



Transport  
Roads & Maritime  
Services

WST13/00085

General Manager  
Narrabri Shire Council  
PO Box 261  
NARRABRI NSW 2390

Dear Sir

**DA41/2015: Part Lot 21 DP 757083; Jacks Creek Forest, Westport Road, Narrabri;  
Extractive Industry (gravel quarry)**

Thank you for your letter dated 18 September 2014 referring development application DA41/2015 to Roads and Maritime Services for comment.

The documentation submitted in support of DA41/2015 has been reviewed and it is noted that the quarry has operated intermittently in the past without development consent. The extraction rates will be generally low with some peak extraction periods to provide material for special projects and natural disaster repairs. Details of peak vehicle movements and haulage vehicle origin/destination have not been provided, however, an average of 48 trips (96 vehicle movements) per day is projected.

Roads and Maritime will not object to the proposed development and in accordance with Clause 16(2) of *State Environmental Planning Policy (Mining, Petroleum Production and Extractive Industries) 2007* provides the following recommended conditions for consideration by the Northern Joint Regional Planning Panel:

- A basic right (BAR) turn treatment as shown in Figure 7.5 of the *Austroads Guide to Road Design: Part 4A* (copy attached) shall be provided in the Newell Highway at the intersection of Newell Highway and Westport Road. The widened shoulder is to be sealed and built for a 110km/h speed environment to provide a reasonable level of safety for traffic turning right into Westport Road and to allow following traffic an area to pass the right turning vehicle on the left hand side.
- A basic left (BAL) turn treatment as shown in Figure 8.2 of the *Austroads Guide to Road Design: Part 4A* (copy attached) shall be provided at the intersection of Newell Highway and Westport Road. The BAL facility will also need to be sealed and built for a 110km/h environment.
- Westport Road shall be sealed a minimum of thirty (30) metres from the edge of the southbound travel lane in the Newell Highway.

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17 OCT 2014

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- Safe Intersection Sight Distance (SISD) requirements outlined in the *Austrroads Guide to Road Design* Part 4A and relevant Roads and Maritime Supplements shall be provided at the site access to Westport Road and at the intersection of Newell Highway and Westport Road. For a 100km/h speed zone the minimum SISD is 250 metres and for a 110km/h speed zone the minimum SISD is 300 metres.
- Prior to the commencement of construction works the proponent shall contact Roads and Maritime's Traffic Operations Coordinator to determine if a Road Occupancy Licence (ROL) is required. In the event that an ROL is required, the proponent shall obtain the ROL prior to work commencing within three (3) metres of the travel lanes in the Newell Highway.
- As road works are required on a state road, prior to the commencement of road work the developer will be required to enter into a Works Authorisation Deed (WAD) with Roads and Maritime.
- To provide suitable storage capacity for the largest class of vehicle accessing the proposed extractive industry, any gate, grid or similar structure installed in the access should be setback appropriately (20m for single articulated and 30m for B Double) from the edge of Westport Road.
- All required road works shall be completed to the satisfaction of Council and Roads and Maritime prior to operation of the proposed development.

Please forward a copy of Council's determination of the development application to Roads and Maritime at the same time it is sent to the applicant.

