



The Department recommends that you contact the Department of Conservation Office closest to where the activity is proposed to discuss the application prior to completing the application forms. Please provide all information requested in as much detail as possible. Applicants will be advised if further information is required before this application can be processed by the Department.

This form is to be used when the proposed activity is the building or use of any private or commercial facility or structure on public conservation land managed by the Department of Conservation. Examples may include lease of land to erect an information centre; authorisation to erect a weather station; or construct or lease a private/commercial campground or lodge. This form is to be completed in conjunction with either Applicant Information Form 1a (longer term concession) or Applicant Information Form 1b (one-off concession) as appropriate.

Please complete this application form, attach Form 1a or Form 1b, and any other applicable forms and information and send to [permissions@doc.govt.nz](mailto:permissions@doc.govt.nz). The Department will process the application and issue a concession if it is satisfied that the application meets all the requirements for granting a concession under the Conservation Act 1987.

If you require extra space for answering please attach and label according to the relevant section.

---

## A. Description of Activity

Please describe the proposed activity in detail – where the site is located, please use NZTM GPS coordinates where possible, what you intend to use the building for, whether you intend to make any changes to the infrastructure.

Please include the name and status of the public conservation land, the size of the area for which you are applying and why this area has been chosen.

If necessary, attach further information including a map, a detailed site plan and drawings of proposal and label Attachment 3b:A.

To drill and install one permanent artesian steel cased science monitoring bore, This bore will target a pumice layer that has since been modelled as the Waipaoa Gravels. This location has been chosen to replace decommissioned, artesian bore, GPF056. Two options are proposed for the location of the new bore, both along the southeastern legal boundary of the carpark and garden areas (please see attached map). GPF056 was drilled to 111.0m in depth, however, it was only screened from 14-17m, with a construction depth of 19.5m (with 100mm casing), the proposed bore will be to a similar depth of 20m (bgl) and will be sealed, also with a 1m<sup>2</sup> concrete apron to mitigate the risk of surface water entering the bore. Locked headworks with the potential for a telemetry monitoring system may also be installed. Should it be required a rock barrier alike those already present in the carpark can be installed to protect the infrastructure. GDC also proposes to design and install (in partnership with DOC) a information board sign explaining the aquifer, and purpose of the bore.

---

## B. Alternative sites considered

If your application is to **build, extend or add** to any permanent or temporary structures or facilities on public conservation land, please provide the following details:

- Could this structure or facility be reasonably located outside public conservation land? Provide details of other sites/areas considered.
- Could any potential adverse effects be significantly less (and/or different) in another conservation area or another part of the conservation area to which the application relates? Give details/reasons

The bore is required to be within close proximity to the historic bore on the site to secure targeted aquifers. Two proposed sites are shown in the attached map, both on the south eastern legal boundary of the carpark and garden areas.

---

## C. Larger area

Is the size of the area you are applying for **larger** than the structure/facility

**YES / NO**

If **yes**, please detail the size difference in the box below, and answer the following 3 questions, if **no** please go on to the next section:

The bore itself will be between 50-100mm in diameter, as such this will occupy a very small area, additional area is needed to accommodate a monitoring station, the concrete apron, cordon fence (rock barrier), and a space for a sign, a total area of up to 12m<sup>2</sup> is proposed.

The accessory structures are not essential but having these as a option provides flexibility should telemetry be considered in future. A cordon fence will be desirable to have around the bore site, GDC proposes rock barriers to ensure these fit within the amenity values and character of the area.

Is this necessary for safety or security purposes?

**YES / NO**

Is this necessary as an integral part of the activity?

**YES / NO**

Is this essential to carrying on the activity?

**YES / NO**

If the answer to any of the above is yes, please provide details and attach supporting evidence if necessary and label Attachment 3b:C.

---

## D. Exclusive possession

Do you believe you need **exclusive possession** of the public conservation land on which your structure/building is located, ie no one else can use the land during your use of it? **YES / NO**  
(Exclusive occupation requires a lease which requires public notification of the application)

If **yes**, please answer the following 3 questions, if no please go to the next section:

Is exclusive possession necessary to protect public safety? **YES / NO**

Is exclusive possession necessary to protect physical security of the activity? **YES / NO**

Is exclusive possession necessary for the competent operation of the activity? **YES / NO**

If the answer to any of the above is yes, please provide details and attach supporting evidence if necessary and label Attachment 3b:D.

The specialist instrumentation that will be deployed down the bore for groundwater monitoring will require exclusive use by GDC to ensure scientific data is not lost and remains available for State of the Environment monitoring as part of GDCs obligation to the National Policy Statement for Freshwater Management.

## E. Technical Specifications (for telecommunications sites only)

Frequencies on which the equipment is to operate

Power to be used (transmitter output)

Polarisation of the signal

Type of antennae

The likely portion of a 24 hour period that transmitting will occur

Heaviest period of use

---

## F. Term

Please detail the length of the term sought (i.e. number of years or months) and why.

*Note: An application for a concession for a period over 10 years must be publicly notified, an application for a concession up to 10 years will not be publicly notified unless the adverse effects of the activity are such that it is required, or if an exclusive interest in the land is required.*

The term (lifetime of the asset) is 30 years, as such a term of 30 years is favored.

---

## G. Bulk fuel storage

Under the Hazardous Substances and New Organisms Act 1996 (HSNO Act) 'Bulk fuel storage' is considered to be any single container, stationary or mobile, used or unused, that has a capacity in excess of 250 litres of Class 3 fuel types. This includes petrol, diesel, aviation gasoline, kerosene and Jet A1. For more information on Hazardous Substances, go to:

<http://www.business.govt.nz/worksafe/information-guidance/legal-framework/hsno-act-1996>

Do you intend to store fuel in bulk on the land as part of the activity?

**YES / NO**

If you have answered yes, then please provide full details of how and where you intend to store the fuel, and label any attachments including plans, maps and/or photographs as Attachment 3b:G. If your concession application is approved you will be required to provide a copy of your HSNO compliance certification to the Department before you begin the activity.

## H. Environmental Impact Assessment

This section is one of the most important factors that will determine the Department’s decision on the application. Please answer in detail.

In column 1 please list all the locations of your proposal, please use NZTM GPS coordinates where possible. In column 2 list any special features of the environment or the recreation values of that area. Then in column 3 list any effects (positive or adverse) that your activity may have on the values or features in column 2. In column 4 list the ways you intend to mitigate, remedy or avoid any adverse effects noted in column 3. Please add extra information or supporting evidence as necessary and label Attachment 3b:H.

Refer to Steps 1 and 2 in your Guide to Environmental Impact Assessment to help you fill in this section.

Location on public conservation land	Special feature or value	Potential effects of your activity on the feature or value (positive or adverse)	Methods to remedy, mitigate or avoid any adverse effects identified
<i>EG: Tararua Forest Park</i>	<i>Northern rata - threatened species</i>	<i>Damage to the plants by construction</i>	<i>Brief construction and maintenance staff of the location and importance of the species; clearly tape off areas with the species to avoid damage</i>

