

From: [WaterRaces](#)
To: [Simon Hedley](#)
Subject: Water Race Relocation - Conservators Road - VN2351063200
Date: Tuesday, 11 June 2019 7:59:33 AM
Attachments: [WR 8.0 -Lining-Requirements.pdf](#)
[before u dig - 3rd Page.pdf](#)
[SOL Relocation.pdf](#)

Hi Simon

Thank you for your application to relocate the water race on property SOL Quarries Ltd at 93-133 Conservators Road in Yaldhurst. (VN;2351063200)

I am happy to approve this relocation on property (VN;2351063200) Conservators Road with the standard following conditions.

Should any issues arise downstream we will need to get you back in to fix any issues.

1. Any costs associated, including any supervision, with the relocation will be at the applicant's expense.
2. Relocation of the water race shall not have a detrimental effect on any other water race users or the water race system. This include keeping access to the race following works completion.
3. The location of the re-routed water race is as per the site plans, and site walk over with Daniel Meehan, Simon Headley (Land and survey Ltd) on 9th April 2019. The relocation must be within the boundary of your property and as per the plan supplied to SDC in this application.
4. All new culverts associated with the relocation must be no smaller than 600mm Ø. All new culverts must have inlet and outlet headwalls.
Internal culverts may be installed with bagged headwalls, although precast headwalls are preferred and any new under road culverts **must** be installed with precast headwalls.
5. The relocated water race must have a base width of between 1.0 and 1.5m and the depth no deeper than 500mm.
6. The water race must be constructed in accordance with Council Engineering Standards. A copy of the water race engineering drawing is attached and the water race must be constructed in full accordance with this design.
7. Please contact Daniel Meehan to advise of the start date of the work.
8. Construction of the race is such that water losses are kept to a minimum and may be required to be lined with material approved by the Council engineer's representative.
9. The first inspection will be the viewing of the construction of the new race. Please inform Daniel Meehan when the new race is ready for viewing. Please provide at least two days' notice of an inspection. At this inspection it will be determined if the race requires lining with clay.
10. The second inspection is to view the lining of the water race and the installation of any culverts and headwalls within road reserve or within private property. Please inform Daniel

Meehan when the water race has been lined with suitable material (clay material or a plastic liner) and when the culverts are in situ.

11. Please contact the water race operator, Ross Hamilton when the new race is ready for diversion of water, water is not to be diverted into the new race until SDC has approved. Please note that flows cannot be diverted under drought conditions or when low flows are experienced in the scheme.

12. A water loss test must be carried out. Again, please inform Daniel Meehan when the water race is ready for a water loss test to occur. A water loss test must be carried out prior to the water being fully diverted. If this is not undertaken Council reserve the right to do this at the applicant's cost and all repairs that may be required are at the applicant's expense.

13. The old race cannot be closed until the new race is shown to be effective and the water loss test has been carried out.

14. If any leakage occurs from the relocated race, including anytime in the future, the applicant will undertake all necessary repairs as directed by the Asset Delivery Manager.

Attached for you records is

- A copy of Map showing relocation.
- Water Race engineering requirements standard drawing
- Before u dig information – Council recommend contacting before you dig before any works is carried out.

Feel free to contact me if you have any questions, My Contact Details are below.

Daniel Meehan
(03) 347-2945
SDC Surface Water Operations Engineer

Ross Hamilton
(027) 326-2644
SICON Water Race Team Leader (For when you need to contact him).

Regards,
Daniel,

Daniel Meehan | Surface Waters Operations Engineer | Selwyn District Council
DDI: 03 347 2945 | Mobile: 027 4583 322 (internal 945)



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What is beforeUdig?

The beforeUdig service enables anyone intending to undertake excavation works to obtain information on the location of underground pipes and cables for any location within New Zealand, simply by making one single enquiry.

Power, Gas, Water and Telecommunications

All these services are provided via underground pipes and cables which provide a lifeline to both the business and private sector of this country.

Damaging these assets could affect thousands of businesses and inconvenience people across the nation. The cost of damages in repairs, downtime and loss of business could be unimaginable. But it does happen!

That's why using the beforeUdig service before excavation is vital to the well being of the entire community.

Interactive Web Site

The beforeUdig Interactive website allows you to lodge your enquiries online utilizing the most up-to-date Onecall program available; this enables you to view the excavating site on screen. Visit: www.beforeudig.co.nz

Contact Details

P. 0800 248 344
www.beforeudig.co.nz
contactus@beforeudig.co.nz

PO Box 99748 Newmarket 1023
Auckland New Zealand

How Does beforeUdig Work?

