

WHAKATĀNE DISTRICT COUNCIL
Matatā Wastewater Scheme

**Addendum 1 to Resource Consents and Notices of
Requirement Assessment of Effects on the
Environment**

**Resource Consent Application for Stormwater
Discharge**

Prepared for Whakatāne District Council
December 2013

Whakatāne District Council

Matatā Wastewater Scheme - Stormwater Discharge

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Application Form



Bay of Plenty Regional Council
PO Box 364
Whakatāne 3158

Free Phone: 0800 884 880

Free Fax: 0800 884 882

Website: boprc.govt.nz

File ref.

	SEEN		SEEN

Office Use Only

**Application for a Resource Consent - Resource Management Act 1991 (s.88)
Form 4A Discharge Stormwater to Water and/or Land from Urban or
Residential/Rural Development**

Before you make an application it is recommended that you talk or meet with a Consents Officer to discuss. A Consents Officer may also be able to undertake a site visit to provide further advice.

If you would like to arrange this, please phone 0800 884 880.

If you are applying for more than one activity and you have already completed the basic details in Parts 1 on another form, go straight to Part 2 of this form.

See notes to applicant (last pages of form) before proceeding with application form.

Under section 88 of the Resource Management Act 1991, the undersigned hereby makes application for resource consent(s).

A consent can only be issued to a legal entity such as a person(s), limited company, incorporated society, etc.

1 Full name of applicant(s) (the name that will be on the consent)

Surname

First names

OR

If the application is being made on behalf of a trust, the Trustees must be named.

Trust name

Trustees' names

OR

Company name Whakatāne District Council

Contact person Inka Krawczyk

Postal address Private Bag 1002, Whakatāne 3158

Telephone (please tick preferred contact number)

Residential

Business 07 306 0577

Cell

Facsimile 07 307 0718

Email inka.krawczyk@whakatane.govt.nz

2 **Details of consultant** (or other person authorised to make application on behalf of applicant)

Company name MWH NZ Ltd

Contact person Garrett Hall

Postal address PO Box 12-941

Telephone (please tick preferred contact number)

Residential

Business 09 580 7664

Cell 027 240 9017

Facsimile

Email

All correspondence, including invoices for charges, relating to this application(s) should be sent to:

Applicant

Consultant

3 **Name and address of owner/occupier** (of the site relating to application)

Owner Whakatāne District Council

Postal address Private Bag 1002, Whakatāne 3158

Residential phone

Business phone 07 306 0577

Occupier

Postal address

Residential phone

Business phone

Owner Sheryl Margaret Robinson, Shayne Aaron Robinson, Whakatāne Trustee Services Ltd

Postal address 27A James Street, Whakatāne

Residential phone 07 308 8341 or 027 312 0394 Business phone

Occupier

Postal address

Residential phone

Business phone

Please note: If the applicant is not the owner of the land to which the activity relates, then it is good practice to submit the application with written approval from the landowner.

4

Consent(s) being applied for from Bay of Plenty Regional Council

- (a) You will need to fill in a separate form for each of the activities you propose to undertake. You may also need consent for one or more of the following.

Land Use

- Form 1A Culverts, Bridges, Fords, Erosion Protection, Pipes, and Associated Works
 Form 1B Disturbance In or Around a Water Body (e.g. diversion, dredging, wetland disturbance, gravel extraction)
 Form 1C Lake Structures (new and existing)
 Form 2A Land Disturbing Activities (e.g. earthworks & quarrying)
 Form 2B Land Disturbing Activities (forest harvesting/vegetation clearance)

Discharge (including coastal)

- Form 3A Onsite Effluent Discharge
 Form 3B Discharge Farm Dairy Effluent
 Form 3C Land Use Activities in the Catchments of Lakes Okareka, Rotoehu, Okaro, Rotorua, and Rotoiti
 Form 4A Discharge Stormwater to Water and/or Land from Urban Residential, Rural
 Form 4B Industrial Discharges to Water or Land (including stormwater)
 Form 4C Discharge Contaminants to Air

