

OIR: 2324/803

28 March 2024

[REDACTED]
[REDACTED]

Tēnā koe [REDACTED],

Request for Information under the Local Government Official Information and Meetings Act 1987 (the Act) (the LGOIMA)

Thank you for your email of **13 February 2024** requesting the following information:

- 1. A list of all meetings held between KCDC and Tuatara Brewery/DB regarding wastewater issues and concerns relating to their Sheffield St site***

Please find attached excel spreadsheet with the following meeting records (*Meeting with Tuatara & Council.xlsx*) for all meetings held between KCDC and Tuatara Breweries/DB.

- 2. Any correspondence between KCDC and Tuatara Brewery/DB regarding wastewater issues and concerns relating to their Sheffield St site***

Please find attached the following documents to this letter:

- Tuatara Brewery and DB Wastewater e-mail correspondences
- Tuatara Brewery and DB e-mail (Sheffield Street) correspondences

- 3. Any correspondence between KCDC (including the Economic Development Kotahitanga Board) and Tuatara Brewery/DB regarding their decision to relocate to Brewtown in Upper Hutt***

I can confirm that we have checked with the Chair from the Economic Development Kotahitanga Board, and they have confirmed that they had no correspondence with Tuatara Brewery/DB on this issue. Please find attached 'DB e-mail correspondence – relocation from Brewtown to Upper Hutt' to this letter.

Since your request came through, we have received new e-mail correspondence related to the Brewtown relocation to Upper Hutt. Please find attached the following

Please note that any information provided in response to your request may be published on the Council website, with your personal details removed.

document 'Tuatara Brewery and DB – relocation from Brewtown to Upper Hutt e-mail Correspondence' to this letter.

Please note, in all the documents that have been mentioned above, the personal details of other parties have been withheld from this information. The decision to withhold this information is made under section 7(2)(a) of the Act which allows for Council to withhold information in order to protect the privacy of natural persons, including that of deceased natural persons.

In Council's view the reasons for withholding these details are not outweighed by public interest considerations in section 7(1) favouring their release.

You have the right to request the Ombudsman to review this decision. Complaints can be sent by email to info@ombudsman.parliament.nz, by fax to (04) 471 2254, or by post to The Ombudsman, PO Box 10152, Wellington 6143.

Ngā mihi,



Sean Mallon

Group Manager Infrastructure and Asset Management
Kaiwhakahaere Rōpū Anga me te Whakahaere Rawa

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/12/2024 04:05:03 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Kia ora Ramesh,

Thank you for your email. I would like to update you with some significant news about Tuatara. As you know, we have been progressing well with improvements to our wastewater discharge. However, we identified that we would need to make significant investment to ensure we are able to maintain the required limits. As a result of a recent review of the site's long term suitability, we have decided to invest in a new, purpose-built brewery for Tuatara at Brewtown in Upper Hutt. As part of this initiative, we are planning to relocate the Tuatara Brewery to the new facility by the end of this year. This move will enable us to create a future-fit site, capable of producing and packing not just Tuatara beer but also different products and pack formats. We are currently working through the consultation process with affected team members. We value your support, especially over the past year, and look forward to continuing to operate within the Wellington region and maintaining a close connection to the local community. I will keep you updated throughout the process.

Kind regards,
Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Friday, February 9, 2024 2:22 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu
Thank you for the time to discuss about the Tradewaste consent and related improvement projects at your end. Could you provide an update of your projects.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, December 11, 2023 10:27 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
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to municipal treatment facilities.

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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Saturday, 2 December 2023 5:45 pm
To: Lauren Mentjox <[REDACTED]> Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

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From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

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Kind regards,
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Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.
Kind regards.