Step 1

At least 2 clear working days before commencing your excavations, lodge a beforeUdig enquiry providing us with information about the worksite.

Web: www.beforeudig.co.nz

Step 2

Our state of the art system will immediately search its database to notify known asset owners who are members of the beforeUdig service and could be affected by the intended excavation works. Simultaneously, we will send you contact details of these asset owners via a "Caller Confirmation" sheet.

Step 3

Participating asset owners will provide you with asset information relating to the worksite, usually within 2 working days of lodging your enquiry (allow 5 working days for response by post).

Whilst the most common response method is by providing you with a map of the site showing the asset locations, asset owners may choose to contact you directly to discuss the intended works or provide you with an onsite service to ensure the assets are protected.

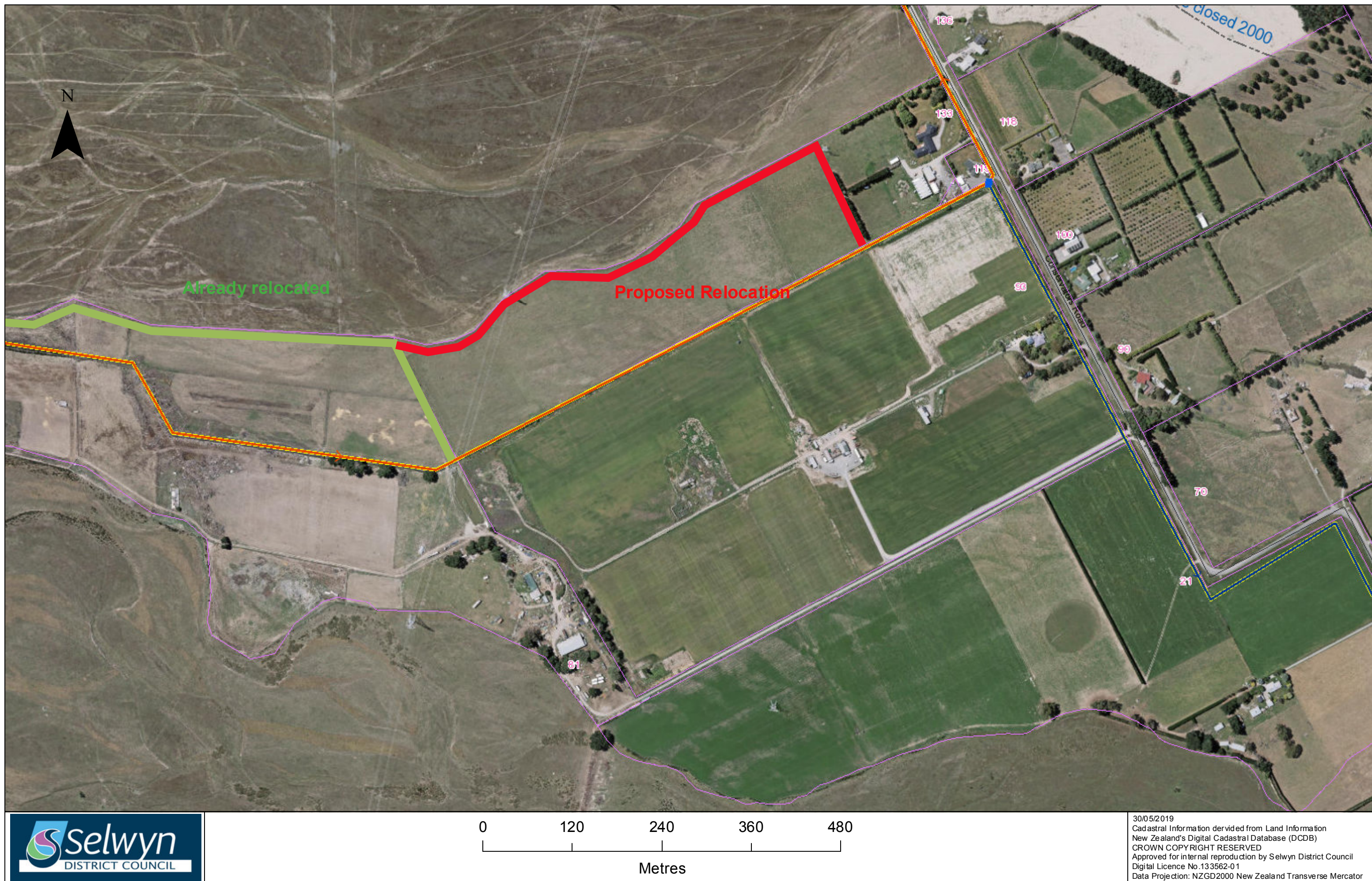
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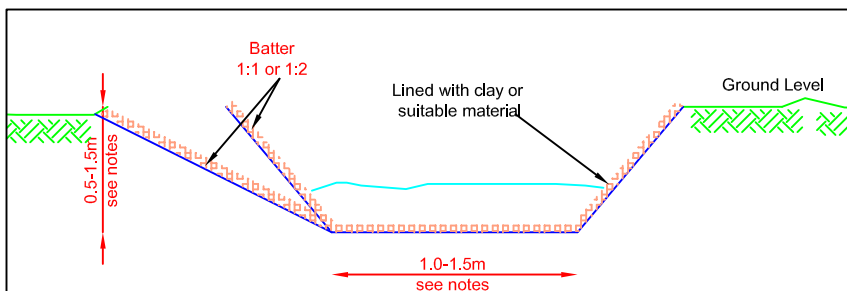