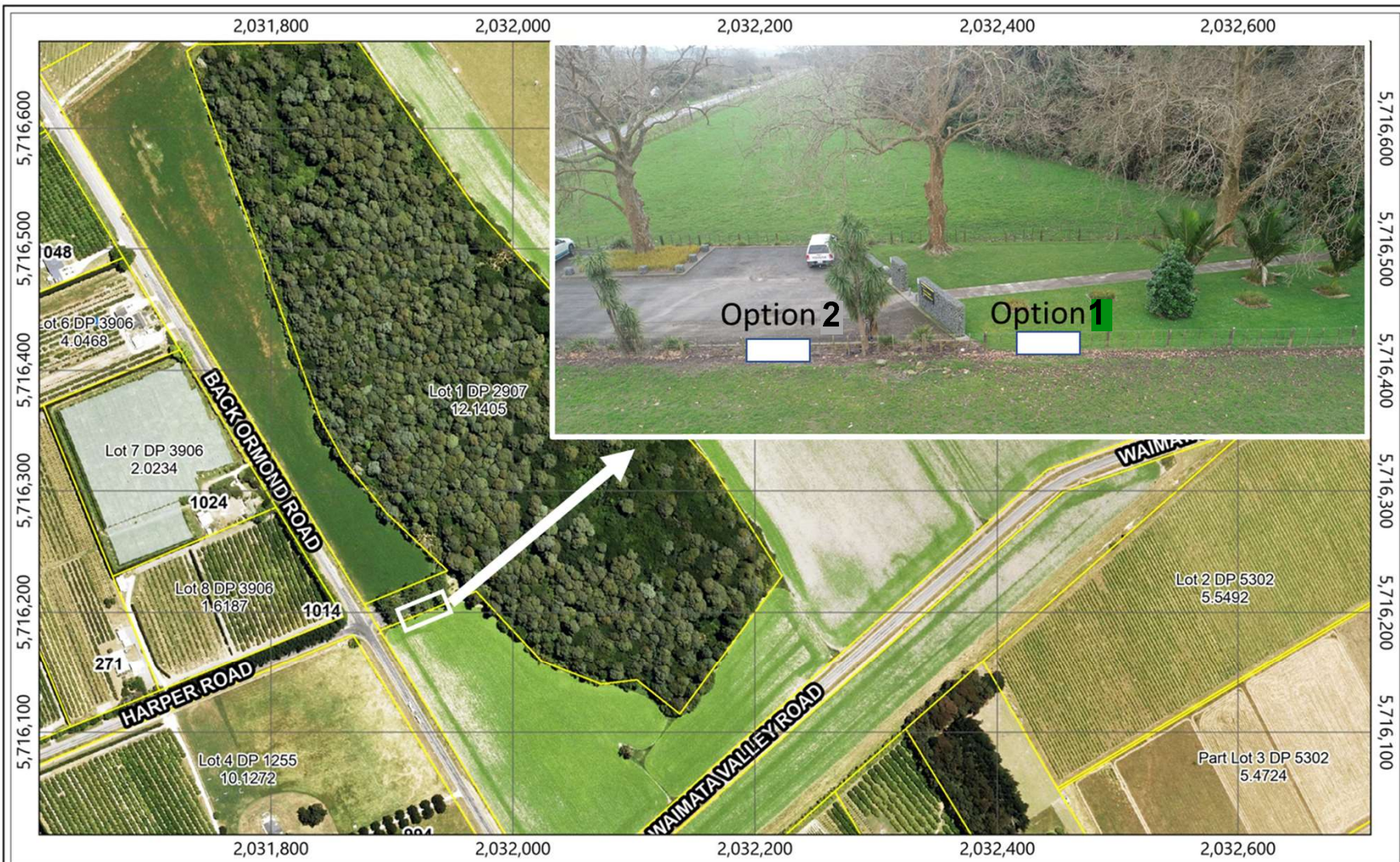
**Resource consent is required for a bore permit I have attached the AEE and proposed conditions to support this application as Appendix H.**

---

**I. Other**

Is there any further information you wish to supply in support of your application? Please attach if necessary and label Attachment 3a:I.

Blank area for providing further information, consisting of five horizontal lines.



**Gray's Bush**

Information on this plan is indicative only and not mapped to a survey accurate scale. Gisborne District Council accepts no liability for its accuracy and it is your responsibility to ensure that the data contained herein is appropriate and applicable to the end use intended. Copyright under Creative Commons Attribution 4.0 International licence. Map contain data sourced from the LINZ Data Service, BOPLASS or Gisborne District Council

Additional Notes:

Indicative Map Scale: 1: 4,000 @ A4

Projection: NZGD2000 New Zealand Transverse Mercator

Date: 30/09/2022 7:48:27 p.m.



# Applicant Information Form 1a Notified or Non-notified Process



Department of  
Conservation  
*Te Papa Atawhai*

[New Zealand Government](#)

## Is this the right application form for me?

This **Applicant Information Form 1a** – Notified or Non-notified Process must be completed for **the following longer term applications** (i.e. not one-off applications):

- Grazing
- Land use: Tenanting and/or using existing DOC facility/structure
- Land use: Use of public conservation land for private commercial facility/structure
- Guiding/Tourism/Recreation: Watercraft activities
- Filming
- Sports events
- Marine reserves application form 11a: Structure in a marine reserve

For other activities use the specific activity application forms that combine applicant and activity information or book a pre-application meeting.

## How do I complete this applicant information form?

- Complete all sections of this **applicant information form**.
- In addition, you must complete the **activity application form/s** that you wish to undertake.
- DOC encourages electronic applications (e.g. typed Word document), rather than handwritten applications. Electronic applications are easier to read and less likely to be returned to you for clarification.
- If you need extra space, attach or include extra documents and label them according to the relevant section. Record all attachments in the table at the back of the application information form section **F Attachments**.

## How do I submit my application?

Email the following to [permissions@doc.govt.nz](mailto:permissions@doc.govt.nz):

- **Completed applicant information form 1a**
- **Completed activity application form**
- Any other relevant attachments.

## If I need help, where do I get more information?

- Check the [DOC webpage for the activity you are applying](#)<sup>1</sup> for.

---

<sup>1</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/apply-for-a-permit/>



- Arrange a pre-application meeting (either face to face or over the phone) by contacting the [Department of Conservation Office](#)<sup>2</sup> closest to where the activity is proposed. You can use [DOC maps](#)<sup>3</sup> to identify which District Office you should contact. Or arrange a meeting with any of our [four offices that process concessions](#)<sup>4</sup> – choose the one closest to where the activity is proposed.
- If your application covers multiple districts, contact the office nearest most of the locations you are applying for, or nearest to locations you have a specific question about.

### What happens next?

Once your application forms are received, your application will be assessed by DOC. If your application is complete, DOC will begin processing.

If your application is incomplete it will be returned to you for more information.

### Why does DOC ask for this information?

The questions in this application information form and the activity application form/s are designed to cover the requirements set out in conservation legislation. Your answers allow us to assess:

- Your most up-to-date details so that DOC can contact you about your application.
- Your qualifications, resources, skills and experience to adequately conduct the activity on public conservation land.
- Your creditworthiness will help determine whether DOC should extend credit to you and set up a DOC customer accounts receivable credit account for cost recovery. To make this assessment DOC will supply your information to a credit checking agency.

### Note:

- Personal information will be managed by DOC confidentially. For further information check [DOC's privacy and security statements](#)<sup>5</sup>.
- Information collected by DOC will be supplied to a debt collection agency in the event of non-payment of payable fees.

### What fees will I pay?

You may be required to pay a **processing fee** for this application regardless of whether your application is granted or not. You may request an estimate of the processing fees for your application. If you request an estimate, DOC may require you to pay the reasonable costs of the estimate prior to it being prepared. DOC will not process your application until the estimate has been provided to you. In addition, if you are granted a guiding concession on public conservation land you may be required to pay annual **activity and management fees**. These fees are listed on the [DOC webpage for the activity you are applying](#)<sup>6</sup> for.

DOC will invoice your processing fees after your application has been considered. If your application is large or complex, DOC may undertake billing at intervals periodically during processing until a decision is made. If you withdraw your application DOC will invoice you for the costs incurred up to the point of your withdrawal.

---

<sup>2</sup> [www.doc.govt.nz/footer-links/contact-us/office-by-name/](http://www.doc.govt.nz/footer-links/contact-us/office-by-name/)

<sup>3</sup> <http://maps.doc.govt.nz/mapviewer/index.html?viewer=docmaps>

<sup>4</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/contacts>

<sup>5</sup> <https://www.doc.govt.nz/footer-links/privacy-and-security/>

<sup>6</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/apply-for-a-permit/>

**Your application will set up a credit account with DOC.** See the checklist at the end of the form for the terms and conditions you need to accept for a DOC credit account.

### **Will my application be publicly notified?**

Your application will be publicly notified if:

- It is a license with a term of more than 10 years.
- It is a lease.
- After having regard to the effects of the activity, DOC considers it appropriate to do so.

Public notification will increase the time and cost of processing of your application.

### **What does DOC require if my application is approved?**

If your application is approved DOC requires:

- **Insurance** to indemnify the Minister of Conservation against any claims or liabilities arising from your actions. The level of insurance cover will depend on the activity.
- A copy of your **safety plan** audited by an external expert (e.g. Health and Safety in Employment (Adventure Activity) Regulations 2011 audit or a DOC listed organisation). See the [Safety Plan](#)<sup>7</sup> information on the DOC website for further information.

**Note:** DOC/Minister can vary the concession if the information on which the concession was granted contained material inaccuracies. DOC may also recover any costs incurred.

---

<sup>7</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/managing-your-concession/safety-plans/>

## A. Applicant details

Legal status of applicant (tick)	<input type="checkbox"/> Individual (Go to <b>1</b> )		
	<input type="checkbox"/> Registered company (Go to <b>2</b> )	<input type="checkbox"/> Trust (Go to <b>2</b> )	
	<input type="checkbox"/> Incorporated society (Go to <b>2</b> )	<input checked="" type="checkbox"/> Other e.g. Educational institutes (Go to <b>2</b> )	

<b>1</b>	Applicant name (individual)	Emily Graham on behalf of the Gisborne District Council		
	Phone		Mobile phone	
	Email	emily.graham@gdc.govt.nz		
	Physical address	15 Fitzherbert Street, Gisborne	Postcode	4010
	Postal address (if different from above)		Postcode	

<b>2</b>	Applicant name (full name of registered company, trust, incorporated society or other)	Gisborne District Council		
	Trading name (if different from applicant name)			
	NZBN if applicable (to apply go to: <a href="https://www.nzbn.govt.nz">https://www.nzbn.govt.nz</a> )		Company, trust or incorporated society registration number	
	Registered office of company or incorporated society (if applicable)			
	Company phone		Company website	
	Contact person and role			
	Phone		Mobile phone	
	Email			
	Postal address		Postcode	
	Street address (if different from postal address)		Postcode	

## B. Pre-application meeting

Have you had a pre-application meeting or spoken to someone in DOC?