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
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Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Council's viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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Sent time: 02/09/2024 02:21:59 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Lauren Mentjox <[REDACTED]>
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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
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To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg Tuatara waste water improvement plan December 2023.docx

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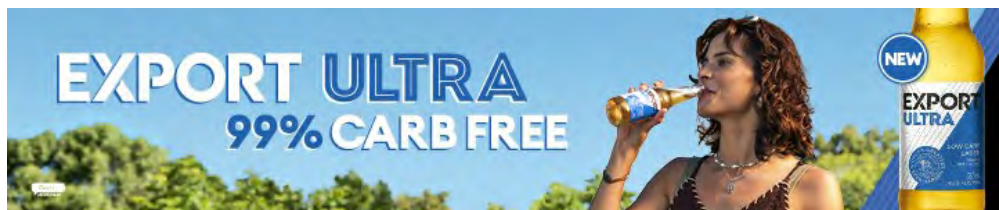
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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

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Tuatara Brewery Trade Waste Improvement Plan**Version 3 – December 2023**

#	Consent Condition	Consent Description	Action	Estimated Completion	Comments	Cost
1	Part 1-5	Event Notification	Update Tuatara Spill Response & Emergency Response	Complete	Chemical spill, SOP has been updated and communicated to staff, to notify KCDC and the Fire Service.	
2	Part 1-8	Temperature < 40°C	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater >40.0°C	
3	Part 1-9; Part 2-11b	pH control & monitoring	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater < 6.0pH or >10pH. pH correction controlled via PLC and dosing pumps & chemicals	
4		WWTP pH probe calibration	Monthly pH probe calibrations	Complete	Underway with records available in request	
5	Part 1-10	Dry solid matter- > 15mm	Solids control	Complete	All wastewater passes through 1 of 2 macerating pumps before discharge to council system	
6	Part 2-2,3,7	Discharge flow rate, volume & hours	Cap discharge pump flow rate	Under Review	<p>Flowrate capped at 2.5m³/hr, totalling max 30m³ between 4pm - 4am.</p> <p>We can manage the daily volume limit with some improvements and the rate of discharge is being maintained.</p> <p>We have installed some buffering capacity (#9) but would need to invest in further capacity, controls and capability to meet the discharge hours requirement.</p> <p>Note, Tuatara is currently discharging during daytime hours after verbal agreement</p>	\$50-100,000 and require 3-6 months

					with the Council's wastewater team to minimise emergency discharges	
7	Part 2-5c	Wastewater flow meter verification	Calibrate wastewater flow meter	Complete	Certified 30/1/23 with biannual calibrations added to preventative maintenance schedule	
8	Part 1-6; Part 2-5b	Wastewater flowmeter data availability	Install Council unit	Complete	Unit installed 04/23. Live online hourly flowmeter rate and volume data available to Council	
9	Part 2-12	On-site storage tank	Increase wastewater storage capacity on site from current 15m ³	Complete 2/6/23	Tuatara has purchased and installed 44m ³ additional storage. The increased buffer volume is sufficient to store the seven-day average discharge volume of 28m ³ /day.	
10	Part 2-6	Composite sampler	Procure and install composite sampler	Complete 09/23	Operational	
11	Part 2-2,3	Additional buffer vessel	Procure and install additional storage tank	Under review	Source additional wastewater storage vessel(s) to buffer a 24hr peak event >45m ³ Additional scope to install buffer and Settling tank to remove solids. This is linked to Item 6 above	
12	Part 2-8	Ongoing Monitoring	Monitoring of composite sampler results	Complete 09/23	Operational	
13	Part 2-4	Discharge Characteristics: COD <2500g/m ³ , BOD <1000g/m ³ , TN <5g/m ³ , TP <50g/m ³ , TSS <1000g/m ³	Divert yeast and hop material from fermentation away from wastewater.	Underway – Est Completion 31/10/23	A two-week intensive wastewater survey in March/April showed high levels of COD/BOD, TN, TSS, in addition to a large volume of wastewater, but consistent with discharge characteristics of similar sized craft breweries. Organic loading mostly arises from three waste streams: Spent grain, spent yeast and trub. At the time of the survey,	

