

Drilling and construction of a bore

Controlled Activity Application technical memo Natural Resources & Specialist Input Unit

1.0 APPLICATION DESCRIPTION

Application and Property Details

Applicant's Name:	Three Blokes Limited
Application Number:	REG-64137
NRSI Number:	44164
File Number:	C512-12-5549
Bore Identification Number:	29798
Drilling Contractor:	Kiwiwell Drillers NZ Kevin Brown Limited
Site Address/Location:	362 Matakana Valley Road, Matakana.
Map Reference:	1752710 mE, 5977442 mN
Legal Description:	Part Allotment 51 Parish of Matakana and Section 1 Survey Office Plan 400726
Plan(s):	Proposed Auckland Unitary Plan (PAUP) And Auckland Council Regional Plan : Air, Land and Water (ACRP:ALW)
Rules:	PAUP Rules H 4.17.3.21 & 4.1 and ACRP:ALW Plan Rules 6.5.25 & 6.5.27

2.0 PROPOSAL

Purpose	Industry – Water Truck Supply
Bore Depth (m)	85-140
Bore Diameter (mm)	104
Casing Depth (m) & material	40-45, PVC
Grouting length (m)	30
Aquifer	Waitemata Sandstone
Aquifer management area	North East Groundwater
High Use	No

The applicant proposes to take up to 20 cubic meters per day for use in truck water supply purposes which can be covered under a permitted activity Water Take. Any quantity more than 20 cubic meters per day requires consent.

3.0 LOCALITY PLAN

The site is located at 362 Matakana Valley Road, Matakana, and is shown in the map below.



4.0 TECHNICAL ASSESSMENT

Auckland Council has reserved its control to the following matters listed in ACRP: ALW Rule: 6.5.27.

The location, depth and design of the bore and the design of the head works

The proposed bore is approximately 210 meters away from the nearest neighbouring bore (ID 21440) at 338 Matakana Valley Road, Matakana. Further details of this bore are unavailable.

This property has been identified as a potentially contaminated site. There are no known contaminated sites, or storage tanks near to the proposed bore site according to the information supplied by the applicant's consultant. To ensure groundwater quality is not adversely affected, the recommended conditions require grouting/sealing of the casing and the construction of a concrete pad around the head of the bore to prevent contaminants entering the aquifer.

The location, depth and design of the bore and the design of the head works is appropriate and will not lead to adverse effects.

The provision for bore identification

For Resource management and administrative purposes, the bore should be labelled with a Bore Identification Number etched into the outer PVC casing for bores cased in PVC or engraved on steel cased bores (Condition 9).

Maintenance of the bore

The bore is to be constructed and maintained and records kept in accordance with NZS 4411:2001, Environmental Standard for Drilling of Soil and Rock

Monitoring and reporting requirements

The consent holder must notify to the Council on the commencement of all works undertaken in association with the bore construction and a copy of the Drillers Log, as specified in NZS 4411:2001 Environmental Standard for Drilling of Soil and Rock, must be submitted to the Manager, within one month of final completion of the bore.

The duration of the consent and the timing and nature of reviews of consent conditions.

It is considered appropriate to set one year duration of consent, recognising it takes a short period of time to drill a bore (required to be completed within 30 days), but providing flexibility as to when the activity may occur.

5.0 RECOMMENDED CONDITIONS AND ADVICE NOTES

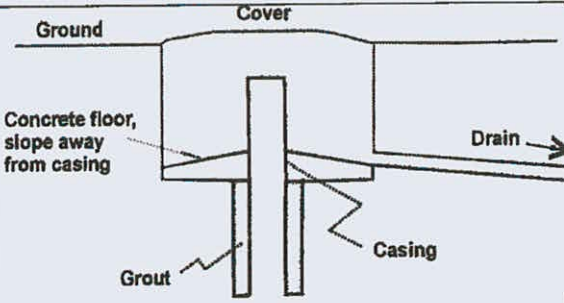
Under section 108 of the RMA, this consent is subject to the following conditions:

1. This consent shall expire 14 March 2016 unless it has lapsed, been surrendered or been cancelled at an earlier date, pursuant to the RMA 1991.
2. This consent (or any part thereof) shall not commence until such time as the following charges, which are owing at the time the Council's decision is notified, have been paid in full:
 - (a) All fixed charges relating to the receiving, processing and granting of this resource consent under section 36(1) of the Resource Management Act 1991 (RMA); and
 - (b) All additional charges imposed under section 36(3) of the RMA to enable the Council to recover its actual and reasonable costs in respect of this application, which are beyond challenge.
3. The consent holder shall pay any subsequent further charges imposed under section 36 of the RMA relating to the receiving, processing and granting of this resource consent within 20 days of receipt of notification of a requirement to pay the same, provided that, in the case of any additional charges under section 36(3) of the RMA that are subject to challenge, the consent holder shall pay such amount as is determined by that process to be due and owing, within 20 days of receipt of the relevant decision.
4. The servants or agents of the AC shall be permitted access to the relevant parts of the property at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.
5. The Manager shall be notified within 24 hours of the commencement of all work undertaken in association with the construction of the bore.