No	<input type="checkbox"/>
Yes	<input checked="" type="checkbox"/>

- If yes record the:

Date of DOC pre-application meeting	02/03/2022
Name of DOC staff member	Jamie Quirk
Name of person who had the pre-application meeting with DOC	Joshua Hovell and Joanne Ferry (GDC staff)

## C. Activity applied for

Tick the **activity application form** applicable to the activity you wish to undertake on public conservation land. Complete the applicant information form and the activity application form and email them with any attachments to [permissions@doc.govt.nz](mailto:permissions@doc.govt.nz)

ACTIVITY APPLICATION FORM*	FORM NO.	TICK
Grazing	2a	<input type="checkbox"/>
Land use: Tenanting and/or using existing DOC facility/structure	3a	<input type="checkbox"/>
Land use: Use of public conservation land for private/commercial facility/structure	3b	<input checked="" type="checkbox"/>
Guiding/Tourism/Recreation: Watercraft activities	4b	<input type="checkbox"/>
Filming	5a	<input type="checkbox"/>
Sporting Events	6a	<input type="checkbox"/>
Marine reserves application form: Structure in a marine reserve	11a	<input type="checkbox"/>
Other activities (not covered in the above forms or in the new activity application forms that combine applicant and activity information)	7a	<input type="checkbox"/>

**Note:** If the activity is not in this list check the activity on the DOC website to find the correct application form or book a pre-application meeting. Application forms that combine applicant and activity information on the DOC website include:

- [Aircraft activities](#)<sup>8</sup>
- [Easements](#)<sup>9</sup>
- [Land based guiding](#)<sup>10</sup>

<sup>8</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/business-or-activity/aircraft-activities/>

<sup>9</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/business-or-activity/access-easements/>

<sup>10</sup> <https://www.doc.govt.nz/get-involved/apply-for-permits/business-or-activity/land-based-guided-activities/>

---

## D. Are you applying for anything else?

Are you submitting any other application forms in relation to this application?

No	<input type="checkbox"/>
Yes	<input checked="" type="checkbox"/>

- If yes, state which application forms:

Please advise if an easement form is required - GDC staff will need to access the site to take samples from the bore during the life of the bore or term of the agreement.

GDC also seeks permission to temporary close the Greys Bush Reserve including the carpark area to the general public during the time of bore drilling and construction for Health and Safety of the public, machinery and the ground crew.

---

## E. Background experience of applicant

Provide relevant information relating to your ability to carry out the proposed activity (e.g. details of previous concessions, membership of professional organisations, and relevant qualifications).

The Council have engaged with Brown Bros Services to undertake the drilling work. This company is well known as a supplier for these services in NZ. The supplier has proven track record of implementing similar drilling management strategies is required, has Sufficient resources and expertise to complete the scope of works in a safe, timely and satisfactory manner, a proven track record of delivering high-quality groundwater bores; good knowledge of the Region; a good knowledge of geology and hydrogeology; and excellent health and safety processes and documentation.

## F. Attachments

Attachments should *only* be used if there is:

- Not enough space on the form to finish your answer
- You have additional information that supports your answer
- You wish to make an additional request of DOC regarding the application.

Label each document clearly and complete the table below.

Section of the application form the attachment relates to	Document title	Document format (e.g. Word, PDF, Excel, jpg etc.)	Description of attachment
<u>Correct example</u> ✓ D	Locations	PDF	Trust Deed.
<u>Incorrect example</u> ✗ Table	Doc1	Word	Table
H	Support Doc	PDF	Resource Consent Application
A - 1	Site Plan	PDF	Location Plan
A-2	Greys Bush	Powerpoint	Scientific Information and Bore Design

## G. Checklist

Application checklist	Tick
I have completed all sections of this applicant information form relevant to my application and understand that the form will be returned to me if it is incomplete.	<input type="checkbox"/>
I certify that the information provided in this applicant information form, and any attached additional forms is, to the best of my knowledge, true and correct.	<input type="checkbox"/>
I have completed the <b>activity application form</b> .	<input type="checkbox"/>
I have appropriately labelled all attachments and completed section <b>F Attachments</b> .	<input type="checkbox"/>
I will email <a href="mailto:permissions@doc.govt.nz">permissions@doc.govt.nz</a> my: <ul style="list-style-type: none"> <li>• Completed applicant information form</li> <li>• Completed activity application form/s</li> <li>• Any other attachments.</li> </ul>	<input type="checkbox"/>

## H. Terms and conditions for a credit account with the Department of Conservation

Have you held an account with the Department of Conservation before?	Tick
No	<input type="checkbox"/>
Yes	<input checked="" type="checkbox"/>
If 'yes' under what name	The Gisborne District Council

**In ticking this checklist and placing your name below you are acknowledging that you have read and agreed to the terms and conditions for an account with the Department of Conservation**

Terms and conditions	Tick
I/We agree that the Department of Conservation can provide my/our details to the Department's Credit Checking Agency to enable it to conduct a full credit check.	<input checked="" type="checkbox"/>
I/We agree that any change which affects the trading address, legal entity, structure of management or control of the applicant's company (as detailed in this application) will be notified in writing to the Department of Conservation within 7 days of that change becoming effective.	<input checked="" type="checkbox"/>
I/We agree to notify the Department of Conservation of any disputed charges within 14 days of the date of the invoice.	<input checked="" type="checkbox"/>
I/We agree to fully pay the Department of Conservation for any invoice received on or before the due date.	<input checked="" type="checkbox"/>
I/We agree to pay all costs incurred (including interest, legal costs and debt recovery fees) to recover any money owing on this account.	<input checked="" type="checkbox"/>
I/We agree that the credit account provided by the Department of Conservation may be withdrawn by the Department of Conservation, if any terms and conditions (as above) of the credit account are not met.	<input checked="" type="checkbox"/>
I/We agree that the Department of Conservation can provide my details to the Department's Debt Collection Agency in the event of non-payment of payable fees.	<input checked="" type="checkbox"/>

Typed applicant name/s	Emily Graham	Date	04/10/2022
------------------------	--------------	------	------------

For Departmental use			
Credit check completed			
Comments:			
Signed		Name	
Approved (Tier 4 manager or above)		Name	

## Joanne Ferry

---

**From:** Joanne Ferry <Joanne.Ferry@gdc.govt.nz>  
**Sent:** Wednesday, 14 September 2022 9:28 am  
**To:** Akasha Warner-Mason  
**Cc:** Peter Hancock  
**Subject:** Gray's Bush Illustration for Notifying  
**Attachments:** Gray's Bush Options FInal.pdf

Morena Akasha,

Please find attached the illustration for both monitoring bore location options at Gray's Bush.

In our opinion it would be best to notify both options, so that the driller has flexibility closer to the time.

Can you please advise what other information you need from us to finalise this process before notifying.

Nga mihi,

**Joanne Ferry** | Senior Groundwater Scientist | Gisborne District Council  
**email** [Joanne.Ferry@gdc.govt.nz](mailto:Joanne.Ferry@gdc.govt.nz) | **ph** [REDACTED]  
**address** 15 Fitzherbert Street, PO Box 747, Gisborne 4010 | **url** [www.gdc.govt.nz](http://www.gdc.govt.nz)





Artistic scaled representation of the proposed  
**Gray's Bush Groundwater Monitoring Bore**  
and education signage



**Option 1: Located on the southern fenceline, behind the carpark.**



**Option 2: Located on the southern fenceline, within the carpark garden edge.**

## Option 2 - Rig Positioning Options

With both drill rig position options below, the fenceline with neighbouring Mangatu Blocks would need to be partially removed for the duration of the drilling activity. See Figure 1. GDC are in the process of contacting Mangatu Blocks to gain agreement for land access and drilling activity.

If the fenceline can be removed this would give two rig position options (Figure 2).

Option **2a** the driller would likely need access to nearly the entire carpark (yellow dotted line shows where demarcated area would likely start)

Option **2b** the driller would likely only need access to the red dotted line area of the carpark.

