



Newcombe Road Sand Quarry

Management Plan

Version 1

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Approved for issue _____ / ____ / ____



Next review date:

Compliance Plan Version Control

Version Number	Reason for changes	Approved By WDC	Approved By WRC



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1 PURPOSE OF A COMPLIANCE PLAN

This document represents the current best practice compliance plan for the application issued for the sand extraction at RS Sand's Newcombe Road site (refer Appendix A). The purpose of this plan is to ensure that operations and environmental risks are managed appropriately, based on the information and recommendations provided by experts in their fields, that form the AEE for consenting and conditions **(to be)** laid out in the consents.

All reviews and changes **MUST** be approved by **controlling authorities** the Waikato Regional Council (WRC), Waipa District Council (WDC) and others before implementation

ALL actions in this management plan will be entered into the RS Sand Consent Management System, and treated as individual consent conditions

1.1 Site Process

The site operates as a sand quarry with operations including

1. Operations
 - Sand extraction, processing and sales.
 - Control of dust, noise, stormwater and traffic
2. Projects
 - Sand processing plant construction
 - Process water recycling systems
 - Overburden stripping and bund construction
 - Remediation
 - Erosion and sediment controls
 - Access road, office, workshop and parking construction
 - Planting of bunds and riparian areas
3. Monitoring
 - Control of dust, noise, stormwater and traffic
 - Flora and fauna

1.2 Emergency Contact Numbers

In an emergency event, which may include:

- Environmental compliance
- Civil defence

A list of key contacts is shown as Appendix B.

2 OPERATIONS

2.1 Hours of Operation

The hours of operation will vary dependent on the construction season

The site will be open from¹
7:00am to 7:00pm Monday to Friday
7:00am to 12:00pm Saturday
Closed on Sunday and on public holidays

2.1.1 Site access

An entranceway will be established from Newcombe Road. The Site Manager² will monitor the conditions of the access road as part of the quarry inspections. Looking for wear and tear on the access road, signs of sediment tracking and visibility issues when turning onto Newcombe Road.

2.2 Limitations on Truck Movements

There will be an average of 71 trucks per weekday (142 truck movements³) and up to a maximum of 200 trucks on the busiest day (400 truck movements).

2.3 Noise

2.3.1 Plant and Machinery

Machinery and plant will be monitored during operation to ensure that no excessive noise is being generated. The site manager is to ensure that all contractor and customer vehicles/machinery comply with site machinery rules.

2.4 Dust

The site is to be managed to ensure no particulate matter is released outside the boundaries⁴ of the land leased for the Quarry that is deemed a nuisance or objectionable⁵

The Site Manager will ensure

- The site entrance is inspected **daily** to ensure it is clear of debris
- A water cart is used during dry conditions
- Stockpiles to be monitored **daily** to ensure wind is not creating dust plumes from these static piles. This can be managed by either wetting stockpiles or using the hose on the water cart
- All exposed areas are monitored or stabilised to ensure dust is not objectionable beyond the boundary of the quarry
 - Re-vegetation (grass) will occur as part of the rehabilitation of each stage.

1. Open includes all on site operations and sales

2. The Site Manager or agent (could be a crushing/ earthworks contractor)

3. A truck movement is defined as a truck travelling to or from the quarry. One truck entering and then exiting the quarry is counted as two truck movements

4. The boundary is defined as the land leased for Quarry operations to RS Sand attached as Appendix D

5. The term objectionable is defined by 2.4.1

2.4.1 Compliance monitoring

The Site Manager shall ensure that dust levels are kept to a minimum, to the effect that there are no objectionable dust discharges beyond the boundary of the site

In determining “objectionable”, the Regional Council officer will determine

- *The frequency, intensity, duration, location, and effect of the dust emission and/or*
- *Receipt of complaints from neighbours or the public and/or*
- *Where a relevant written advice from an experienced officer of the Waikato District Council or the Waikato District Health Board has been issued*

