

Coraki Quarry

Transport Management Plan

Prepared for:

Quarry Solutions Pty Ltd



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1.0 INTRODUCTION

Quarry Solutions Pty Ltd (Quarry Solutions) recognises the need for safe, responsible and efficient transport of quarry materials in the interest of public benefit and safety. Quarry Solutions, as holders of Development Consent No. SSD 7036 (the consent) for the Coraki Quarry and the Environment Protection Licence 3397 (EPL) for the Petersons Quarry (which includes the Coraki Quarry), have prepared this Transport Management Plan (TMP) in accordance with Condition 27 of the consent. The TMP applies specifically to all trucks involved in the haulage of material extracted from the Coraki Quarry (Lot 401 DP633427) which is primarily for supply of quarry materials to the Pacific Highway Upgrade Project. The TMP does not apply to haulage of material extracted from the Petersons Quarry which supplies quarry materials to the general market.

The objectives of the TMP as per Schedule 3, Condition 27 of the consent are to:

- a) provide a clear description of the transport route;
- b) describe the processes in place for the control of truck movements;
- c) describe the measures to be implemented to minimise noise from transport operations;
- d) detail the procedures for receiving and addressing complaints from the community concerning traffic issues associated with heavy vehicles arriving at or leaving the development;
- e) describe the driver induction and training processes;
- f) include a Drivers' Code of Conduct that details the safe and quiet driving practices that must be used by drivers transporting products to and from the quarry, particular having regard to school bus routes, and the location of residential properties and associated private access roads; and
- g) describe the measures that would be put in place to ensure compliance with the Drivers' Code of Conduct.