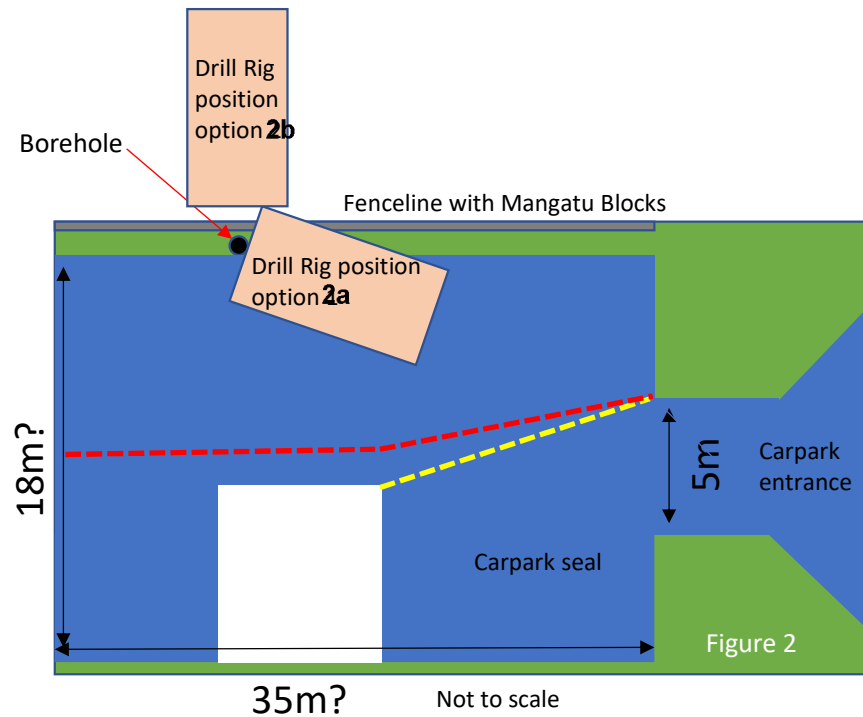


Figure 1



## Joanne Ferry

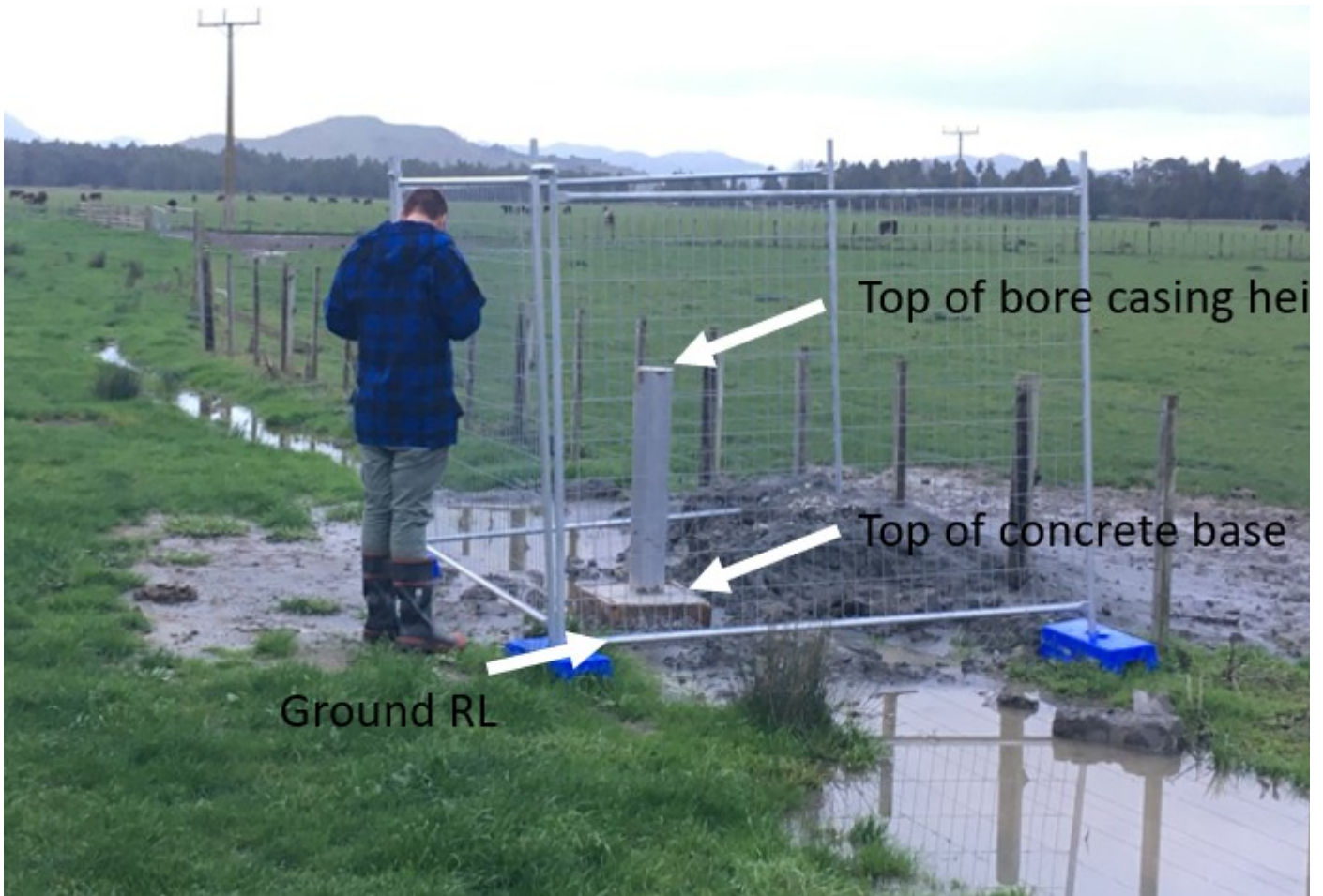
---

**From:** Peter Hancock <Peter.Hancock@gdc.govt.nz>  
**Sent:** Tuesday, 21 June 2022 3:56 pm  
**To:** Joanne Ferry; Akasha Warner-Mason  
**Subject:** RE: Further information required - Gisborne District Council - 98150-OTH

Hi Jo and Akasha.

To reduce long term impact of the final bore head on the proposed location, it's intended that discussion and arrangements are made with DoC and the adjacent landowner to allow temporary removal of a section of fencing so the bore can be drilled close to existing fencelines so the final borehead remains out of the way (closer to the fence than the pic below demonstrates). Any plantings, grass, soil or fencing disturbed during this process will be reinstated.

The current preference for a site setup is to have a lockable steel upstand to enable access to the bore for manual water level measurements similar to the picture below. At the base of this upstand will be a square concrete surrounding plinth at ground level approx 0.5 x 0.5m in size. From the steel upstand, some tubing can be directed to run up a ruler board mounted next to the bore such as the second example below. The current idea is to turn this ruler into an educational piece, with appropriate signage explaining what groundwater aquifers are and what this one in-particular is measuring to showcase how aquifer water levels can be measured. The aquifer water level can then be viewed in the clear tube as a 'High, Medium, Low' type traffic light signage backing plate to help inform the reader as to the current state of water levels in the aquifer. Based on historic data, the water level here is typically between ground level and 2.7m above ground level, so the whole board would sit between 2.7 and 3m high.





The above concept is an idea to increase educational awareness of the importance of sustainable management of groundwaters, particularly groundwaters used in the area. Alternative designs can be drawn up if the communication concept isn't liked by DoC or if designs require further illustration to help see what it would look like. The Bore and signage would be GDC's responsibility to maintain ongoing, but if DoC is interested in the collaborative approach around environmental education then we could consider DoC branding on the sign to indicate combined DoC/GDC desire for environmental protection, but unsure if that is fitting with DoC mandate. Either way, GDC would run any final signage designs past DoC for approval.

Telemetry is yet to be confirmed. But if it does go ahead, best case scenario we think that this could be serviced by a discrete telemetry device hidden inside the locked borehead out of sight, or at least hidden in a tube behind the staff gauge backing board. If that isn't practical, a locked box could be mounted on the back of the board (facing the paddock) to house the telemetry hardware which would include inside a solar charger, datalogger, battery and a solar panel mounted on the back of the box to catch the morning sun (facing the paddock).