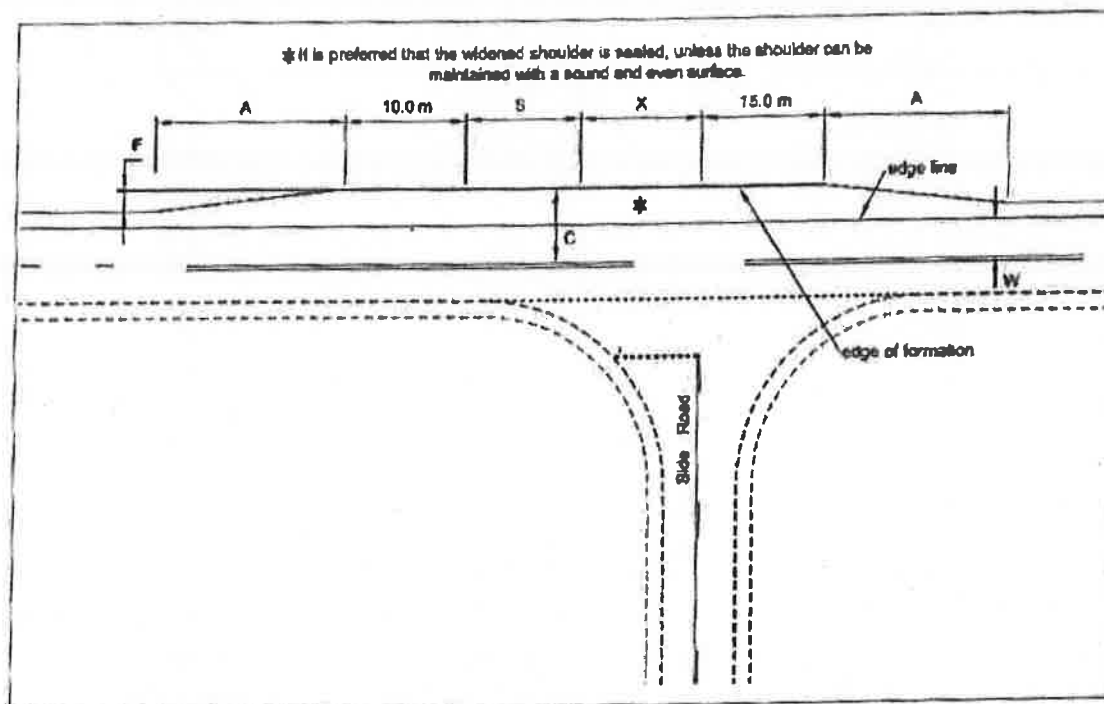
Should you require further information please contact Andrew McIntyre on (02) 6861 1453.

Yours faithfully



Susie Mackay  
Network & Safety Manager  
Western

14/10/14



Notes.

1. This treatment applies to the right turn from a major road to a minor road.

2. The dimensions of the treatment are defined thus.

W = Nominal through lane width (m) (including widening for curves). Width to be continuous through the intersection.

C = On straights – 6.5 m minimum

7.0 m minimum for Type 1 & Type 2 road trains

On curves – widths as above + curve widening (based on widening for the design turning vehicle plus widening for the design through vehicle).

$$A = \frac{0.5VF}{3.6}$$

Increase length A on tighter curves (e.g. those with a side friction demand greater than the maximum desirable). Where the design through vehicle is larger than or equal to a 19 m semi-trailer the minimum speed used to calculate A is 80 km/h.

V = Design speed of major road approach (km/h).

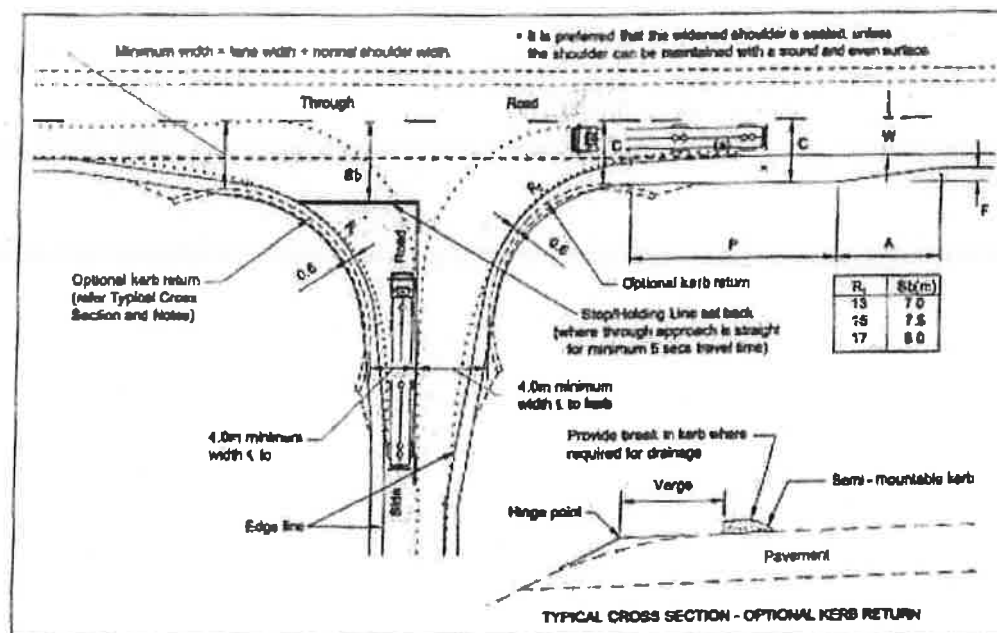
F = Formation/carriageway widening (m).