Water (including coastal)

- Form 5A Water Permit Application (s.14) – Take Surface Water (includes intake structure (s.13))
 Form 5B Water Permit Application (s.14) – Take Groundwater
 Form 5C Dam Water
 Form 5D Divert Water
 Form 6A Geothermal Take and Discharge – Domestic and Light Commercial

Coastal (see point 4 of Notes to Applicant for explanation of the Coastal Marine Area)

- Form 7A Application for Permit for Coastal Structures (including associated occupation and disturbance)
 Form 7B Application to Disturb Coastal Marine Area (no structure)

- (b) In which District is the activity located?

- | | |
|---|--|
| <input type="checkbox"/> Whakatane District | <input type="checkbox"/> Opotiki District |
| <input type="checkbox"/> Rotorua District | <input type="checkbox"/> Kawerau District |
| <input type="checkbox"/> Western BOP District | <input type="checkbox"/> Tauranga District |
| <input type="checkbox"/> Taupo District | |

- (c) Is this application to replace an existing or expired consent(s)? Yes No

If Yes, please state the consent number(s)

- (d) Please specify the duration sought for your consent(s).

35 Years Months

Start date

Completion date (if applicable)

- (e) Do you also require resource consent(s) from a district council? Yes No

Type of consent required Earthworks

- Has it been applied for? Yes No

Has it been granted? (If Yes, please attach.)

Yes No

5 Location description of activity

Site Address 1186Z Thornton Road, Matatā, 1432B Bennett Road, Matatā

Legal description (*legal description can be obtained from your certificate of title, valuation notice, or rate demand*)

Pt Allot 273 Rangitaiki Parish (SO 332912), Allot 107 Rangitaiki Parish (SO 21226)

Map reference NZMS 260, (if known)

PART 2

1 Description of activity

(a) Where is the stormwater discharged from? (*tick all that apply*)

Roofs/buildings

Car parks

Other (*please specify*) Proposed Land Application Field and access road

(b) Is there an outlet structure in a water body? Yes No

If Yes, please provide a plan and specifications.

(c) What is the 10 minute 10% Annual Exceedence Probability (AEP) at your site? (*Your engineer can work this out for you.*)

241 litres/second _____

2 Nature of discharge

What are the potential contaminants, and their concentrations, in the discharge? (*tick all that apply*)

Suspended solids mg/L

Copper mg/L

Total Petroleum Hydrocarbon mg/L

Zinc g/m³

Other mg/L

3 Site Plan

On a separate piece of good quality A4 (*minimum*) paper, please provide a site plan showing location of the activity and receiving environment in relation to property boundaries.

If you do not have access to mapping software, we recommend you use the regional mapping system available on our website (www.boprc.govt.nz keywords 'regional mapping'). The mapping system includes property boundary and contour layers, and allows you to carry out a property search, and view and/or print topographic maps or aerial photography.

See Resource Consents and Notices of Requirement Assessment of Effects on the Environment for the Matatā Wastewater Scheme dated December 2013 (AEE), already submitted.

4

Receiving environment

Please fill out the receiving environment information for **either** (a) surface water, **or** (b) land soakage.

See attached AEE Addendum

(a) Surface water body (*stream, pond, drain, etc.*) or land where it may enter water

Name(s) of water body(ies)

Sensitivity of water body

Is the discharge:

- Diffuse (*discharge that does not occur at a specific, identifiable point*)
- In the Coastal Marine Area
- Point source (*discharge at one location through outlet such as a pipe or channel*)

Please describe erosion protection provided at the discharge point.