Ngā mihi nui



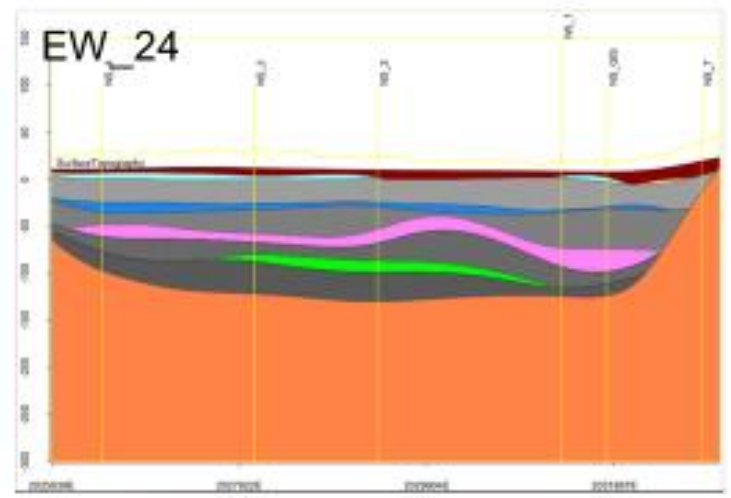
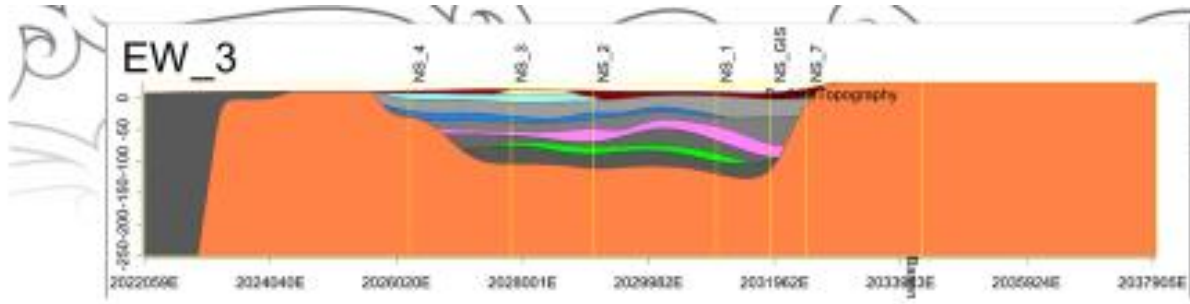
# Gray's Bush – M03

Lithology is anticipated to have the same intersections as GPF056

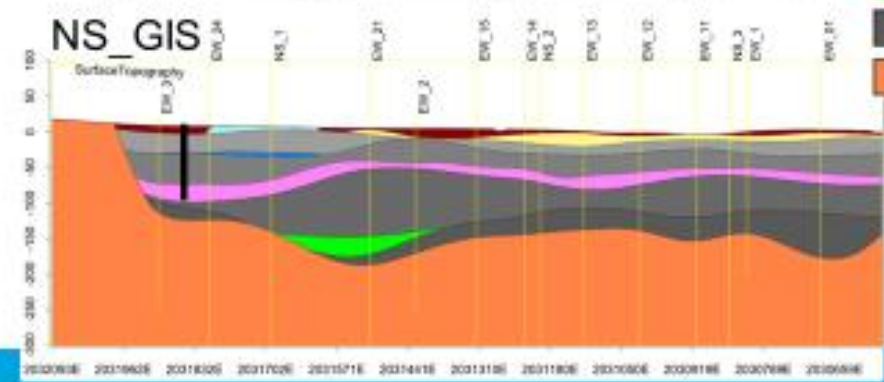
Start	Stop	Comment
0.0	0.3	TOP SOIL
0.3	3.0	GREY-BROWN SILT
3.0	3.3	PUMICE, WOOD FRAGMENTS
3.3	4.1	GREY-BLUE CLAY
4.1	15.2	PUMICE LAYER, BLUE CLAY WITH WOOD AND VE
15.2	16.0	PUMICE LAYER, BLUE CLAY WITH WOOD AND VE
16.0	16.1	PUMICE LAYER
16.1	17.0	BLUE-GREY CLAY SILT
17.0	19.5	CLAY-SILT AND SAND, GREY BROWN COLOUR, V



Construction and headworks to be advised by Driller, due to artesian risk.




- Unfractured Shale
- Terrace Sand
- Shallow Fluvial Deposits
- Aquifer 1
- Waipoua Gravel
- Waipoua Gravel 2
- Aquifer 2
- Makauri Gravel
- Aquifer 3
- Matukohu Gravel
- Aquifer 4
- Basement






# Gisborne District Council

## Application for Resource Consent : Bore Permit *Section 88 of the Resource Management Act 1991*

<b>Prepared by:</b>	Joshua Hovell	
<b>Position / title:</b>	Project Advisor – Science and Strategy	
<b>Date:</b>	16/02/2022	
<b>Signature:</b>		<b>Date:</b> 17/02/2022

### Variation 11/07/2022

<b>Prepared by:</b>	Joanne Ferry	
<b>Position / title:</b>	Senior Groundwater Scientist – Science and Strategy	
<b>Date:</b>	12/07/2022	
<b>Signature:</b>		<b>Date:</b> 12/07/2022

<b>Project Manager</b>	
<b>Name:</b>	Graeme Card
<b>Position/title:</b>	Project Advisor – Science and Strategy



<b>Application Details</b>	
<b>Applicant</b>	<b>Gisborne District Council</b>
<b>Agent</b>	<b>Joanne Ferry</b>
<b>Legal Description</b>	<b>Multiple</b>
<b>Plan</b>	<b>Tairāwhiti Resource Management Plan (TRMP)</b>
<b>Use / Zoning</b>	<b>Rural Production</b>
<b>Overlays –</b>	<b>Potential Overlays present at any bore site.</b>  Heritage Alert Layer.  Areas Liable to Flooding
<b>Activity Status</b>	<b>Restricted Discretionary</b>

## Background

The project is aimed to gather information (through exploratory bore drilling) of the aquifers in the Waipaoa Catchment Zone.

As a regional council, Gisborne District Council's requirements under the National Policy Statement for Freshwater Management is to measure the quality and quantity of the freshwater above and underground within our region. This project will help the Council meet these requirements in the Waipaoa Catchment.

The desired outcome for this project is opportunistically gather information of the aquifers in the Waipaoa Catchment (the Poverty Bay Flats) and Muriwai area.

This will be achieved by:

- Working in Treaty Partnership
- Stakeholder engagement;
- Monitoring bore drilling and construction;
- Logging the lithology of subsurface conditions.
- Recording final airlift yield.

The desired outcome for this project is to improve aquifer characterisation and infrastructure requirements for long term groundwater monitoring for the Waipaoa catchment and Muriwai area.

This will be achieved by collection of drillhole lithology, subsurface conditions, and airlift yields for the following locations:

1. One deep groundwater monitoring bore at Awapuni, to begin baseline monitoring of coastal saline intrusion to the Makauri aquifer.
2. One shallow groundwater monitoring bore in the vicinity of Matawhero wetland, to assist in the understanding of the surface water and groundwater interactions and potential saline intrusion.
3. One shallow groundwater monitoring bore at Gray's Bush, to replace the decommissioned artesian monitoring bore.
4. One shallow groundwater monitoring bore at Muriwai, to begin baseline monitoring of groundwater conditions in the area.
5. One deep groundwater monitoring bore at Manutuke, to begin baseline monitoring of groundwater conditions in the area.

Site care and remediation - The supplier comply in all respects with resource consent conditions, and the Bore Construction Requirements set out in Appendix H21 of the Tairāwhiti Resource Management

## Proposal

The proposal is to drill one monitoring bore per location. The number of locations is still being considered, as such this application is for a global consent. Sites have been strategically located where there is information gaps in the current hydrogeological modelling programme which is being undertaken by the Councils science team.

As part of Councils Long Term Plan (LTP) Council will continue installing monitoring and exploratory bores in its region for the foreseeable future.

The information collected for the bore is for science purposes only and will not be used for productive purposes.

### **The bore drilling activity will include the following:**

- Mud rotary drilling and construction of monitoring bores (80mm in diameter).
- Collection of downhole samples every 2m, to be logged by GDC.
- Driller to record penetration rates for every rod and observe changes in ground conditions and groundwater intersections.
- To avoid risk of artesian pressure of water and gas, at Gray's bush, the bore will be cemented and cased at 12-13m.
- Driller to record final airlift yield following borehole development.

- Bores will only be made permanent if water saturated gravels are found. Bores will be decommissioned if deemed not sustainable to be made permanent. Decommissioning the bores will include backfilling the bore hole with cement and reinstating the area as found.
- Driller to construct headworks suitable for monitoring, with concrete apron and fencing as per specification provided by GDC.
- All materials used and abstracted from the ground during the drilling process (water, bentonite, and soils/muds) are biodegradable and is environmentally safe for its discharge on to the ground surface area within the drilling area. This approach was taken for the previous bore drilling that all materials from the site must remain in the area (apart from materials collected for scientific sampling and analysis).