					<p>spent grain had been collected and removed as stock feed. Where practical and possible (due to storage space, odour, haulage), spent yeast can be used as stock feed. To do this, Tuatara has engaged with Grainhub, a stock feed business, to remove yeast and hop slurry. A trial was undertaken in July to store all yeast collected in a holding vessel. Benchmarking showed organic loading can be reduced by 40%, and early sampling results showed an 80% reduction in TSS and a 33% reduction in COD. Sampling results sent in October.</p> <p>Discharge characteristics of pH, FOG and temperature are either being, or can be, achieved.</p> <p>TSS: We are now operating closer to the limit but not 100% below the 1,000g/m³ target. A self-cleaning solids screen removal with pump/controls/piping should enable compliance. This would have some noise and additional waste bins needed and require 6-9 months (mostly due to typical supplier lead times). No significant impact on COD/BOD is expected.</p> <p>COD/BOD – we visited our Timaru site in November to investigate the new \$7m wastewater treatment plant (WWTP) consisting of screens, aerobic bio</p>	<p>\$125-150,000</p>
--	--	--	--	--	--	----------------------

					<p>processing, sludge flocculation and solids screw press. With similar input material it can meet the Kapiti Coast District Council standards for COD/BOD. The Timaru facility has taken several years to complete due to COVID interruptions but would typically take 18-24 months due to consents, size, building works, importing the system, and start-up.</p> <p>A scaled down unit for Tuatara would require the entire front carpark area. This would remove car parking and create noise and odour, as well as require waste truck access. It would also require agreement with our landlord.</p> <p>TN – this is unlikely to be achieved even with a full WWTP on site. The Timaru facility achieves <150 but not <5. We do not currently have a solution for this.</p>	\$1.8 to 2.0m excluding civil works, consents, engineering and project management
14	Part 2-13	Clean in Place (CIP)	Complete feasibility assessment to implement CIP kitchen	01/08/24	<p>This action will examine shifting the brewery to a model to reduce single-use, one-way CIP methodology and chemicals lost to waste. This project would involve significant capital expenditure. We propose to scope and cost the project during the dispensation period examining external supplied and internal options and, subject to an investment decision and capital allocation, complete the project the following budget year.</p>	

15	Part 2-13	Solids removal	Investigate additional methods to reduce TSS	01/08/24	<p>Investigate the installation of additional storage and collection vessels to settle out TSS through coagulation or flocculation, aided by aluminium sulphate or polymers to assist to precipitate. This would depend on commercial and physical (site area and access) viability</p> <p>See Item 13 comments above regarding TSS – this requires a two-stage approach 1. Physical screen system to remove solids (\$125k-\$150k). 2. Full WWTP (\$1.8m-\$2.0m)</p>	
16			Review HEINEKEN water Good Practices	01/02/24	Review HEINEKEN water Good Practices and develop implementation plan of appropriate initiatives.	
17			Consult HEINEKEN global wastewater specialist	01/08/24	<p>We expect to complete this once we have a baseline of performance established with changes already made (#1 to 4) and to explore other means of reducing concentrations.</p> <p>NOTE: As wastewater volume reduces, concentrations (e.g., BOD) will typically increase.</p>	
18			Checkpoint meetings	By agreement	Meet with Council to review progress on the plan. Frequency to be by mutual agreement.	
19			Annual review	12 months	Perform a review in collaboration with Council in 12 months to agree next steps.	

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 12/02/2023 05:45:00 PM
To: Lauren Mentjox <[REDACTED]>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

I hope you're having a great weekend. I have tried to contact Sean to discuss this so will try again first thing in the morning.

Kind regards,
Lauren

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Sunday, 12 November 2023 11:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Council's viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Lauren Mentjox <[REDACTED]>
Sent time: 11/13/2023 03:58:44 PM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

Hi Kim,
No worries at all.
I will call at 3.30pm tomorrow.

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Monday, 13 November 2023 1:55 pm
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

Apologies for the delay in my reply. He has back-to-back meetings today.

He is free tomorrow at 9.30am or 3.30pm.

Regards
Kim

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, November 13, 2023 8:00 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

I hope you had a lovely weekend.