S = Storage length to cater for one design turning vehicle (m) (minimum length 12.5 m).

X = Distance based on design vehicle turning path, typically 10–15 m.

Source: OOMR (2006).

Figure 7.5: Basic right (BAR) turn treatment on a two-lane rural road



**Notes**

1.  $R_1$  and  $R_2$  are determined by the swept path of the design vehicle

2. The dimensions of the treatment are defined thus:

$W$  = Nominal through lane width (m) (including widening for curves).

$C$  = On straights - 8.0 m minimum.

On curves - 8.0 m plus curve widening (based on widening for the design turning vehicle plus widening for the design through vehicle).

$A$  =  $\frac{0.5VF}{3.6}$

$V$  = Design speed of major road approach (km/h).

$F$  = Formation/carriageway widening (m).

$P$  = Minimum length of parallel widened shoulder (Table B.1).

Source: QDMR (2006).

**Figure 8.2: Rural basic left-turn treatment (BAL)**



**Trade &  
Investment  
Resources & Energy**

21 October 2014

Hamish McTaggart  
Planning & Development Coordinator  
Narrabri Shire Council  
PO Box 61  
NARRABRI NSW 2390

EMAILED: [hamishm@narrabri.nsw.gov.au](mailto:hamishm@narrabri.nsw.gov.au)

Your Reference: HM:MR:DA41/2015  
Our Reference (TRIM): OUT14/34645

Dear Mr McTaggart

**Re: Notice of Development Application 41/2015 – Expansion of Westport Quarry, Narrabri**

Thank you for the opportunity to provide advice on the above matter. This is a response from the NSW Trade & Investment – Geological Survey of NSW (GSNSW).

The building and construction industries in NSW require ongoing replacement of supplies as sources are exhausted. The expansion of existing quarries, subject to environmental assessment, helps to ensure a continued supply of material for a range of building and construction uses in NSW. The resource in the subject area represents a locally important source of construction materials for the Narrabri Shire Council.

The GSNSW has reviewed the Environmental Impact Statement (EIS) and notes that no detail has been included in the EIS in regard to a resource assessment as requested by the GSNSW in the Director General's Requirements (DGRs). The resource assessment should ideally document:

- The size and quality of the resource and demonstrate that both have been adequately assessed.
- The methods used to assess the resource and its suitability for the intended application.

'Attachment A' provided with the GSNSW's DGRs outlines the issues which should be addressed in a resource assessment.

The GSNSW notes that there has been a long history of extraction at the site which should give the proponent a thorough understanding of the geology and characteristics of the material and therefore, the material's suitability for its intended applications. Given these factors, the GSNSW has no resource-related issues regarding the Westport Quarry expansion and supports the proposal to maximise resource recovery at the site.

NSW Department of Trade and Investment, Regional Infrastructure and Services  
RESOURCES & ENERGY DIVISION  
PO Box 344 Hunter Region Mail Centre NSW 2310  
Tel: 02 4931 6666 Fax: 02 4931 6726  
ABN 51 734 124 190  
[www.dtriris.nsw.gov.au](http://www.dtriris.nsw.gov.au)

The GSNSW also notes that no commitment was given to report annual production statistics to NSW Trade & Investment – Division of Resources & Energy, as was requested in the DGRs. This data is useful to the government and industry in planning and resource management.

### **Geoscience Information Services**

The GSNSW has a range of online data available on line through the following website address:

<http://www.resources.nsw.gov.au/geological/online-services>

This site hosts a range of data to enable research into exploration, land use and general geoscience topics. Additionally, the location of exploration and mining titles in NSW may be accessed by the general public using the following online utilities:

1. **MinView** allows on-line interactive display and query of exploration tenement information and geoscience data. It allows spatial selection, display and download of geological coverages, mineral deposits and mine locations, geophysical survey boundaries, drillhole locations, historical and current exploration title boundaries and other spatial datasets of New South Wales. This online service is available at:  
<http://www.resources.nsw.gov.au/geological/online-services/minview>
2. **NSW Titles** enables the public to access and view frequently updated titles mapping information across NSW. This online service is available at:  
<http://nswtitles.minerals.nsw.gov.au/nswtitles/>

Queries regarding the above information, and future requests for advice in relation to this matter, should be directed to the GSNSW Land Use team at [landuse.minerals@trade.nsw.gov.au](mailto:landuse.minerals@trade.nsw.gov.au).