The construction method is as follows:

- The top of the bore/well casing shall extend at least 300 mm above ground level and above any potential flood and/or ponding level.
- The casing must be sealed to prevent the entry of contaminants: - Properly seal holes through which cables/hoses are inserted into the casing. - Ensure the cap completely covers the borehead, is secure and preferably lockable.
- A concrete seal (apron) is to be placed at ground level around the outside of the casing. The seal must be sufficient to prevent foreign material, surface water, spillage or other leakage entering the space between the casing and the wall of the borehole. A seal with a minimum of 500mm radius and 100mm thickness around the borehead is recommended. The concrete apron needs to slope away from the bore in order to divert surface water away from the borehead.
- The concrete apron is to be located at ground level above the bentonite seal. The bentonite seal (typically bentonite pellets) must be placed above the filter pack (point 5) to prevent ingress of water via the bore annulus. The bentonite seal shall typically extend >2 m above the filter pack and extend up to ground level.
- A filter pack comprising of clean, washed sand (typically 2-4mm) shall be placed around the screened interval. The filter pack shall extend at least 200 mm above the screened interval while allowing point 4 (bentonite seal).
- Where more than one aquifer is encountered during drilling, the bore/well shall be constructed so that groundwater is drawn from only one primary aquifer. Ensure that any leakage between zones of differing pressure or water quality is prevented.
- Flowing artesian bores/wells shall be fitted with headworks to control artesian pressures and avoid the uncontrolled discharge of water.

## Site Description

The target areas are located within the Waipaoa Catchment Area. Sites have been located however are pending approval from landowners, as such are not yet fixed.

The council's hydrogeologist will be undertaking assessments to determine sites based geological features in the landscape, recorded lithology records, locations of existing GDC monitoring bores and sites, and information requirements for the developing hydrogeological groundwater modelling for the catchment. Selected sites are also subject to engagement with Treaty partners, mana whenua and landowners.

## Tairawhiti Resource Management Plan (TRMP) and Activity Status

A consent is required under Rule C6.2.6 (3) of the TRMP for the installation of a bore for groundwater abstraction and is a restricted discretionary activity.

### **Matters of discretion**

Council is restricted to the following matters of discretion:

- a) *Compliance with the NZS 4411-2011 Environmental Standard for Drilling of Soil and Rock and any other relevant standard;*
- b) *Bore location, size (including diameter of the bore casing) and depth including any setbacks from other bores;*
- c) *Bore screening depth and type;*
- d) *Backflow prevention;*
- e) *Details of pump tests performed in accordance with Appendix H21;*
- f) *Information requirements including bore logs, piezometric levels, groundwater tests and bore construction details;*
- g) *Duration of consent;*
- h) *Review of consent conditions;*
- i) *Monitoring requirements including provision of access for measuring water level, water pressure or water quality and provision made for water meter installation;*
- j) *Measures to conserve water, including sealing artesian bores; and*
- k) *Requiring payment of a monitoring fee.*

Those matters considered relevant to this application are assessed under the section below.

# Assessment of Relevant Objectives and Policies

The following is a discretionary activity assessment due to the variation change to this application lodged on the 12<sup>th</sup> of July 2022.

Relevant matters for assessment under TRMP C6.2.5 – Policies for Discharges to Groundwater and Bedrock – including from bores, oil and gas drilling:

- 1) Maintain or improve groundwater quality within aquifers recognising that these provide a substantial basis for food production values, irrigation values, surface water quality and associated ecosystem values.**

The objective of this bore drilling exercise is to construct groundwater monitoring infrastructure that can continue to observe and record groundwater quality within aquifers to assist with decisions surrounding maintenance and improvement of groundwater quality.

- 2) Manage the use of bores and galleries, including decommissioned bores, so that they do not result in:**
  - a. The contamination of surface water or groundwater; or**
  - b. The mixing of groundwaters of different qualities through backflow of water; or**
  - c. Surface water entering bores or galleries.**

The borehole annulus will be constructed with grout/bentonite seals at surface and at depth (where required) to prevent contamination from surface water bodies or mixing of aquifers down/across the borehole annulus.

The bore head will also be capped above surface and secured to prevent inflow to the bore.

- 3) Protect the significant values, water quality and hydrological regime within Outstanding Waterbodies identified in Schedule G18 and Regionally Significant Wetlands identified in Schedule G17 from the adverse effects of bore construction and groundwater discharges.**

Drilling is planned within 10m of Matawhero Wetland, for scientific purposes only (groundwater monitoring). This will be in accordance with and under the NES-FW permitted activities for scientific purposes. The activity will comply with general conditions on wetland activities in regulation 55.

- 4) Avoid hydrocarbon extraction, hydraulic fracturing, or deep well injection activities within Regionally Significant Wetlands identified in Schedule G17, Outstanding Waterbodies identified in Schedule G18 and Aquifer Management Areas identified in Schedule G23.**
- 5) Any bore penetrating bedrock is cased to prevent any potential contaminants leaking into groundwater and, when decommissioned, the release of contaminants from the bedrock into the overlying aquifers and any entry of contaminants from the land surface into the well or bore is prevented.**

See assessment response item 2, above.

- 6) **Avoid groundwater or surface water contamination from the use of chemicals, materials, additives or hydrocarbons during the exploration for, or extraction of, hydrocarbons in solid, liquid or gaseous form.**

See assessment response item 2, above.

- 7) **Where an application seeks resource consent for a hydrocarbon bore, deep well injection or hydraulic fracturing:**
  - a. **Baseline groundwater and surface water monitoring shall be required in accordance with the significance and scale of the activity;**
  - b. **Any natural hazards including faults, flood risks and areas of land instability shall be identified and measures taken to avoid, remedy or mitigate the risks; and**
  - c. **Conditions should be imposed to ensure that unused bores are properly decommissioned and sealed within one year of the bore no longer being required for use.**

N/A - Objective of this drilling is for groundwater monitoring only.

- 8) **Provide for the recharge of aquifers through discharges to groundwater provided these will not result in adverse effects on water quality within the aquifer.**

N/A - Objective of this drilling is for groundwater monitoring only.

- 9) **To consider requiring a bond, or an acceptable alternative for any bore or discharge of contaminants to groundwater or bedrock where the scale, intensity, duration or frequency of the discharge could have a high potential impact if it led to contamination of groundwater. The bond will be administered according to Section 108A of the Act.**

N/A - Objective of this drilling is for groundwater monitoring only. Discharge will be contained to drainage lines during any test pumping activities that may occur.

## **Assessment of Environmental Effects 104 (1)(a)**

An assessment of the actual and potential effects on the environment of allowing the activity indicate that no significant adverse environmental effects are likely.

Relevant matters for assessment under TRMP Rule C6.2.6 (3):

- a) ***Compliance with the NZS 4411-2011 Environmental Standard for Drilling of Soil and Rock and any other relevant standard;***

The Council have engaged with Brown Bros Services to undertake the drilling work. This company is well known as a supplier for these services in NZ. The supplier has proven track record of implementing similar drilling management strategies is required. Sufficient resources and expertise to complete the scope of works in a safe, timely and satisfactory manner, a proven track record of

delivering high-quality groundwater bores; good knowledge of the Region; a good knowledge of geology and hydrogeology; and excellent health and safety processes and documentation.

Based on the above information there is a high level of confidence that compliance of the Environmental Standard for Drilling of Soil and Rock and any other relevant standard will be met. Based on this assessment adverse effects will be less than minor.

- b) Bore location, size (including diameter of the bore casing) and depth including any setbacks from other bores;***
- c) Bore screening depth and type;***
- d) Backflow prevention;***
- e) Details of pump tests performed in accordance with Appendix H21;***
- f) Information requirements including bore logs, piezometric levels, groundwater tests and bore construction details;***

As discussed in this application details of the bores including, location,, depth and diameter, screening type and depth, backflow prevention, pump testing, bore logging, and bore construction details will not be known until the bores are established.

The bore location will be confirmed prior to drilling and can be submitted as a site plan to the consenting team prior to drilling works. I propose a consent condition to this effect. Other information can be submitted when they become known.

Compliance with Appendix H21 of the Tairāwhiti Resource Management Plan will be achieved through consent conditions, in addition this requirement has been included as a clause in the drilling contract agreement.

Based on this assessment adverse effects are less than minor.

***g) Duration of consent***

The proposed bores will be used for Council scientific monitoring purposes only, water abstraction is not proposed, the duration of this consent is requested as per the standard duration time of a consent.

***Review of consent conditions;***

A condition of consent is proposed that provides an opportunity for Council to review all of the consent conditions annually, in the event an unanticipated or actual effect from the proposed bore is identified. In turn, this will mitigate potential effects on the environment such that they are less than minor.

***h) Monitoring requirements including provision of access for measuring water level, water pressure or water quality and provision made for water meter installation;***

The bores will be installed on private land, a access agreement will be established for the long term and access to the bores for consent monitoring purposes will be ensured. Telemetry technology and other testing devises will be considered should the bore be used for portable water use, these matters can be

addressed at the next consenting stage. Water testing for quantity and quality will be undertaken once drilling is established. Based on this assessment adverse effects will be less than minor.

***i) Measures to conserve water, including sealing artesian bores;***

Not applicable to this application.

***j) Requiring payment of a monitoring fee.***

A consent condition requiring the payment of the monitoring fees (if any) is proposed.

Effects Conclusion.

