements as follows:-
- a) The contribution rates shall be \$0.18 per tonne per km travelled on Halls Road (or \$0.243/t and \$0.06 per tonne per km travelled on Nerriga Road (or \$0.66/t if travelling to the Kings highway). These amounts apply in 2011/2012 and will be indexed annually on 1 July in keeping with movements in the CPI for Canberra..
 - b) The operator of the quarry is to keep a record of tonnes hauled and the destination of each load and shall submit the calculated payment, the calculations made and a copy of all truck despatch/delivery dockets for all the loads hauled for the year up to 30 June each year.

Reason: Appropriate upgrade of the roads affected by the increase in traffic resulting from this development.

Dangerous Goods

- 39 The applicant shall ensure that the storage, and transport of dangerous goods is to be carried out in accordance with relevant Australian Standards, particularly *AS1940-2004: The storage and handling of flammable and combustible liquids* and *AS/NZS 1596:2002: The storage and handling of LP Gas*, and the *Dangerous Goods Code*

Reason: To ensure materials are handled correctly and safely on site.

Fencing

- 40 The extraction sites are to be fenced with 1.8m high cyclone wire fencing for the duration of extraction and until the rehabilitation of the sites is achieved.

Reason: To ensure the site is protected.

Operational Mangement Plan

- 41 The proponent is to be prepare an Operational Management Plan, to the satisfaction of the Principal Certifying Authority, which includes:-

- Baseline data,
- A description of the relevant statutory requirements and relevant performance measures/limits placed on the project by this consent,
- A description of the measuresthat will be implemented to comply with the relevant statutory requirements, performance measures/limits,
- A program to monitor and report impacts and environmental performance of the project and the effectiveness of any management measures,
- A complaints handling and reporting system

Reason: To ensure the proposal complies with the conditions of consent.

Consultation

- 42 The operator should consult periodically with the owner of the neighbouring property to the east of Site A with a view to addressing any concerns associated with the extraction operation.

Reason: to enable the quarry operator to address any noise, dust or other environmental concerns experienced by the adjoining private property owner.

Protection of Existing Vegetation on site

- 43 Protection of the large gum within extraction site A, as identified in the *Proposed Sand Extraction "Bloomfield" Lot 2 DP1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011), is to be undertaken prior to any extraction taking place. This is to be done to the satisfaction of Palarang Council.

Reason: To ensure important flora on-site is protected.

Catchment Authority - General

- 44 The quarry layout and staging is to be as shown on Figures 5.5 and 5.6 of *Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011). Any revision to the layout or staging is to be agreed to by the Sydney Catchment Authority.

- 45 The extent of the actual quarry boundary is to be clearly and permanently delineated on the ground by fences.

Reason: The Sydney Catchment Authority has based its assessment under the State Environmental Planning Policy (Sydney Drinking Water Catchment) 2011 on this version of the development;

Sydney Catchment Authority – Waste water management

- 46 There is to be no on-site wastewater management system constructed on the land in conjunction with the quarry without the written approval of Council or the Sydney Catchment Authority.

Reason: To ensure that no inappropriate effluent management system is sited on the lot and to ensure any such future development will have a neutral or beneficial effect on water quality and be sustainable over the long term;

Sydney Catchment Authority - Stormwater Management

- 47 All stormwater management measures as specified in Section 5.6 and Appendix G and as shown on Figures 5.5 and 5.6 of *Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011) are to be implemented in particular as elaborated or varied below:

Site A

- all stormwater from the active quarry at site A and the immediate surrounds is initially to be captured in a small collection sump located downstream of the extraction area with collected stormwater then directed to a water quality control pond, located as shown on Figure 5.6 of the *Environmental Impact Statement*.
- the water quality control pond at site A is to have a minimum permanent storage volume of 780 cubic metres.
- other than during a 5-day period following a major rainfall event, the water level of the water quality control pond at site A must be managed so as to always have 250 cubic metres available for stormwater capture.

Site B

- all stormwater from the active quarry at site B is to be directed to one of two water quality control ponds as shown on Figure 5.5 of the *Environmental Impact Statement*.
- each of the two water quality control ponds at site B is to have a minimum permanent storage volume of 200 cubic metres.
- other than during a 5-day period following a major rainfall event, the water level of the water quality control ponds at site B must be managed so as to always have 80 cubic metres available for stormwater capture.