Yours sincerely



Cressida Gilmore  
Team Leader - Land Use



Your reference : HM:HR:DA41/2015  
Our reference: : DOC14/210637-02  
Contact: : Mr Lindsay Fulloon - 02 6773 7000 - [amldale@epa.nsw.gov.au](mailto:amldale@epa.nsw.gov.au)  
Date : 10 October 2014

The General Manager  
Narrabri Shire Council  
PO Box 261  
NARRABRI NSW 2390

Attn: Hamish McTaggart

Dear Ms Hood

**DA 41/2015 – Westport Quarry, Part Lot 21 DP757083, Westport Road, Narrabri**

The NSW Environment Protection Authority (EPA) refers to the *Notice of Development Application 41/2015 – Designated Development* it received from Narrabri Shire Council on 22 September 2014, and the associated *Environmental Impact Statement for the Proposed Expansion of Westport Quarry Narrabri* (the EIS) prepared by SMK Consultants of Moree.

The EPA understands that the proposal is not considered as scheduled development under the provisions of the *Protection of the Environment Operations Act 1997* (PoEO Act) and therefore it will not require an environment protection licence (EPL). This also means that the EPA is not considered an approval body in the assessment process for this proposal. However, as Narrabri Shire Council is the proponent and operates the quarry, the EPA is the appropriate regulatory authority (ARA) in accordance with section 6 of the PoEO Act, and therefore will be responsible for regulating Council's activity on the site.

After reviewing the EIS, the EPA is concerned that the noise assessment appears to be seriously flawed. As the ARA for the site, the EPA will expect Council to comply with the *NSW Industrial Noise Policy* (INP). The assessment of noise impacts provided by SMK Consulting in the EIS has not addressed the requirements of the INP and is deficient in several respects:

1. It has incorrectly recommended the application of the INP's amenity criteria when the more conservative Intrusive Noise Criteria of 35 dB(A) should have been applied as the project specific noise level (PSNL) and noise limit for the development.
2. It has not assessed the cumulative impact of all noise sources that are likely to be present at the site during quarry operations (e.g. trucks, loaders, bulldozers as well as mobile crushing and screening equipment) nor their position relative to receptors and local topography, but has focussed solely on the supposed noisiest piece of equipment only (allegedly mobile crushing equipment).
3. The noise formula used to calculate the impact of the crusher at the nearest receptor appears erroneous and does not deliver the resulting figure of 55dB(A) quoted in the report at the nearest residence.

Email: [amldale@epa.nsw.gov.au](mailto:amldale@epa.nsw.gov.au)  
PO Box 494 Ammidale NSW 2350  
85 Faulkner Street, Ammidale NSW 2350  
Tel: (02) 6773 7000 Fax: (02) 6772 2336  
ABN 30 841 387 271  
[www.epa.nsw.gov.au](http://www.epa.nsw.gov.au)

4. It has not examined the influence of local meteorology on noise impacts at the nearest residences and unfavourable weather can significantly enhance impacts at such receptor locations.
5. It suggests that attenuation of noise from the crusher of up to 42 dB(A) is required without providing any explanation of how this figure has been calculated. Furthermore, it suggests that this level of attenuation should be provided by topography (i.e. positioning the crusher below ground level) and additional mounds of gravel materials to deflect the crusher noise. EPA experience suggests that these measures are unlikely to deliver this magnitude of noise attenuation at the nearest residence.
6. It has not assessed the impacts of heavy vehicle traffic along haul routes to and from the quarry in accordance with the *NSW Road Noise Policy*.

The EPA strongly recommends that Narrabri Shire Council engages the services of a suitably qualified noise assessment specialist to properly assess the noise impacts of the proposal in accordance with the requirements of the INP before determining this development application. If this does not occur and subsequent operations at the quarry trigger complaints from local residents, the EPA will need to intervene and find an appropriate regulatory solution to any contravention of relevant noise criteria in accordance with its responsibilities under the PoEO Act.