It is considered that the actual and potential effects of the proposal are able to be avoided, remedied or mitigated through the imposition of appropriate conditions. The assessment in accordance with s95D as to whether the activity will have or is likely to have adverse effects on the environment that are more than minor has concluded that this will not be the case and that the adverse effects on the environment will be less than minor.

Relevant Provisions - Section 104(1)(b).

National Environmental Standard for Assessing and Managing Contaminants in Soil to protect Human Health (NES)

The NES came into effect in January 2012 and seeks to manage actual and potential adverse effects of contamination in soil on human health from particular activities that have occurred on the site. The NES includes a Hazardous Activities and Industries List (HAIL) that sets out which activities may have potentially contaminated the soil. The NES applies when a person wants to undertake an activity described in subclauses (2) to (6) on a piece of land described in subclause (7) or (8).

The proposal will not result in a change of use on the piece of land, and the soil disturbance will not be above the permitted threshold of 25m<sup>3</sup> per 500m<sup>2</sup> of land associated with the proposed activity. Therefore, the NES does not apply.

National Policy Statement for Freshwater Management (NPS-FM)

The assessment of effects (above) is also considered relevant to this assessment and given the purpose of this proposal it is considered that the application is constant with the requirements of the NPS-FM. In addition to the above, the outcomes of this project will positively contribute towards the objectives set out under Te Mana o te Wai, as such will enhance the role of whanau, hapu and iwi in the freshwater management framework.

Tairāwhiti Resource Management Plan (TRMP) Objectives and Policies, including the RPS

Given the assessment made under 104 (1)(a), including the conditions and mitigation measures proposed this application is considered to be consistent with the objectives and policies of the relevant plans.



Part 2 Matters: I consider that the effects of the proposal will be less than minor as stated in the effects conclusion above. In terms of life supporting capacity of water this project will enable access to new scientific knowledge of the groundwater systems, including water quality and quantity information in the Waipaoa Catchment

This application has taken into account the relevant provisions of sections 6, 7 and 8 of the RMA and consider that this application will achieve the purpose of the Act as presented in section 5 of the RMA.

## Draft Conditions for Consideration

1. The purpose of this resource consent is to authorise and set conditions for the installation of up to 1 bores at separate locations (maximum of 10 in total), pump testing and the discharge of drilling fluids to land.
2. The activities authorised under this consent shall be located within the Waipaoa Catchment area only
3. The consent holder shall ensure that no drilling occurs:
  - a) Within 50 metres (m) of any surface water body (excluding a wetland) or existing bore;
  - b) On sites of high ecological value, outstanding natural features or landscapes or protected natural areas;
  - c) Within 10 m of a natural wetland;
  - d) Within 20 m of any known archaeological site (see Advice Note 5);
  - e) Within the horizontal setback distances set in AS/NZS 1547:2001 (Table R1) of a wastewater land disposal field; or
  - f) On any land which is known to be contaminated as a result of Hazardous Activities and Industries.

### Resource Management Charges

4. Pursuant to Section 36 of the Resource Management Act 1991, the consent holder shall pay the actual and reasonable costs incurred by the Gisborne District Council when monitoring the conditions of this consent.

### Standards

5. The bore shall be installed and constructed by a suitably qualified and experienced bore driller.
6. The consent holder shall comply in all respects with the Bore Construction Requirements set out in Appendix H21 of the Tairāwhiti Resource Management Plan and the New Zealand Standard 'Environmental Standard for Drilling of Soil and Rock' NZS 4411:2001.
7. Water quality testing, including piezo metric level shall be undertaken on the water from the bore and a copy of the results shall be forwarded to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz) within 30 days of the completion of the bore drilling (see Appendix H21, and Water Quality Analysis 3.3 for parameters of water sample).
8. Provision within the bore head infrastructure shall be made for the access to water level, water pressure and water quality for monitoring purposes and provision made for water meter installation.

9. Bores shall be secured with a sealed top, and any penetrations for cabling, pumps or monitoring devices shall be constructed utilising the correctly specified glands to ensure the prevention of entry of contaminants from the ground surface into the bore.
10. Each bore shall be constructed with a concrete apron or Bentonite surround around the base of the well head. This shall be designed in such a manner as to prevent water, and debris from pooling or accumulating around the base of the well head.
11. Where any bore is fitted with a pump/or is artesian, the consent holder shall install a backflow prevention device, or take other appropriate measures to ensure water and/or contaminants cannot return to the water source.
12. The final bore height and design of any associated above-ground infrastructure shall mitigate the bores susceptibility to flooding (see Advice Note 4).
13. Within 6 months of any of the bores authorised by this resource consent no longer being utilised, shall be decommissioned by the consent holder in accordance with the permitted standards of the Tairāwhiti Resource Management Plan (or any plan that supersedes it) and the New Zealand Standard 'Environmental Standard for Drilling of Soil and Rock' NZS 4411:2001.

### **Bore Log**

14. Within one month of completion of each bore installation, the consent holder shall forward to Team Leader Monitoring and Compliance, Gisborne District Council, at [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz), a detailed bore log for the bore and an as-built construction diagram that shows the final cross-sectional construction of the bore (including depth, casing and screen details).
15. The bore log, as required by condition 5.1, as a minimum shall include:
  - a) Location of the bore or well (including property address and NZTM Grid Reference or Global Positioning System (GPS) co-ordinates);
  - b) Bore head pressure or depth to water level (whichever is applicable);
  - c) The purpose of the bore or well;
  - d) Results of any test(s) (e.g. flow rates, drawdown at specific times, temperature and any information analysis);
  - e) Actual bore depth and diameter;
  - f) Full construction details (including final casing and screen details);
  - g) A bore log showing the depths of geological strata intercepted at the bore;
  - h) The method of drilling.

### **Post Works**

16. A copy of the pump tests. reporting, notification and submission of records carried out on the bores shall be forwarded to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz)

### **Term of Consent**

17. This consent shall expire on 30 June 2027.

### **Review of Consent Conditions**

18. The Gisborne District Council may serve notice on the permit holder of its intention to review the conditions of this permit pursuant to Section 128 of the Resource Management Act 1991. Such a review will be within one month after the first anniversary of the commencement of this permit, or at monthly intervals during the works and thereafter within one month after each subsequent anniversary, for the following reasons:

- a) to require the permit holder to adopt the best practicable option to remove or reduce any adverse effects on the environment; or
- b) to deal with any other adverse effects on the environment on which the exercise of this permit may have an influence.

### **Advice Notes**

- The granting of this consent does not remove the requirement to obtain any further consent(s) to authorise the taking of water from any of the bores. Resource consent is required to take water from the bore on an on-going basis unless the take is authorised by section 14(3) of the Resource Management Act 1991 (RMA) or permitted by an operative or proposed rule in a Regional Plan.
- The Consent Holder is responsible for ensuring that all contractors carrying out works under this consent are made aware of the relevant consent conditions, plans and associated documents.
- The Consent Holder is advised that this consent does not in itself give any authority to enter or carry out work on private land nor does it imply any exclusive right to operate over the area allotted to the holder. It also does not excuse the holder from obtaining all other legal and statutory requirements for instance the legal access through private land and the Health and Safety Act.
- The Consent Holder is advised that there is the potential for sites to be liable to flooding, and construction of the bores may need to be raised on a concrete plinth above flood levels in order to avoid surface contaminants from entering groundwater. Advice can be sort from the Gisborne District Council on flood levels.
- No archaeological sites whether recorded or unrecorded under Subpart 2 of the Heritage New Zealand Pouhere Taonga Act 2014 can be destroyed, damaged or modified without the consent of Heritage New Zealand. In the event that an archaeological site(s) and/or koiwi are unearthed, the consent holder is advised to immediately stop work on the part of the site that the archaeological site(s) is located, and contact Heritage New Zealand and all relevant iwi/hapu for advice. Heritage New Zealand contact details: email - [infolowernorthern@heritage.org.nz](mailto:infolowernorthern@heritage.org.nz); phone - 07 577 4530



4 August 2022

GISBORNE DISTRICT COUNCIL - STRATEGY AND SCIENCE  
PO BOX 747  
GISBORNE 4040

Dear Sir/Madam

The application for resource consent by GISBORNE DISTRICT COUNCIL - STRATEGY AND SCIENCE for **\*\*GLOBAL \*\*** to vary the existing resource consent (LB-2022-111043-00) conditions (Council Reference LB-2022-111043-01) has been GRANTED by an authority delegated by the Gisborne District Council. An invoice for the total processing costs will be sent at a later date.