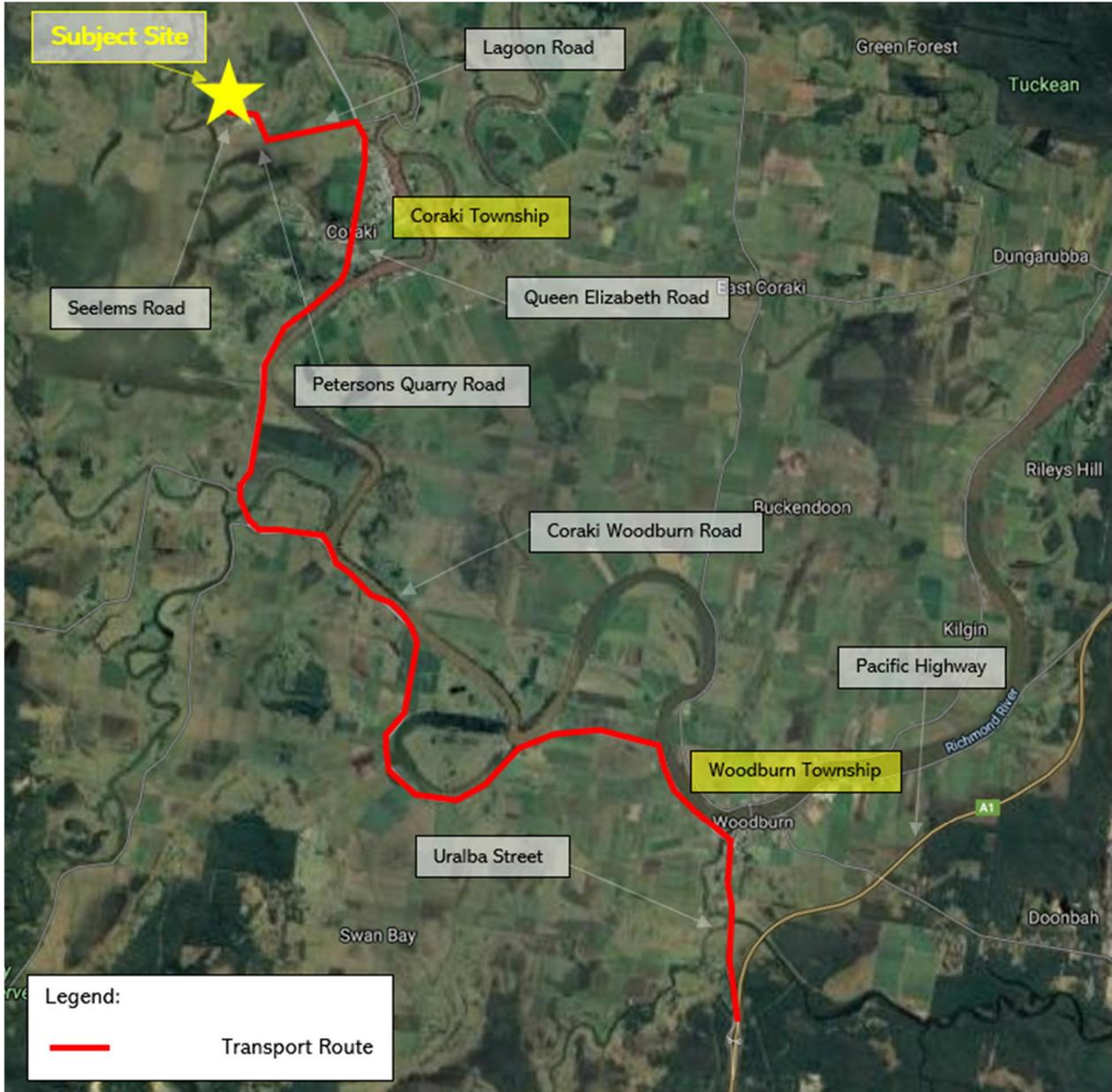
2.0 SITE DETAILS

Access:	Vehicular access is via Seelems Road and Petersons Quarry Road.
Site:	Lot 401 DP633427, Lot 402 DP802985, Lot 403 DP802985, Lot 408 DP1166287, Lot A DP397946, Lot A DP389418, Lot 3 DP701197, Lot 2 DP954593, Lot 1 DP954592, Lot 1 DP1165893 and Lot 1 DP310756.
Registered Proprietor:	<ul style="list-style-type: none">• Varoli Pty Ltd (ACN 003728229): Lot 401 DP633427• Richmond Valley Council: Lot 402 DP802985, Lot 403 DP802985, Lot 408 DP1166287, Lot A DP397946, Lot A DP389418, Lot 3 DP701197, Lot 2 DP954593, Lot 1 DP954592, Lot 1 DP1165893 and Lot 1 DP310756.
Current Land Use:	The site is currently used for cattle grazing and the existing Petersons Quarry.
Local Government Area:	Richmond Valley Council.

3.0 APPROVED TRANSPORT ROUTE

The haulage route to the Pacific Highway is via Petersons Quarry Road to Lagoon Road to Queen Elizabeth Drive to Woodburn Coraki Road to the Pacific Highway as shown on Figure 1 – Transport Route below. Richmond Valley Council is the relevant authority for all roads within the haulage route except for the Pacific Highway. Petersons Quarry Road is a sealed one-lane road and is also without a speed limit sign. Lagoon Road is a sealed (undivided) two-lane road with a posted speed limit of 100km/h. Queen Elizabeth Drive is a sealed (undivided) two-lane road with a speed limit of 80km except for the posted school zone. The Woodburn Coraki Road is a sealed (undivided) two-lane road with a posted speed limit of 100km/h.

FIGURE 1 – TRANSPORT ROUTE



Note: the Pacific Highway now bypasses Woodburn and the most direct route to and from the quarry to the Pacific Highway is via Uralba Street.