Could you please let me know if Sean has any availability today before 9.30am, at 12.30pm or between 4 and 5pm?
I didn't manage to reach him when I was trying several weeks ago and just need a few mins for a phone call=.

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 25 October 2023 11:01 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

He is free until 1.30pm today so you could call him now if that suits.

Kim 🙏

Kim Kennedy

Kāpiti Coast District Council



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From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, October 25, 2023 10:18 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

I hope all is well with you. I was wondering if you could please let me know if Sean has any availability for a quick phone call today? Literally five mis.

Thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 20 September 2023 9:59 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I have booked an hour at 1pm on 3rd October. If you come to reception and ask for me, I will collect you and bring you over to Sean's Office in the Maple Building.

Many thanks
Kim ☺

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, September 20, 2023 9:31 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

Could we please book in for 1pm on the 3rd of October with Sean?

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Tuesday, 19 September 2023 1:30 pm
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I tried to call you back. Give me a call when you are free.

Kim ☺

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, September 18, 2023 5:01 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Sean,

Just following up on this as our availability has changed. We could do a meeting this Thursday afternoon or alternatively 2 or 3 October.

Thanks,
Lauren

From: Lauren Mentjox
Sent: Friday, 15 September 2023 4:15 pm
To: sean.mallon@kapiticoast.govt.nz
Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up

Hi Sean,

It would be good to meet with you sometime in the next couple of weeks to discuss DB's wastewater improvement plan, progress and next steps.
We have engaged a technical engineer, Andy Stockley to support us in this process, and would like to bring him along to a meeting.

Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of those would be suitable.

Have a great weekend,

Lauren

Lauren Mentjox, Corporate Affairs Director, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

GenderTick.



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From: Kim Kennedy <[REDACTED]>
Sent time: 11/13/2023 01:54:54 PM
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

Hi Lauren

Apologies for the delay in my reply. He has back-to-back meetings today.

He is free tomorrow at 9.30am or 3.30pm.

Regards
Kim

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, November 13, 2023 8:00 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

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I didn't manage to reach him when I was trying several weeks ago and just need a few mins for a phone call=.

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Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 25 October 2023 11:01 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

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Kim ☺

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, October 25, 2023 10:18 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

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Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 20 September 2023 9:59 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

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Many thanks
Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

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To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

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Subject: RE: DB - KCDC catch up

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Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, September 18, 2023 5:01 PM

To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>

Cc: Kim Kennedy <[REDACTED]>

Subject: RE: DB - KCDC catch up

Hi Sean,

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Thanks,
Lauren

From: Lauren Mentjox

Sent: Friday, 15 September 2023 4:15 pm

To: sean.mallon@kapiticoast.govt.nz

Cc: Kim Kennedy <[REDACTED]>

Subject: DB - KCDC catch up

Hi Sean,

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We have engaged a technical engineer, Andy Stockley to support us in this process, and would like to bring him along to a meeting.

Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of those would be suitable.

Have a great weekend,

Lauren

Lauren Mentjox, Corporate Affairs Director, DB Breweries Ltd.

Mobile: [REDACTED]

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From: Lauren Mentjox <[REDACTED]>
Sent time: 11/13/2023 08:00:00 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

Hi Kim,

I hope you had a lovely weekend.

Could you please let me know if Sean has any availability today before 9.30am, at 12.30pm or between 4 and 5pm? I didn't manage to reach him when I was trying several weeks ago and just need a few mins for a phone call=.

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 25 October 2023 11:01 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

He is free until 1.30pm today so you could call him now if that suits.

Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, October 25, 2023 10:18 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

I hope all is well with you. I was wondering if you could please let me know if Sean has any availability for a quick phone call today? Literally five mins.

Thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 20 September 2023 9:59 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I have booked an hour at 1pm on 3rd October. If you come to reception and ask for me, I will collect you and bring you over to Sean's Office in the Maple Building.

Many thanks
Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, September 20, 2023 9:31 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

Could we please book in for 1pm on the 3rd of October with Sean?

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Tuesday, 19 September 2023 1:30 pm
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I tried to call you back. Give me a call when you are free.