The EPA also notes that Council intends to operate the quarry site between the hours of 6:00am and 6:00pm Monday to Saturday. For the purposes of regulating noise impacts, the INP divides each day into three separate time periods, namely:

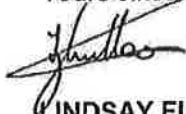
- Day – 7:00am to 6:00pm Monday to Saturday and 8:00am to 6:00pm Sundays and Public Holidays;
- Evening – The period from 6:00pm to 10:00pm; and
- Night – The period from 10:00pm to 7:00am Monday to Saturday and 10:00pm to 8:00am Sundays and Public Holidays.

By operating from 6:00am Monday to Saturday, Council may cause impacts during the INP night time period when then local residents are more likely to be disturbed by noise. Noise enhancing weather phenomena, like temperature inversions, are also more likely to be present during the night time period.

Furthermore, the INP applies additional sleep disturbance criteria during the night time period, and often the PSNL applying during the night are more stringent. From this perspective the EPA recommends that Council seriously considers applying hours of operation limit conditions to any development consent that limit quarry operations to the hours of 7:00am to 6:00pm Monday to Saturday.

Please contact Mr Lindsay Fulloon on (02) 6773 7000 or by email to [armidale@epa.nsw.gov.au](mailto:armidale@epa.nsw.gov.au) if you wish to discuss this matter.

Yours sincerely



LINDSAY FULLOON

Acting Head Regional Operations Unit - Armidale  
Environment Protection Authority

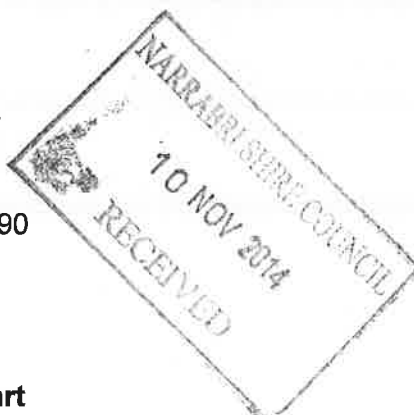




## NSW RURAL FIRE SERVICE



The General Manager  
Narrabri Shire Council  
PO Box 261  
NARRABRI NSW 2390



Your reference: DA 41/2015  
Our reference: D14/2806

5 November 2014

Attention: Mr Hamish McTaggart

Dear Mr McTaggart,

**Designated Development - Gravel Quarry, Lot 21 DP 757083, Westport Road, Narrabri**

I refer to your letter dated 18 September 2014 seeking advice regarding bush fire protection for the above designated development in accordance with Part 4 of the 'Environmental Planning and Assessment Act 1979'.

The Service provides the following recommended conditions:

### Evacuation and Emergency Management

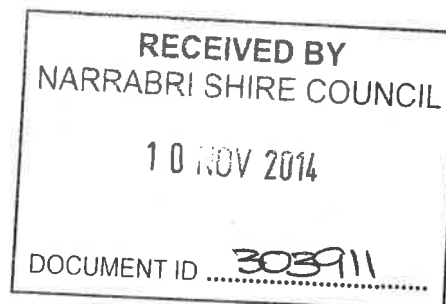
The intent of measures is to provide suitable emergency and evacuation (and relocation) arrangements for occupants of special fire protection purpose developments. To achieve this, the following conditions shall apply:

1. An emergency and evacuation plan addressing section 4.2.7 of 'Planning for Bush Fire Protection 2006' shall be prepared for the site and a copy of the plan shall be provided to the consent authority prior to the commencement of the development.

For any enquiries regarding this correspondence please contact Paul Creenaune on 6691 0400.

Yours faithfully,

**Alan Bawden**  
Team Leader – Development Assessment and Planning



Postal address  
NSW Rural Fire Service  
Records Management  
Locked Bag 17  
GRANVILLE NSW 2142

Street address  
NSW Rural Fire Service  
Coffs Harbour Customer Service  
Centre  
Suite 1, 129 West High Street  
COFFS HARBOUR NSW 2450

T (02) 6691 0400  
F (02) 6691 0499  
[www.rfs.nsw.gov.au](http://www.rfs.nsw.gov.au)  
Email: [csc@rfs.nsw.gov.au](mailto:csc@rfs.nsw.gov.au)