6. The drilling and construction shall be carried out in accordance with the plans and all information submitted with the application, the detailed proposal (section 2 of this report) and NZS 4411:2001 Environmental Standard for Drilling of Soil and Rock. The well head should be secure against the potential for increase of contamination from the surface (See Advice Note 3).
7. The bore shall be for use in industrial water supply purposes and constructed to 104mm diameter, to a depth of 85-140m and install PVC casing to a minimum of 40-45m depth and grouted to 30m. The bore is to be completed into the Waitemata Sandstone aquifer at 1752710 mE, 5977442 mN map reference. There shall be no variation due to unforeseen site conditions unless prior written approval of the Manager is obtained.
8. The bore shall be completed within 30 days of commencement of the construction of it.
9. The bore identification number 29798 shall be permanently affixed to the bore head construction and a digital photograph of the constructed bore shall be taken and forwarded to the Team Leader, Water Allocation which clearly demonstrates compliance.
10. Confirmation of the final location of the bore in the form an annotated map or aerial photograph downloaded from the Auckland Council viewer shall be supplied to the Team leader, Water Allocation within a month of final completion of the bore.
11. If, during preparation for or drilling of the bore, archaeological evidence is uncovered (e.g.: shell midden, hangi or ovens, or human bones), work shall cease immediately and the Team leader Water Allocation shall be notified and AC Archaeologist contacted to ensure that the appropriate action is undertaken, (see Advice Note 2).
12. A Drilling Log, shall be recorded, as specified in NZS 4411:2001 Environmental Standard for Drilling of Soil and Rock, Section 4.3, and shall be supplied to the Manager, within one month of final completion of the bore.

6.0 ADVICE NOTES

1. A copy of this consent should be held on site at all times during the establishment and construction phase of the activity.
2. This consent does not relieve the consent holder of his/her responsibility to apply for any other consents which may be required by the Auckland Council and/or New Zealand Historic Places Trust. This consent is issued under the Resource Management Act 1991 and does not remove the need to comply with all other applicable Acts (including the Property Law Act), regulations, Bylaws, and rules of law.
3. The following bore headworks are considered acceptable to meet the NZS 4411:2001 Environmental Standard for Drilling of Soil and Rock.

Above ground	below ground
- The top of the casing shall extend at least 0.3m above the natural ground level or pump house floor - A concrete pad of 0.3m radius and 0.1m thick, graded to drain surface water away from the bore, is to be constructed around the bore head	 The diagram illustrates the bore headworks. It shows a cross-section of the ground. A vertical casing is shown with grout around its base. Above the casing is a concrete floor sloping away from the casing towards a drain. A cover is shown on top of the casing.

4. Regarding access for water level measurement, as required in the NZS 4411:2001 Section 2.5.5.7, the following is considered to meet the standard: the strapping of a 20mm (minimum) tube (polypipe) to the main riser, power and support stay for the pump; the provision of a hole in the headworks of a minimum of 20mm diameter; and a removable, screw-type cap.
5. If you disagree with any additional charges relating to the processing of the application you have a right of objection under Sec 357B of RMA. Any objection must be made in writing to Council within 15 working days of notification of the decision.
6. Groundwater supplied for human consumption should meet the requirements of the Drinking Water Standards for New Zealand (2005), and any other Ministry of Health

requirements, such as those contained in the Health (Drinking Water) Amendment Act 2007.

Report by:

Reginald Samuel



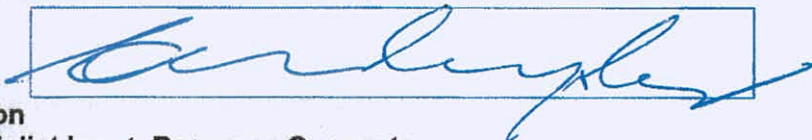
**Consent & Compliance Advisor
Natural Resources and Specialist Input, Resource Consents**

Date:

04/03/2015

Signed under Delegated Authority

Greg Murphy



**Team Leader, Water Allocation
Natural Resources and Specialist Input, Resource Consents**

Date:

05/03/2015