Is there any water abstraction in the vicinity? Yes No

Is the surrounding area used for food gathering? Yes No

Are there any recreational areas close to the discharge? Yes No

If Yes, name of area

Are there any culturally significant areas close to the proposed discharge area? Yes No

If Yes, name of area

Are there any special features (*e.g. wetlands, scenic reserves, bird habitats, etc.*) close to the proposed discharge area? Yes No

If Yes, please describe

(b) Land soakage

See Resource Consents and Notices of Requirement Assessment of Effects on the Environment for the Matatā Wastewater Scheme dated December 2013 (AEE), already submitted and attached AEE Addendum

Name of area where land soakage will occur

Sensitivity of land

Is the discharge:

Diffuse (*discharge that does not occur at a specific, identifiable point*)

In the Coastal Marine Area

Point source (*discharge at one location through outlet such as a pipe or channel*)

If Yes, please describe erosion protection provided at the discharge point.

What is the soil type of the area where land soakage will occur?

What is the drainage of the area where land soakage will occur?

What is the distance to groundwater at the point of discharge?

m

Is the surrounding area used for food gathering?

Yes No

Are there any recreational areas close to the discharge?

Yes No

If Yes, name of area

Are there any culturally significant areas close to the proposed discharge area?

Yes No

If Yes, name of area

Are there any special features (*e.g. wetlands, scenic reserves, bird habitats, etc.*) close to the proposed discharge area?

Yes No

If Yes, please describe

5 **Treatment**

See attached AEE Addendum

Is there any proposed treatment of the water?

Yes No

6 **Storage**

See attached AEE Addendum

Is there any proposed attenuation (*storage*) of the water?

Yes No

If Yes, please describe (attach attenuation specifications if applicable):

7 Alternatives

See Resource Consents and Notices of Requirement Assessment of Effects on the Environment for the Matatā Wastewater Scheme dated December 2013 (AEE), already submitted and attached AEE Addendum

- (a) What alternative methods of disposal or discharge locations have you considered?
- (b) Why did you choose the proposed method of disposal and location?

Continue on a separate sheet if necessary.

8 Maintenance and contingency

How will the equipment controlling the discharge be operated and maintained to prevent equipment failure, and what measures will be implemented to ensure that the effects of any malfunction are remedied?

See attached AEE Addendum

Continue on a separate sheet if necessary.

9 Monitoring

What, if any, monitoring do you propose to carry out to ensure that the discharge does not have any adverse effect?

See attached AEE Addendum

Continue on a separate sheet if necessary.

10 Persons likely to be directly affected

Please publicly notify the application

Affected persons or parties may include neighbouring land owners and occupiers, and/or organisations such as the Department of Conservation, Land Information New Zealand (LINZ), Fish and Game Council, local iwi, and community groups.

If you do not think there will be affected parties, you do not need to fill out this section; however, the Bay of Plenty Regional Council will make the final assessment of whether a person or party is affected by your proposal, and you may be asked to consult with such persons or parties at a later date.

In order for your application to be considered for **non-notification** you **must** gain written approval from all persons who may be affected by the proposal. The Bay of Plenty Regional Council can help you identify people/organisations that are likely to be affected, and the form 'Affected Person's Written Approval', which can be filled out by the affected party and attached to this application, can be found at **www.boprc.govt.nz keywords 'resource consent forms'**.

Please provide details below of those you have identified as parties who may be affected. If you have discussed your proposal with any of these parties, please record any comments made by them and your response to them, and submit this with your application.

Name

Address

Written approval supplied (*attached*).

Name

Address

Written approval supplied (*attached*).

Name

Address

Written approval supplied (*attached*).

Continue on a separate sheet if necessary.

11 Extending timeframes

The Resource Management Act 1991 (RMA) specifies timeframes for processing resource consent applications (e.g. 20 working days for a non-notified application); however, these timeframes can be extended, if necessary, with the applicant's agreement.

Do you agree to the Bay of Plenty Regional Council extending RMA consent processing timeframes?

- Yes, provided that I can continue to exercise my existing consent until processing of this application is completed (*renewal applications only*).
- Yes, provided that the extension is for the specific purpose of discussing and trying to agree on consent conditions.
- Yes, provided that the application process is completed before
- No.