Reason: To ensure that an appropriate stormwater management system is designed and managed that ensures a sustainable neutral or beneficial effect on water quality for the development as a whole over the longer term;

Sydney Catchment Authority - Access to the Quarry

- 48 Any changes to the location of access roads from that indicated in the *Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011) is to be agreed to by the Sydney Catchment Authority.
- 49 The proposed change to the access off Halls Lane is to be designed and constructed in accordance with the principles and guidelines in the *Environmental Practices Manual for Rural Sealed and Unsealed Roads* (ARRB Transport Research Ltd. 2002) and *Road Runoff & Drainage: Environmental Impacts and Management Options* (Austroads Inc 2000), and consistent with Council's requirements for rural roads.
- 50 All swales, table drains, batters and verges associated with the change to the access road are to be vegetated and stabilised with bitumen and jute matting as soon as possible after construction.

Reason: To ensure the access road and associated drainage works and water quality control measures have a minimal impact on water quality and can be maintained over the longer term;

Sydney Catchment Authority - Mine Operation

- 51 There is to be no washing of the sand at the site.
- 52 A Mine Operation Plan is to be prepared for the quarry prior to the commencement of extraction operations, and is to be to the satisfaction of Council. The Mine Operation Plan is to bring together

the details and limitations in relation to the quarry and its operation as set out in the *Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011) including the stormwater management issues raised in Condition 45 above.

Reason: To manage adverse environmental and water quality impacts during the operational phase of the development so as to ensure a neutral or beneficial impact on water quality over the longer term;

Sydney Catchment Authority - Mine Rehabilitation Plan

- 53 A Mine Rehabilitation Plan is to be prepared for the quarry that provides long-term stability to the quarry site, the access road and immediate surrounds following completion of the operational phase of the development. The Mine Rehabilitation Plan which is to be to the satisfaction of Council, is to bring together the details of the proposed rehabilitation of the site, including Appendix F, as set out in the *Proposed Sand Extraction "Bloomfield" Lot 2 DP 1023736 Halls Lane Durran Durra Environmental Impact Statement* prepared by David Hogg Pty Ltd (dated 25 January 2011). The Mine Rehabilitation Plan is to be prepared within one year of commencement of extraction operations.

Reason: To stabilise the mine site and manage potentially adverse environmental and water quality impacts in the post-operational phase of the development so as to ensure a neutral or beneficial impact on water quality over the longer term.

- 54 The Mine Rehabilitation Plan is to be also in accordance with the Supplementary Report (dated 24 August 2011).

The rehabilitation plan is to show levels and contours of the extraction sites before extraction, and finished levels and contours at the completion of extraction. The plan is to include details of proposed plantings on each stage of the rehabilitation. Revegetation of the site is to be tree mid story and shrub layer species consistent with the local vegetation community and fences to exclude stock. Fencing of the riparian area to the west of the site is to be undertaken prior to any extraction works commencing on site.

The use of recycled organics in site rehabilitation in accordance with *Best Management Practice Guidelines for the Beneficial Use of Recycled Organics in Land Rehabilitation and Catchment Management* (DECC/DPI/HNCMA 2006) is encouraged.

Reason: To stabilise the mine site and manage potentially adverse environmental and water quality impacts in the post-operational phase of the development so as to ensure a neutral or beneficial impact on water quality over the longer term.

Weed Management

- 55 Weed management is to be carried out on site, especially in relation to Serrated Tussock. Soil disturbance outside of the working quarry area is to be minimised and weed control by means of spot spraying is to be carried out where weed growth occurs.

Reason: To prevent the spread of noxious weeds on the subject land and adjoining rural properties.

Office of Environment and Heritage – Aboriginal Heritage

- 56 If any Aboriginal objects (such as stone artefacts or Aboriginal skeletal remains) are unearthed during sand extraction or any associated activity all work must cease immediately and the Office of Environment and Heritage (OEH, formerly the Department of Environment, Climate Change & Water) must be contacted for advice before any work re-commences.
- 57 The recorded Aboriginal site, Bloomfield – L1 within SU3 must be avoided and may not be harmed unless an Aboriginal Heritage Impact Permit (AHIP) has been issued by OEH. The OEH site number for Bloomfield – L1 is 57-3-0415.
- 58 Site 57-3-0415 must be temporarily fenced as a 'no-go' area to prevent any impacts during the duration of sand extraction operations. The fenced area must include a 20 m buffer around the

recorded Aboriginal objects (stone artefacts) to provide protection for unknown Aboriginal objects that may occur within the site.

- 59 All site workers and contractors must be provided with induction training on the identification of Aboriginal objects, Aboriginal cultural awareness and procedures that must be followed in the event of discovery of unknown Aboriginal objects, including Aboriginal skeletal remains.

Reason: To protect Aboriginal heritage.