4.0 TRUCK MANAGEMENT MEASURES

The following truck management measures will be implemented by Quarry Solutions:

1. An incident/complaints register will be maintained by the Quarry Manager.
2. All drivers will be required to comply with the legislated road rules, including driver fatigue requirements and separation distances to other vehicles.
3. All drivers will be required to sign on to the Electronic Daily Prestart Management System at the weighbridge each morning or on first entry into the site.
4. In accordance with condition 22 of Schedule 3 of the development consent,

All laden trucks travelling from the development to the Pacific Highway must travel via Petersons Quarry Road, Lagoon Road, Casino – Coraki Road, Queen Elizabeth Drive and Coraki - Woodburn Road. Trucks returning to the site from the Pacific Highway must return via the same route and enter the development via Seelems Road or Petersons Quarry Road. This condition does not apply:

- a) *when road closures on the above route are in place;*
 - b) *when delivering to sites not involving travel on the Pacific Highway, such as within the local area or sites to the northwest or north of the quarry (eg Casino or Lismore); and*
 - c) *in an emergency to avoid the loss of lives, property and/or to prevent environmental harm.*
5. In accordance with condition 26 of Schedule 3 of the development consent, before leaving the quarry, all laden trucks exiting the site are to have their loads covered and be cleaned of materials that may fall on the road and have appropriate signage displayed so that they can be identified by road users.
 6. Haulage of quarry materials from the site will be limited to the approved hours of operation under the consent and the EPL. The weighbridge management software will be configured in a manner which will not issue a 'docket' to a driver outside of the approved hours of operation.
 7. Weighbridge records will keep accurate records of the amount of quarry materials transported by each vehicle.
 8. The weighbridge management software will be configured in a manner which will not issue a 'docket' to a driver if the vehicle weight exceeds the limits prescribed by the Heavy Vehicle (Mass, Dimension and Loading) National Regulation 2013.
 9. Implement a Driver Induction Procedure (refer Attachment 1 – Driver Induction Procedure).
 10. Implement and enforce compliance with a Driver's Code of Conduct (Attachment 2 – Driver's Code of Conduct). Compliance with the Driver's Code of Conduct will be enforced by a 'Two strikes and your out' policy administered by the Quarry Manager and reviewed by the General Manager in accordance with the Community Engagement and Complaints Procedure outlined in the Coraki Quarry Environmental Management System.
 11. Installation of forward and driver facing cameras on haulage trucks managed by Quarry Solutions.
 12. Installation of GPS monitoring devices on haulage trucks managed by Quarry Solutions. Each GPS monitoring unit is installed on the truck. A GPS 'fob' or 'key' is assigned to an individual driver as per the Driver Induction Procedure. The driver logs on to the GPS monitoring unit on the truck prior to commencing each shift. The GPS monitoring unit tracks the vehicle location, speed, exceedance of speed limits and harsh vehicle movement and braking as well as mapping the location of any potential incident or infringement to assist in future investigations. In the event of an incident or infringement (e.g. exceedance of speed limit) alerts are sent immediately by email and 'phone app' to the Quarry Manager, Operations Manager, Transport Manager and General Manager. All alerts provide detailed information including, date, time, nature of the infringement, driver name, truck registration and type and the location of the event.
 13. Paying for the installation of GPS monitoring unit on all local school buses using the haulage route where permission is provided. Each GPS monitoring unit fitted to a school bus enables tracking and interaction with the GPS monitoring unit in each truck. The GPS monitoring system is configured to send an alert to a truck driver traveling in the same direction as a school bus when the truck comes within 500m of the school bus. The alert is in the form of a beep audible only to the truck driver and not the school bus driver. Being alerted of the nearby school bus the truck driver is to reduce speed and be alert and maintain a minimum 50m separation distance to the school bus. If the 50m separation distance is encroached an alert is generated and the infringement will be investigated. In the event that the school bus stops the truck is also to stop and not pass the school bus. If the truck does pass the school bus an alert is generated and the infringement will be investigated. The GPS tracking system is intelligent and also alerts a truck traveling in the opposite direction of a school bus when it is approaching the school bus, but the alert will not be triggered when the truck passes the school bus in the opposite direction.