12 Deposit fee

A deposit fee of \$774.00, inclusive of GST, is payable with this application. This may be paid online, by cheque, or by eftpos at one of the Regional Council's reception desks.

- Bay of Plenty Regional Council's bank account number is **06 0489 0094734 00**. Please use the applicant's name as the reference. A GST invoice marked "PAID" will be issued on receipt of payment.
- An application will not be accepted as a complete application until the deposit fee has been paid. **Please note:** while we are happy to hold the forms in the meantime, the processing time will not start until payment is received.
- Additional charges are usually incurred, and will vary depending on the resources we use in the course of processing your application (*e.g. staff time*). Staff can give an estimate of expected costs. Please see the schedule of fees attached.

Checklist

If you have dealt with a staff member regarding your consent application, please provide their name here

Jemma Hollis

- Complete all details applicable in this application form.
- Complete all details on the specific consent activity form(s) (e.g. *Land Disturbing Activities*).
- Include an Assessment of Environmental Effects (AEE) of the activity, as set out in Schedule 4, summarised at the back of this form. (*For minor activities, complete the relevant section in the activity application form. For major activities, a more detailed AEE must be attached to the application.*)
- Supply written approval from all affected parties, if any, and/or summary of consultation carried out.
- Include a site plan.
- Sign and date the application form.
- Pay the required deposit.
- Include any other information you think relevant (e.g. *Certificate of Title, details from the Companies Register, etc.*).
- If your application is a large application, please submit an electronic version on CD, and one hard copy.
- Assessment of cultural impacts.

Please be aware any unchecked boxes may result in your application being returned under s.88.

Information privacy issues

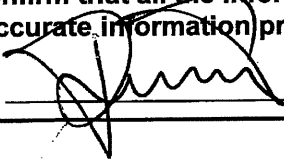
The information you provide in this application is regarded as official information. It is required under the provisions of the Resource Management Act 1991 to process this application, and to assist in the management of the region's natural and physical resources.

The information will be held by Bay of Plenty Regional Council, Quay Street, Whakatāne. This information is subject to the provisions of the Local Government Official Information and Meetings Act 1987, and the Privacy Act 1993. The information you provide in this application will generally be available to the public. If there is any information that you would like to remain confidential please contact a Consents Officer to discuss.

Failure to provide this information will mean that Bay of Plenty Regional Council will be unable to process your application.

1. I confirm that I have authority to sign on behalf of the party/ies named as the applicants for this consent.
2. I have read, and understand, all of the information contained on this application form, including the requirement to pay additional costs that will be itemised.
3. I confirm that all the information provided is true and correct and understand that any inaccurate information provided could result in my resource consent later being cancelled.

Signature



Date

12/12/13

1 Assessment of Effects of the Discharge Sediment Contaminated Stormwater at the Land Application Field

1.1 Introduction

The purpose of this document is to provide an assessment of effects for a resource consent application for the discharge of sediment contaminated stormwater to surface water and to land, where it may enter water. This assessment forms an addendum to the Resource Consents and Notices of Requirement Assessment of Effects on the Environment for the Matatā Wastewater Scheme dated December 2013 (AEE), already submitted to the Bay of Plenty Regional Council and Whakatāne District Council.

As advised by the Bay of Plenty Regional Council (BoPRC), a discretionary resource consent is required for the discharge of sediment contaminated stormwater to surface water and to land where it may enter water, pursuant to Rule 37 of the Bay of Plenty Regional Water and Land Plan.

The discharge of sediment contaminated stormwater is associated with the proposed earthworks to construct the Land Application Field and the private road access, as part of the overall construction of the proposed Matatā Wastewater Scheme. Section 12 of the AEE provides an Assessment of Effects on the Environment as a result of Earthworks and Land and Soil Disturbance by Vegetation Clearance for the Land Application Field.