2.4.2 Dust contingency plan

Should dust become a nuisance as defined by 2.4.1, then the Site Manager will attempt to mitigate the dust by either

- Stopping the work that is causing the dust⁶
- Increasing the frequency and / or volume of water applied to dust generating areas
- Wetting stockpiles (will help loading dust issues)
- Progressively stabilise work areas with hydro seed and/or mulch

2.5 Stormwater

2.5.1 General

Operational stormwater from the site is defined as contaminated⁷ and non-contaminated⁸

2.5.2 Non-contaminated stormwater

Is defined as

- Diverted water upslope from the operational area
- Water runoff from surrounding grassed paddocks

The Site Manager will **check these areas weekly** to ensure that there is no silt contamination present

If a contamination is found, this is to be remedied “as soon as practicable” and recorded on a Case and Action Management system (CAMs) report⁹

2.5.3 Contaminated stormwater

An Erosion and Sediment Control Plan (ESCP) will be developed for this site.

To ensure that the erosion and sediment control measures are always effective, the Site Manager shall

6. *Some project work may need to be stopped if there is excessive dust created*

7. *Contaminated means anything that has been in contact with the active exposed soil and is likely to carry sediments*

8. *Non-Contaminated means clean natural paddock run-off*

9. *CAMs sheet attached in Appendix C*

- Ensure the ponds are maintained to **a minimum of 80% design capacity prior to large rain events**
- Ensure that all contaminated run-off is reaching the silt ponds
- Check to ensure there **is no visible oil or scums** forming in the ponds
- **Ensure no discharge bypasses the treatment processes**
- Ensure that there are **no hazardous discharges** from the ponds at any time
- Ensure that exposed areas completed to finished levels are **reinstated as soon as practicable**
- Ensure all machinery is located in a position so that there is no risk during parking, fuelling and oiling that a discharge can reach either of the stormwater management systems

2.5.4 Stormwater contingencies

If there is a discharge of silt or fuel/oil during the operation, then the Site Manager will

1. Identify the cause
2. Remedy the non-complying discharge by¹⁰ either
 - a. Installing hay bales, or similar, to filter sediment
 - b. Repair silt ponds if required
 - c. Add additional bunds if contaminated stormwater is bypassing the treatment pond
 - d. Bunding the vehicle storage area and removing contaminated soils to a consented waste facility
 - e. Cap and seal completed areas with topsoil and grass
3. Record this event on the weekly check sheet¹¹ **and a CAMs report**
4. Advise WRC and WDC within 48 hours of
 - a. What happened
 - b. How it was remedied
 - c. Steps to stop it happening again

2.6 Hazardous Substances

Substances kept on site are

- Fully bunded fuel tank, within earth bunded processing area
- Sealed shipping container with Oils/grease

2.6.1 Spill Prevention

The Quarry Manager to check the fuel tank and the Oil and Grease container **at least weekly** and when the re-fuelling truck is on site

If a spill occurs it is unlikely to get to the stream due to the earth bunding around the processing area

Actions in case of a spill include

- Bund the immediate area with low permeability material
- Use absorbent pads and socks to soak up spilled material
- Removed the contaminated soil off site to a consented waste facility
- Advise both Councils within 24 hours
- Report as a CAMs

10. Remedied means immediately and systems should be put in place to ensure does not happen again

11. Check Sheets attached as Appendix C

2.7 Water Take

Extraction of groundwater is required to operate the plant and suppress dust associated with the proposed quarry. The required daily take is likely to be a maximum of 1,200m³, or 360,000m³ per annum in the unlikely event the full amount is taken every day. The groundwater take sought considers the percentage of areas expected to open at any one time and comprises of the following:

- 600m³ water per day at 185 litres per second for the processing plant.
- 600m³ water per day for dust suppression

Daily pumping data will be collected and reported.

3 OVERBURDEN RELOCATION

All on site overburden will be kept for use in the rehabilitation of completed extraction stages.

Overburden from the plant area will be used to form bunding along the western and southern boundaries of the pit area, the eastern boundary of the plant area and the internal access road from Newcombe Road to screen the activities.