You should note the following provisions of the Resource Management Act 1991 (Act):

- **Consent Commencement (s116):** The resource consent commences immediately unless an objection is lodged. If an objection is made under s357A, the resource consent can only commence once the objection and any appeal under s358, has been decided on, or withdrawn.
- **Expiry Date (s125):** A resource consent lapses 5 years after the date of commencement of the consent unless the consent is given effect to or an application is made and granted for an extension of time.
- **Change of Conditions (s127):** In certain circumstances a consent holder may apply to change or cancel consent conditions.
- **Review of Conditions (s128):** In certain circumstances a consent authority may initiate a review of the consent conditions.
- **Rights of Objection (s357A):** An applicant may object to resource consent decisions made under delegated authority. The objection must be lodged with the consent authority within 15 working days of the notification of the decision. An objection cannot be made if the application was notified and submissions were received.
- **Rights of Objection (s357B):** An applicant may object to any additional charges or the recovery of costs. The objection must be lodged with the consent authority within 15 working days of the notification of the decision.
- **Right of Appeal (s120):** In addition to the rights of objection, the applicant or submitters may appeal to the Environment Court against the decision of the consent authority within 15 working days of the notification of the decision. Section 121 of the Resource Management Act 1991 outlines the appeal procedure.

If you are contemplating an objection or an appeal it is suggested that you seek legal or professional advice and discuss the implications with your advisor.

Council staff will monitor the activity and the consent conditions. Please read the conditions and advice notes carefully. By exercising this resource consent the consent holder agrees that all costs incurred by the Gisborne District Council for, and incidental to, the collection of any debt relating to the monitoring of this resource consent shall be borne by the consent holder as a debt due to Council pursuant to Section 36 of the Act.

Please contact the officer below should you wish to discuss any of the matters above.

Yours faithfully

pp. 

Marcia Christian

**Resource Consents Officer**

## RECOMMENDED CONSENT CONDITIONS

Pursuant to Sections 104, 104C, and 108 of the Resource Management Act 1991, Gisborne District Council **grants:**

A resource consent:

- Under sections 9(2)(a), 14(3)(a) and 15(1)(b) of the Resource Management Act 1991 and Rule 6.2.6(3) of the Tairāwhiti Resource Management Plan, to install a bore, take groundwater for pump testing purposes and discharge drilling to test fluids to land

Subject to the following conditions:

### 1 Purpose

- 1.1 The purpose of this resource consent is to authorise and set conditions for the installation of up to 10 groundwater-monitoring bores, pump testing and the discharge of drilling fluids to land, for Scientific Research.

### 2 Location

- 2.1 The activity authorised by this resource consent shall be located within the Waipaoa Catchment and Muriwai area as shown on GDC Consent Plan LB-2022-111043-00 – Site Location, and subject to condition 2.2.
- 2.2 The consent holder shall ensure that no drilling occurs:
  - a) Within 50 metres (m) of any surface water body (excluding a wetland) or existing bore;
  - b) On sites of high ecological value, outstanding natural features or landscapes, or protected natural areas;
  - c) Within 10 m of a natural wetland;
  - d) Within 20 m of any known archaeological site (see Advice Note 5);
  - e) Within the horizontal setback distances as set in AS/NZS 1547:2001 (table R1) of a wastewater land disposal field; or
  - f) On any land which is known to be contaminated as a result of Hazardous Activities and Industry.

### 3 Resource Management Charges

- 3.1 Pursuant to Section 36 of the Resource Management Act 1991, the consent holder shall pay the actual and reasonable costs incurred by the Gisborne District Council when monitoring the conditions of this consent.

### 4 Standards

- 4.1 The bore shall be installed and constructed by a suitably qualified and experienced bore driller.
- 4.2 The consent holder shall comply in all respects with the Bore Construction Requirements set out in Appendix H21 of the Tairāwhiti Resource Management Plan

and the New Zealand Standard 'Environmental Standard for Drilling of Soil and Rock' NZS 4411:2001.

- 4.3 Water quality testing, including piezo metric level shall be undertaken on the water from the bore and a copy of the results shall be forwarded to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz) within 30 days of the completion of the bore drilling (see Appendix H21, and Water Quality Analysis 3.3 for parameters of water sample).
- 4.4 Provision within the bore head infrastructure shall be made for the access to water level, water pressure and water quality for monitoring purposes and provision made for water meter installation.
- 4.5 Bores shall be secured with a sealed top, and any penetrations for cabling, pumps or monitoring devices shall be constructed utilising the correctly specified glands to ensure the prevention of entry of contaminants from the ground surface into the bore.
- 4.6 Each bore shall be constructed with a concrete apron or Bentonite surround around the base of the wellhead. This shall be designed in such a manner as to prevent water, and debris from pooling or accumulating around the base of the wellhead.
- 4.7 Where any bore is fitted with a pump/or is artesian, the consent holder shall install a backflow prevention device, or take other appropriate measures to ensure water and/or contaminants cannot return to the water source.
- 4.8 The final bore height and design of any associated aboveground infrastructure shall mitigate the bores susceptibility to flooding (see Advice Note 4).
- 4.9 Within 6 months of any of the bores authorised by this resource consent no longer being utilised, shall be decommissioned by the consent holder in accordance with the permitted standards of the Tairāwhiti Resource Management Plan (or any plan that supersedes it) and the New Zealand Standard 'Environmental Standard for Drilling of Soil and Rock' NZS 4411:2001.
- 4.10 The consent holder shall ensure that drilling and pump testing fluids are discharged to land in a manner where it shall not enter water.

## 5 Bore Log

- 5.1 Within one month of completion of each bore installation, the consent holder shall forward to Team Leader Monitoring and Compliance, Gisborne District Council, at [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz), a detailed bore log for the bore and an as-built construction diagram that shows the final cross-sectional construction of the bore (including depth, casing and screen details).
- 5.2 The bore log, as required by condition 5.1, as a minimum shall include:
  - Location of the bore or well (including property address and NZTM Grid Reference or Global Positioning System (GPS) co-ordinates);
  - Bore head pressure or depth to water level (whichever is applicable);
  - The purpose of the bore or well;
  - Results of any test(s) (e.g. flow rates, drawdown at specific times, temperature and any information analysis);
  - Actual bore depth and diameter;
  - Full construction details (including final casing and screen details);
  - A bore log showing the depths of geological strata intercepted at the bore;

- The method of drilling.

## 6 Post Works

- 6.1 A copy of the pump tests carried out on the monitoring bores shall be forwarded to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz). Reporting, notification and submission of records required by conditions of this consent should be directed to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz) or (in writing) to the Team Leader Monitoring and Compliance, Gisborne District Council, PO Box 747, Gisborne 4040. This notification shall include the consent number LB-2022-111043-00. The copy of the pump test should be to the satisfaction of the consent authority.
- 6.2 A copy of the details of any backflow preventions shall be supplied to [compliance.admin@gdc.govt.nz](mailto:compliance.admin@gdc.govt.nz) within 30 days of the granting of this consent.

## 7 Access

- 7.1 This permit is granted by the consent authority subject to its servants and agents being permitted access to the relevant parts of the site at all times for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.

## 8 Term of Consent

- 8.1 This consent shall expire on 30 June 2027.

## 9 Review of Consent Conditions

- 9.1 The Gisborne District Council may serve notice on the permit holder of its intention to review the conditions of this permit pursuant to Section 128 of the Resource Management Act 1991. Such a review will be within one month after the first anniversary of the commencement of this permit, or at monthly intervals during the works and thereafter within one month after each subsequent anniversary, for the following reasons:
- a) To require the permit holder to adopt the best practicable option to remove or reduce any adverse effects on the environment; or
  - b) To deal with any other adverse effects on the environment on which the exercise of this permit may have an influence.

## Advice Notes

- 1 The granting of this consent does not remove the requirement to obtain any further consent(s) to authorise the taking of water from any of the bores. Resource consent is required to take water from the bore on an on-going basis unless the take is authorised by section 14(3) of the Resource Management Act 1991 (RMA) or permitted by an operative or proposed rule in a Regional Plan.



- 2 The Consent Holder is responsible for ensuring that all contractors carrying out works under this consent are made aware of the relevant consent conditions, plans and associated documents.
- 3 The Consent Holder is advised that this consent does not in itself give any authority to enter or carry out work on private land nor does it imply any exclusive right to operate over the area allotted to the holder. It also does not excuse the holder from obtaining all other legal and statutory requirements for instance the legal access through private land and the Health and Safety Act.
- 4 The Consent Holder is advised that these sites are liable to flooding and construction of the bores may need to be raised on a concrete plinth above flood levels in order to avoid surface contaminants from entering groundwater.
- 5 No archaeological sites whether recorded or unrecorded under Subpart 2 of the Heritage New Zealand Pouhere Taonga Act 2014 can be destroyed, damaged or modified without the consent of Heritage New Zealand. In the event that an archaeological site(s) and/or koiwi are unearthed, the consent holder is advised to immediately stop work on the part of the site that the archaeological site(s) is located, and contact Heritage New Zealand and all relevant iwi/hapu for advice. Heritage New Zealand contact details: email - [infolowernorthern@heritage.org.nz](mailto:infolowernorthern@heritage.org.nz); phone - 07 577 4530.