5.0 TRUCK NOISE MANAGEMENT MEASURES

The following truck noise management measures will be implemented by Quarry Solutions:

1. Require drivers to appropriately cover/secure loads.
2. Require drivers to comply with posted speed limits on all roads.
3. Require drivers to only use horn when appropriate do to so.
4. Require drivers to limit engine brake noise in residential areas.
5. Require drivers to reduce truck speed in residential areas, at road works and when passing stationary vehicles.
6. Preference to rely upon modern trucks with Euro 5 and Euro 6 compliant engines
7. Preference to rely upon modern trucks with airbag suspension

These management measures will be implemented and enforced through the Driver's Code of Conduct.

6.0 COMMUNITY ENGAGEMENT AND COMPLAINTS PROCEDURE

Refer to the Coraki Quarry Environmental Management Strategy for the community engagement, complaints and incident procedure which applies to all aspects of the quarry.

7.0 CORRECTIVE ACTION

The Quarry Manager shall take appropriate action to rectify problems or any identified deficiencies in accordance with the requirements of the Community Engagement, Complaints and Incidents Procedure in the Coraki Quarry Environmental Management Strategy.

8.0 CONTINGENCY PLAN

In the event of unpredicted impacts, the Quarry Manager shall investigate the potential cause in accordance with the Community Engagement, Complaints and Incidents Procedure. The Quarry Manager shall undertake appropriate action to rectify any identified deficiencies in the management measures immediately. The Quarry Manager may request the services of a specialist consultant to investigate and to give advice to assist in resolving the unpredicted impacts.

9.0 DRIVER INDUCTION PROCEDURE

Prior to commencing work a Driver will be subject to the Quarry Solutions Driver Induction through the 'Checklist of Cartage Subcontractor Documentation' Form. Item D3 of the Checklist requires the Quarry Solutions site induction to occur. The Quarry Manager will be responsible for the site induction and will inform the Driver of the following details:

- The approved transport route for the Coraki Quarry
- The approved hours of operation of the Coraki Quarry
- The Community Engagement, Complaints and Incidents Procedure contained in the Coraki Quarry Environmental Management System
- The procedures for interaction with school buses and the GPS monitoring system
- The terms of the Drivers Code of Conduct
- The 'two strikes and your out' policy regarding the Drivers Code of Conduct
- The Drivers Code of Conduct will be enforced through random inspections prior to issuing a 'docket' from the weighbridge or through review in response to a complaint; and
- Occupational, Health and Safety briefing information for the site

10.0 AUDITING AND REVIEW

The Quarry Manager shall review this management plan and its management measures to confirm their effectiveness and investigate ways to improve environment performance over time plan at least once every year at the time of completing the Annual Review as required by Schedule 5, Condition 9 of the development consent.

11.0 SUMMARY

Quarry Solutions recognises the need for safe, responsible and efficient transport of quarry materials in the interest of public benefit and safety. Quarry Solutions, through the Driver Induction Procedure will ensure that all truck drivers commit to the Driver's Code of Conduct which will be strictly administered by the Quarry Manager and General Manager. The implementation of the measures outlined in this TMP will minimise impacts to the community from haulage of quarry materials from the Coraki Quarry.

attachments

Attachment 1

Driver Induction Procedure



CHECKLIST OF CARTAGE SUBCONTRACTOR DOCUMENTATION

Subcontractor Name:		Phone No:	
Contact Name:		Job No: 32-1	Date:
No of Trucks:	No of Trailers:	No of Drivers:	

Ü	ITEM	STATUS / COMMENTS
	A. Subcontractor Systems Checklist	
A1	Complete 14-B1-04 Subcontractor Checklist	
	B. Vehicle Registrations	
B1	Current Registration Certificate for trucks and trailers	
B2	Maintenance Records for trucks and trailers	
B3	Maintenance Schedule for trucks and trailers	
B4	Registration Labels visually inspected	
	C. Vehicle Inspections	
C1	Current Heavy Vehicle Safety Inspection for trucks and trailers	
C2	Quarry Solutions / SEE Civil Vehicle Inspection	
	D. Driver Inductions and Licencing	
D1	Current Heavy Vehicle Drivers Licences	
D2	Pacific Complete Inductions	
D3	Quarry Solutions/SEE Civil Site Inductions	