1.2 Description of the Proposal

As part of the overall construction of the proposed Wastewater Scheme, earthworks will be required to install the sub-surface dripper pipes and associated components of the land application system at the Land Application Field, and to construct the private road access to the Field over the adjoining property to the south. The majority of stormwater at the site will discharge to land via normal ground soakage. Stormwater from the access road will be controlled by roadside swales discharging either via the base of the swale to ground, or directed to existing farm drains.

The estimated rate of stormwater discharge for a 10 minute duration 10% AEP (Annual Exceedance Probability) storm event, based on the 4.2 hectare Land Application Field and 0.6 hectares of unsealed access road, would be a total 241 litres per second (160 litres/second for the Land Application Field and 81 litres/second for the access road). These flow rates are considered relatively conservative (high) for the soil and ground types. In reality it could be expected that the discharges would be a lesser rate of flow.

For an overall description of the site and the Proposed Wastewater Scheme, refer to Part A of the AEE, specifically Sections 5 and 7. For a description of the proposed earthworks associated with the Land Application Field and private road access, and assessment of environmental effects, please refer to Section 12 of the AEE.

1.3 Description of Receiving Environment

1.3.1 Land Application Field and Groundwater

The proposed Land Application Field is located on coastal dunes, immediately north of the Bennett Road Stream. Farmland, reclaimed from swamp with excavated dune sand, is located immediately south

of the dunes. A drainage network extends across the farm paddocks suppressing groundwater levels across the farm.

Dune sands extend approximately 6.5 – 7.5m within the coastal dunes and approximately 0.5 – 1.5m over the farmland. Coarse gravel sand of the Tauranga Group are present beneath these, with Tauranga Group sediments interpreted to be alluvial deposits associated with the former river channel and/or beach deposits.

Current groundwater levels in the vicinity of the land treatment area are in the range of 0.1 – 0.6m Above Mean Sea Level (AMSL), with these greatest at the coast, where wave action results in groundwater levels in excess of mean sea level. The drainage network excavated across the farmland suppresses groundwater levels, with the drain water controlled at an elevation of -0.1 to 0.0 AMSL.

Discharge from the drains is to Bennett Road Stream south of the farmland, with this the former channel of the Rangitaiki River prior to diversion.

Saline influence is evident in groundwater across the area, with the farm drains allowing flow from the coast inland. Groundwater reporting on the drains is approximately 70% seawater (based on salinity), with drainage water comprising approximately 60% seawater at the time of measurement. Both groundwater and drain water demonstrate the influence of farming activities, evidenced as elevated nutrient levels (nitrogen and phosphorous) and pathogens (faecal coliforms and E.coli).

1.3.2 Bennett Road Stream

The sand dune is perched approximately 5 – 6m above sea level, with the groundwater gradient sloping towards the surface drain network, which is pumped into the Bennett Road Stream. This makes the Bennett Road Stream the ultimate receiving aquatic environment.

The limited site investigation conducted to date showed similar poor water quality within the surface drainage network and the Bennett Road Stream. Levels of total nitrogen (TN) and total phosphorus (TP) within the Bennett Road Stream were found to be in the order of 1.5 – 2.0 mg/L and 0.05 – 0.2 mg/L, respectively. These levels are above the ANZECC (2000) default trigger values for TN and TP for lowland rivers, slightly disturbed ecosystem in New Zealand. This is consistent with previous investigation results for other sites within the Lower Tarawera River catchment, reflecting the high nutrient load caused by the heavy agricultural land use in the area. The pathogen levels within the surface drainage network and Bennett Road Stream are also reasonably high (e.g. up to over 300 cfu/100ml of E.coli were found in both the surface drainage network and the Bennett Road Stream), showing the degraded status of water quality due to the farm land runoff within the wider catchment.