Whilst it is free to use the beforeUdig service to gather information on the possible presence of underground assets in and around your proposed excavation site, to request plans and locate services, some Utilities and Local Government Organisations may charge to supply these services. Please check with the relevant asset owners listed on your confirmation sheet if you require more information on these possible charges.

The information supplied by beforeUdig of Asset Owners who may have underground assets in or around your proposed excavation site may not represent all Asset Owners affected. It is your sole responsibility to ascertain any other Asset Owners in or around your proposed excavation site. The information supplied by beforeUdig is solely to assist you in this process.

SOL Relocation





Notes:

- All new and relocated water races are required to be lined with a minimum of 300mm of approved lining material.
- Races should be lined with clay or Bentonite mixed with natural material/gravel. A mix of 15% Bentonite and 85% gravel mix could be used.
- Lime stabilisation may be required for mixed clay liners of 2-4% by weight.
- A maximum particle size of 20% of the liner thickness should be used.
- Liners should be well mixed onsite to achieve uniform clay/bentonite distribution.
- If used, pure Bentonite liners should be 20-50mm thick and covered with a compacted layer of top soil/gravel.
- Channel dimensions and batters should be agreed with Council Engineer for all new channels. Access to clean water races should be provided for in all new and relocated races.

Relocation of Water Race W106

Relocation of water race shall be subject to:

- Relocation of the race shall not have a detrimental effect on any other water race users or water race system operation.
- Application for relocation shall be made in writing to the Asset Delivery Manager and shall include:
 - a) Map showing existing and proposed works.
 - b) Specifications for construction of work.
 - c) Non refundable payment of the application fee as per the Annual Report.
- No works can proceed until engineering approval of the works has been obtained from the Asset Delivery Manager.
- All cost associated, including any supervision, with the relocation shall be at the applicant's expense.
- If any leakage occurs from the relocated race, including anytime in the future, the applicant shall undertake all necessary repairs as directed by the Asset Delivery Manager.
- Water loss test must be carried out in consultation with the Council representative prior to the water being fully diverted. If this is not undertaken the Council reserve the right to do this at the applicant's cost and all repairs may be required are at the applicant's expense.
- When a water race relocation application is an enhancement to the scheme, then a cost sharing arrangement may be entered into between the council and the applicant at the Council's discretion.

*Amended Water Race Committee 08.05.06
Confirmed by Council 11.07.07
Council 10.06.09*

New Races or Associated Structures W108

Installation of new race will be permitted:

- Where new properties are required to be served.
- To serve additional areas of individual properties.
- Conditions:
 - a) Cost of all works including the associated supervision is at the applicant's expense.
 - b) Design and construction to the approval of the Asset Delivery Manager.
- If any leakage occurs from the race, including anytime in the future, the applicant will undertake all necessary repairs as directed by the Asset Delivery Manager.
- A water loss test must be carried out in consultation with the Council representative prior to the water being fully diverted. If this is not undertaken Council reserve the right to do this at the applicant's cost and all repairs that may be required are at the applicant's expense.

*Water Race Committee 22.06.98
Amended Water Race Committee 08.05.06
Confirmed by Council 11.07.07
Council 10.06.09*



Water Race Lining Requirements New and Relocated Channels

STANDARD NO WR 8.0
DATE March 2015
SCALE NTS