Review & Approval BY Quarry Solutions PTY LTD		
When approved include in SEE IMS A7 Procurement, 7.2 Approval Records for each Subcontractor		

A =	ACCEPTED	All works may commence
P =	PROVISIONAL ACCEPTANCE	Only some aspects of the works may commence
N =	NOT ACCEPTED	No work may commence

QUARRY SOLUTIONS USE ONLY – REVIEW STATUS RECORDS				
Date reviewed	A,P or N	Comments	Reviewed by	Signature



GPS Transfer Authority

SEE Civil Pty Ltd
Quarry Solutions Pty Ltd
24A Ozone Street Chinderah NSW 2487
Ph: 02 6671 2300



The Fleet Office IVMS1 GPS Tracking System



Complete the form below to transfer ownership of the IVMS1 unit from Quarry Solutions to your nominated company.

IVMS Unit ID: _____

Company Name: _____

Vehicle Rego: _____

Vehicle Make: _____

Vehicle Model: _____

Vehicle Unit Number: _____

By signing below, you acknowledge that Quarry Solutions will have the capability to track the movements of your vehicle. The tracker will only be activated once the vehicle enters a Quarry Solutions site and only authorised personnel will be able to track vehicle movements for the following 14-hour period.

Name: _____

Signature: _____

Position: _____

*This form **MUST** be completed and returned to petersons@quarrysolutions.com.au You may then install your IVMS1 unit following the supplied instructions. This form will be forwarded to The Fleet Office and they will be in contact to link up your IVMS unit to the network. All IVMS units are to be hard wired with no isolation switch. All trucks will be audited for compliance. Trucks which are found to have an isolation switch will be deemed to be non-compliant.*

For further information visit www.thefleetoffice.com.au



GPS Transfer Authority

SEE Civil Pty Ltd
Quarry Solutions Pty Ltd
24A Ozone Street Chinderah NSW 2487
Ph: 02 6671 2300



Pacific Complete IVMS Specifications

The aim of this brief is to outline the IVMS specifications for SEE Civil & Quarry Solutions during the Pacific Complete works. Subcontractors must ensure all drivers operating on these sites are informed on the below specifications to comply with Pacific Complete requirements.

Detailed Specification

Fatigue management – The devices are to alert a driver (Light vehicles only) when he/she is approaching 2 hours of continuous driving. This is done in cab by actioning a series of short beeps/light flashes in the cab. A report will also be sent to say the driver has been warned.

If the driver exceeds 2 hours of continuous driving, the buzzer/light will continuously sound. A report will be sent to confirm this. The alarm can be silenced by changing driver, or will stop at the end of a 2-hour rest period. Note: the engine must be switched off to count as a rest period.

Speeding – All reports from the trackers are sent to our Google Maps API where they are checked against gazetted speed limits. A report will only be sent if the driver exceeds the speed limit by 10% for a period of longer than 10 seconds. All school zones must be adhered to.

Harsh driving – The devices have 3 way accelerometers which measures acceleration in any axis. They are programmed to send a report if the force in any given direction exceeds 17kph/sec.

Roll Over – In the event that an asset rolls over (Tilts more than 90 degrees) the device will send a report.

Seat Belt – If a driver exceeds a speed of 10kph for longer than one minute without a seatbelt being worn a report is sent.

Driver ID – A driver is expected to sign in before starting the vehicle, this is done by holding the ID key against the reader. When a driver does this, the indicator light in the vehicle will turn green and a single long beep will be given. The driver then has 5 mins to start the vehicle. If the vehicle is turned off for any reason, the driver will have 60 seconds to re-start the vehicle before needing to use the ID key again. If a driver fails to use the ID key and starts the vehicle, a buzzer will sound continuously until such a time that a driver signs in, and a report is sent.

Emergency Duress – A button or toggle switch with cover is placed in easy reach of the driver. In the case of an emergency, the driver can depress the button and a report will be instantly sent. If the button is pressed again the alert is cancelled and a report to this effect is also sent. Whilst the button is depressed the light and buzzer will continuously sound/flash at a rate of 4 times per second.