Overburden from Stage 1 will be placed along the northern boundary of Stage 2 up to 5m high (in relation to existing ground level) and re-grassed for screening and storage for the future reinstatement of Stage 1.

12. *Koiwi* - means physical skeletal human remains;

4 MONITORING & REPORTING

4.1 Accidental Discovery

In the event of any archaeological site or koiwi¹² being uncovered during the exercise of this consent, activities in the vicinity of the discovery shall cease and the Waikato Regional Council and Heritage New Zealand shall be notified as soon as practicable and within 48 hours of a discovery.

The consent holder shall consult with the relevant iwi/hapū and Heritage New Zealand, and shall not recommence works in the area of the discovery until the relevant Heritage New Zealand approvals or other approvals to damage, destroy or modify such sites have been obtained where necessary.

Works may recommence with the written approval of the Waikato Regional Council. Such approval shall only be given after the Council has considered:

- a) Tāngata Whenua interests and values;
- b) Protocols agreed upon by Tāngata Whenua and the consent holder;
- c) The consent holders interests;
- d) Any Heritage New Zealand authorisations; and,
- e) Any archaeological or scientific evidence.

4.2 Monitoring

4.2.1 Water

Samples will be taken from approved monitoring points, such as:

13. Measured at the end of the pipe prior to discharge

14. The cause could include "excessive rainfall", "stream bank failure", "Sediment control failure", upstream failure

15. Received means the public or Council(s)

- Upstream of the site
- Downstream of the site
- Sediment Retention Ponds¹³
- Samples to be tested for
 - Suspended Solids
 - Turbidity

In the unlikely event of a non-compliance, the Site Manager is to investigate the cause¹⁴ and report a CAMs and forward to a copy to the relevant authority.

4.2.2 Complaint monitoring

When / if any complaints are received¹⁵, the consent holder shall notify the relevant Council(s) (may be both) of those complaints within 24 hours by phone or e-mail, and send a report (CAMs) to the Council(s) within 5 working days.

When / if complaints are received, the consent holder shall record the following details in a CAMs (complaint log):

- (i) Time and type of complaint including details of the incident, e.g. duration, any effects noted;
- (ii) Name, address and contact phone number of the complainant (if provided);
- (iii) Location from which the complaint arose;
- (iv) The weather conditions and wind direction at the time of complaint;
- (v) The likely cause of the complaint;
- (vi) The response by the consent holder and any corrective action undertaken by the consent holder in response to the complaint; and
- (vii) Future actions proposed as a result of the complaint.

4.2.3 Compliance monitoring

Reporting non-compliance with consent conditions will use the same timelines as set out in 4.2.2 above, and should include

- (viii) Date and time of non-compliance
- (ix) Duration, any effects noted;
- (x) Location
- (xi) The weather conditions and wind speed/direction at the time;
- (xii) The cause of the non-compliance;
- (xiii) Any corrective action undertaken
- (xiv) Future actions proposed as a result of the non-compliance.

4.3 Reports

Reporting on quarry operations, monitoring data, any complaints received and any recorded non-compliances will be reported to the Regulatory Authorities, Mana Whenua and community liaison group, as required.

Appendix A – Resource Consents

(as at the date of this Management Plan and subject to change via the normal RMA processes.)

N/A

Appendix B – Newcombe Road Sand Quarry Emergency Contacts NOTIFICATION NUMBERS

EXTERNAL

Waikato Regional Council (WRC)	0800 800 401
Waipa District Council (WDC)	0800 924 723
Mana Whenua (Ngati Koroki Kahukora)	021 178 0208
Community Liaison Group	
Emergency Services	111

INTERNAL

Arthur Fulton	027 437 2379
Trevor McLaughlin	021 220 9033

Appendix C – Check sheets (operational)

tba

Appendix D – Site property boundaries

Appendix E – Water monitoring points

tba

Appendix F – Erosion and Sediment controls

tba

Appendix G – Mining Plan