Kim ☺

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, September 18, 2023 5:01 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Sean,

Just following up on this as our availability has changed. We could do a meeting this Thursday afternoon or alternatively 2 or 3 October.

Thanks,
Lauren

From: Lauren Mentjox
Sent: Friday, 15 September 2023 4:15 pm
To: sean.mallon@kapiticoast.govt.nz
Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up

Hi Sean,

It would be good to meet with you sometime in the next couple of weeks to discuss DB's wastewater improvement plan, progress and next steps.
We have engaged a technical engineer, Andy Stockley to support us in this process, and would like to bring him along to a meeting.

Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of

those would be suitable.

Have a great weekend,

Lauren

Lauren Mentiox, Corporate Affairs Director, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

GenderTick.



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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 11/12/2023 11:48:45 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.

Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Councils viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Lauren Mentjox <[REDACTED]>
Sent time: 10/25/2023 11:17:42 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

Thanks Kim,
He's not picking up so I'll send him a note.

Many thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 25 October 2023 11:01 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

He is free until 1.30pm today so you could call him now if that suits.

Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Wednesday, October 25, 2023 10:18 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Kim,

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Thanks,
Lauren

From: Kim Kennedy <[REDACTED]>
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To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I have booked an hour at 1pm on 3rd October. If you come to reception and ask for me, I will collect you and bring you over to Sean's Office in the Maple Building.

Many thanks
Kim 😊

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

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To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

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Kim ☺

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council
[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, September 18, 2023 5:01 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Sean,

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Thanks,
Lauren

From: Lauren Mentjox
Sent: Friday, 15 September 2023 4:15 pm
To: sean.mallon@kapiticoast.govt.nz
Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up

Hi Sean,

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Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of those would be suitable.

Have a great weekend,

Lauren

Lauren Mentiox, Corporate Affairs Director, DB Breweries Ltd.

Mobile:

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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 10/10/2023 01:27:49 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Tupu

Thanks for the update.

We can wait for couple of weeks more, but you need to set a time frame for these actions.

Could you please advise by when you will be completing your facility assessment and capacity upgrade related project scope, etc., determining the onsite treatment quality that will be in the discharge to council network for which we have to prepare.

Looking forward to a plan with timelines set.

Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Councils viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
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- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 10/10/2023 11:47:49 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23
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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

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From: Lauren Mentjox <[REDACTED]>
Sent time: 09/20/2023 10:43:37 AM
To: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

That's great, thank you.

Cheers,
Lauren

From: Kim Kennedy <[REDACTED]>
Sent: Wednesday, 20 September 2023 9:59 am
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Lauren

I have booked an hour at 1pm on 3rd October. If you come to reception and ask for me, I will collect you and bring you over to Sean's Office in the Maple Building.

Many thanks
Kim 🙄

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

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To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up

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Kim 🙄

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
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Subject: RE: DB - KCDC catch up

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Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up

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We have engaged a technical engineer, Andy Stockley to support us in this process, and would like to bring him along to a meeting.

Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of those would be suitable.

Have a great weekend,

Lauren

Lauren Mentjox, Corporate Affairs Director, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

GenderTick.



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From: Kim Kennedy <[REDACTED]>
Sent time: 09/19/2023 10:30:40 AM
To: Lauren Mentjox <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

Hi Lauren

Sean is available from 2.30pm-4pm this Thursday if that works?

Kim

Kim Kennedy
Executive Secretary to the Group Manager Infrastructure Services
Te Hekeritari Matua Rautaki me te Tupu

Kāpiti Coast District Council

[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Monday, September 18, 2023 5:01 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up

Hi Sean,

Just following up on this as our availability has changed. We could do a meeting this Thursday afternoon or alternatively 2 or 3 October.

Thanks,
Lauren

From: Lauren Mentjox
Sent: Friday, 15 September 2023 4:15 pm
To: sean.mallon@kapiticoast.govt.nz
Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up

Hi Sean,

It would be good to meet with you sometime in the next couple of weeks to discuss DB's wastewater improvement plan, progress and next steps.