School Bus Interaction – (Trucks Only) When a Truck approaches a bus from behind and gets within 500m, the buzzer will sound and the light will flash at a rate of 1 x per sec. This acts as a warning that the bus is in front of the vehicle. If the truck gets closer and enters within 50m of the bus, the alarm/light will go to solid buzz/light at this point a "Too close to bus" alert will be sent via email to those you wish to receive it. When heading in opposite directions and the Truck/Bus get within 500m of each other, the buzzer will sound/light flash at a rate of 4 x per second. There is no further alert when the Bus and Truck get closer as they will have to pass each other. As soon as the 2 vehicles pass the buzzer/light will silence.

Summary - These rules are subject to change; all script changes must be done in consultation with The Fleet Office.

Attachment 2

Driver's Code of Conduct



Driver Code of Conduct

Petersons and Coraki Quarry – J32-1
Petersons Quarry Road, Coraki, NSW 2471

Quarry Solutions Pty Ltd ABN - 13 133 700 848
24a Ozone St Chinderah NSW 2487 – Ph. 0266 712 300

Quarry Solutions Pty Ltd recognises the need for safe, responsible and efficient transport of quarry materials in the interest of public benefit and safety. Any truck driver who enters or leaves the Petersons Quarry and the Coraki Quarry is expected to respect the community in which they drive, and adopt the following code of conduct.

Objective

Work together to maximise safety in road haulage and minimise the impact of trucks on other road users and the surrounding communities

Drivers Code of Conduct

1. Acknowledge this Driver Code of Conduct is enforced as a 'Two Strikes and your out' policy
2. Adhere to the Coraki Quarry Community Engagement, Complaints and Incidents Procedure
3. When transporting material from Coraki Quarry to the Pacific Highway Upgrade Project use only the approved Transport Route of Petersons Quarry Road to Lagoon Road to Queen Elizabeth Drive to Woodburn Coraki Road to the Pacific Highway at Woodburn
4. Present to the Quarry Site Office to sign on to the Daily Toolbox on first entry into the quarry
5. Abide by OS Drug & Alcohol Policy by presenting to work with 0.00 BAC
6. Adhere to Site Operating Conditions for Traffic Management and Noise Restrictions and Operating Hours (arriving at or leaving the quarry as directed by QS Management i:e 31 trucks per hour for Coraki)
7. Strictly comply with all traffic rules and regulations
8. Report all incidents and accidents no matter how minor
9. Ensure there is no loading over registered gross mass
10. Appropriately cover and secure loads before leaving the quarry site
11. Ensure drawbars, tailgates, rails and duals are clear of rocks before leaving the quarry site
12. Maintain appropriate signage to enable identification by road users in the event of a complaint
13. Comply with all posted speed limits on all roads (Coraki-Woodburn Road is sign posted at 100kph but has been restricted to 90kpm and is geo-fenced accordingly on the Fleet Office)
14. Comply with the School Zones and follow the bus interaction guidelines on Fleet Office IVMS
15. Always drive in a manner that is in accordance with road conditions
16. Only use horn only when appropriate to do so
17. Be aware that we start early and not all the community start as early as we do
18. Decrease truck speeds to minimise dust and noise around private dwellings, road works, men on the ground and stationery vehicles
19. Reduce engine brake noise to respect the community through which they are driving
20. In the event of an environmental incident, make sure every endeavour is taken to contain and minimise environmental harm
21. Respect the environment by not littering
22. Encourage professional and appropriate use of two-way radios
23. Remain calm and courteous when in contact with other road users and members of the public
24. Acknowledge courteous acts by others

Non-compliance with this code of conduct under the 'Two strikes and your out policy' will result in a review by QS Management and may result in a refusal to load out from QS Sites in future. Compliance will be assessed in the event of a complaint, incident or emergency and may also be subject to random inspection prior to issue of a 'docket' from the weighbridge.