Monitoring results from the initial benthic macroinvertebrate survey within the Bennett Road Stream, prior to wastewater application, show a good agreement between the upstream and downstream locations. Taxa diversity and abundance was reasonably consistent between the upstream and downstream locations. The community composition results between the upstream and downstream sites are very similar, with the crustacea species Tanaidacea dominating all of the sites. This indicates that all of the monitored sites are influenced by the saline environment and the majority of the species present are typically found in abundance within highly degraded, nutrient rich streams and for some of the species, locations with prolific algae.

Results from the biological indices also show strong consistency between the upstream and downstream sites. In general, the reported biological index results from the Bennett Road Stream are typical of highly modified low lying streams within the region draining predominantly agricultural catchments.

Overall the investigation reflects that the stream is highly impacted by the modified surrounding agricultural land use and also has a strong saline influence.

1.4 Statutory Assessment

Please refer to Section 8 of the AEE.

1.5 Assessment of Effects

1.5.1 Positive Effects including Social and Cultural Effects

The proposed earthworks are a prerequisite for the development of the overall Proposed Wastewater Scheme for which there are a number of positive effects, including positive social and cultural effects. Please refer to Section 14 of the AEE document for a discussion of the positive effects of the wider proposal.

1.5.2 Sedimentation and Water Quality Effects

It is proposed that a condition of consent be included requiring that a Site Management Plan that identifies how sediment, stormwater and erosion will be controlled and contained, be submitted to BoPRC for approval prior to commencement of the works. Proposed mitigation measures will be designed in accordance with EBOP Guideline 2010/01 “Erosion and Sediment Control Guidelines for Land Disturbing Activities”. All erosion and sediment controls and devices will be installed prior to the commencement of earthworks and will be subject to weekly monitoring with additional monitoring within 24 hours after each rainstorm event. The controls will be maintained in an effective capacity at all times during construction, and any accumulated sediment in sedimentation devices shall be removed and placed in a stable position before sediment levels reach 25% of that device’s volume.

The Site Management Plan will include methods to ensure the Bennett Road Stream located adjacent to the access road will not be adversely affected by sediment contaminated stormwater.

Any on-going (post-construction) stormwater discharge entering the farm drains and Bennett Road Stream will be in accordance with permitted activity requirements for the discharge of stormwater to surface water as outlined in Rule 30 of the Bay of Plenty Regional Water and Land Plan. As noted in section 1.3.2 above however, the Bennett Road Stream is already in a degraded state in terms of ecological values due to the presence of farming activities and saline intrusion from the dune area.

With appropriate mitigation in place, including appropriate sediment controls and devices in accordance with the above-mentioned EBOP Guideline, the sedimentation and water quality effects as a result of the stormwater discharge associated with the proposed earthworks are considered to be minor.

1.5.3 Tangata Whenua Considerations

Consultation has been undertaken with the following iwi groups and three Cultural Impact Assessments have been prepared.

- Ngāti Rangitihī with Ngāti Umutahi
- Ngāti Awa
- Ngāti Tuwharetoa with input from Ōnīao marae trustees.

Section 13 of the AEE outlines the recommendations provided in the Cultural Impact Assessments and the response of WDC. The Cultural Impact Assessments are attached to the AEE as Companion Documents.

1.5.4 Summary of Potential Effects and Proposed Mitigation Measures

The potential effects and the proposed mitigation measures are summarised in Table 1-1 below.

Table 1-1: Summary of Potential Effects and Proposed Mitigation Measures

Potential Effect	Magnitude	Proposed Mitigation Measures
Social and Cultural Effects	Positive	None specifically proposed as effects are generally positive (during operational phase).
Sedimentation and Water Quality Effects	Minor	Site Management Plan that identifies how sediment, stormwater and erosion will be controlled and contained to be submitted to Council for approval. Proposed mitigation measures will be designed in accordance with EBOP Guideline 2010/01 "Erosion and Sediment Control Guidelines for Land Disturbing Activities". Sediment controls to be subject to regular monitoring and maintenance.
Tāngata Whenua	Minor	The majority of recommendations requested have been agreed to by WDC as outlined in Section 13 of the AEE.