We have engaged a technical engineer, Andy Stockley to support us in this process, and would like to bring him along to a meeting.

Potential dates are next Thursday 21 September or (possibly better) Tuesday 26 September. Please let me know if either of those would be suitable.

Have a great weekend,

Lauren

Lauren Mentjox, Corporate Affairs Director, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

GenderTick



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From: Lauren Mentjox <[REDACTED]>
Sent time: 09/18/2023 05:00:52 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: DB - KCDC catch up
Attachments: image001.png image002.jpg

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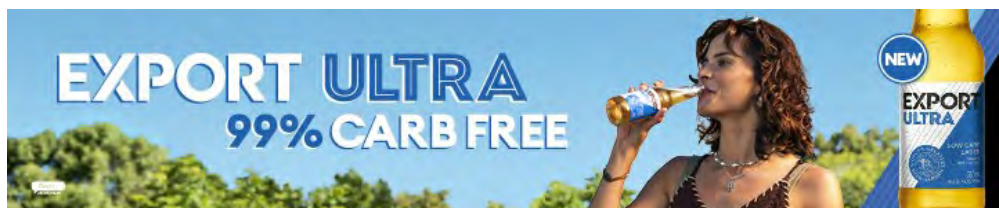
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Mobile: [REDACTED]
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From: Lauren Mentjox <[REDACTED]>
Sent time: 09/15/2023 04:14:44 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: DB - KCDC catch up
Attachments: image001.png image002.jpg

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Mobile: [REDACTED]

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GenderTick.



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From: Lauren Mentjox <[REDACTED]>
Sent time: 08/24/2023 09:23:40 AM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Thanks Sean,
Look forward to hearing from you.

Regards,
Lauren

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Friday, 18 August 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu

Sorry for delay in getting back to you [REDACTED]. Thanks for the improvement plan and will get back to you once the team have had a look through the plan.

Cheers

Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 28, 2023 4:12 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Good afternoon Sean,

Over the last few months, a number of us have been working towards the waste water improvement plan for the Tuatara Brewery. Taking into account the Drafted Conditional Trade Waste Consent conditions presented to Tuatara, we have combined a number of good practices, made some investment towards treatment, and received input from numerous brewery colleagues, to present the attached Improvement plan. It is Tuataras aim to action these over the next few months and years to meet our own goals and that of the Kapiti council.

Once again, Tuatara and DB are committed to the Kapiti Coast community and working together with the Council to meet our obligations.

Regards, Tupu Gregory

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu,

Thanks for the update and an extension to your existing Trade Waste arrangement until we have had an opportunity to review your improvement plan and agree on a future course of action is agreed.

Cheers

Sean Mallon

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, 11 June 2023 4:19 pm
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery

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Tuatara Brewery plays an important role for DB as the 'home of craft', which has historically strong links to the Kapiti Coast. As such, DB is committed to the Kapiti Coast and working together with the Council.

In recent months, Tuatara has worked with the Council water and wastewater team to collect data on the brewery's wastewater discharge. As we continue to gather data, primarily production volume and correlating wastewater volume, and ultimately how waste can be mitigated, we respectfully request an extension to our existing Annual Trade Waste Discharge Consent.

As a clearer picture of our discharge develops, we will develop a plan outlining the steps we will take to meet the 2019 Kapiti Coast Bylaw conditions. We will share a 12-month improvement plan with clear goals and timelines with you before 31 July 2023. If you agree with this plan, we would hope that Tuatara could be granted an extension or dispensation for the next 12 months to allow the business to continue to operate while we carry out the improvements.

Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairs Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent time: 08/18/2023 09:03:46 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

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Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 28, 2023 4:12 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

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From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 07/28/2023 04:11:47 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg Kapiti District Council Trade Waste Improvement Plan.pdf

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Tupu Gregorv, Brewerv Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

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Tuatara Brewery Trade Waste Improvement Plan

Introduction

Tuatara Brewery has worked with the Kāpiti Coast District Council water and wastewater team for several months to collect data on the brewery's wastewater discharge.

Since our meeting in June, we have developed a plan outlining the steps we will take over the next 12 months to improve our wastewater performance. If Council agrees with the actions in this plan, we respectfully ask that Tuatara is granted a dispensation from the Trade Waste Discharge Consent while we undertake improvements.

The draft trade waste consent conditions are estimated to add \$106,000 per year to Tuatara's costs. While we acknowledge and respect the Council's need to move to user-pays system for wastewater treatment, this will unfortunately have a negative effect on our business while we work to implement the changes required to meet the consent conditions.

Tuatara and DB are committed to the Kāpiti Coast community and collaborating with the Kāpiti Coast District Council.

Proposed Improvement Plan

#	Consent Condition	Consent Description	Action	Estimated Completion	Comments
1	Part 1-5	Event Notification	Update Tuatara Spill Response & Emergency Response	Complete	Chemical spill, SOP has been updated and communicated to staff, to notify KCDC and the Fire Service.
2	Part 1-8	Temperature < 40°C	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater >40.0°C
3	Part 1-9; Part 2-11b	pH control & monitoring	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater < 6.0pH or >10pH. pH correction controlled via PLC and dosing pumps & chemicals
4		WWTP pH probe calibration	Monthly pH probe calibrations	Complete	Underway with records available in request
5	Part 1-10	Dry solid matter- > 15mm	Solids control	Complete	All wastewater passes through 1 of 2 macerating pumps before discharge to council system
6	Part 2-2,3,7	Discharge flow rate, volume & hours	Cap discharge pump flow rate	Complete	Flowrate capped at 2.5m ³ /hr, totalling max 30m ³ between 4pm - 4am.
7	Part 2-5c	Wastewater flow meter verification	Calibrate wastewater flow meter	Complete	Certified 30/1/23 with biannual calibrations added to preventative maintenance schedule



8	Part 1-6; Part 2-5b	Wastewater flowmeter data availability	Install Council unit	Complete	Unit installed 04/23. Live online hourly flowmeter rate and volume data available to Council
9	Part 2-12	On-site storage tank	Increase wastewater storage capacity on site from current 15m ³	Complete 2/6/23	Tuatara has purchased and installed 44m ³ additional storage. The increased buffer volume is sufficient to store the seven-day average discharge volume of 28m ³ /day.
10	Part 2-6	Composite sampler	Procure and install composite sampler	Underway	Awaiting delivery ETA 1/8/23
11	Part 2-2,3	Additional buffer vessel	Procure and install additional storage tank	Underway	Source additional wastewater storage vessel(s) to buffer a 24hr peak event >45m ³
12	Part 2-8	Ongoing Monitoring	Monitoring of composite sampler results	Underway	Awaiting delivery of composite sampler, ETA 1/8/23
13	Part 2-4	Discharge Characteristics: COD <2500g/m ³ , BOD <1000g/m ³ , TN <5g/m ³ , TP <50g/m ³ , TSS <1000g/m ³	Divert yeast and hop material from fermentation away from wastewater.	Underway	A two-week intensive wastewater survey in March/April showed high levels of COD/BOD, TN, TSS, in addition to a large volume of wastewater, but consistent with discharge characteristics of similar sized craft breweries. Organic loading mostly arises from three waste streams: Spent grain, spent yeast and trub. At the time of the survey, spent grain had been collected and removed as stock feed. Where practical and possible (due to storage space, odour, haulage), spent yeast can be used as stock feed. To do this, Tuatara has engaged with Grainhub, a stock feed business, to remove yeast and hop slurry. A trial is currently underway to store all yeast collected in July in a holding vessel. Benchmarking shows organic loading can be reduced by 40%, and early sampling results show an 80% reduction in TSS and a 33% reduction in COD. To be confirmed with water sample and testing.



14	Part 2-13	Clean in Place (CIP)	Complete feasibility assessment to implement CIP kitchen	6-12 months	This action will examine shifting the brewery to a model to reduce single-use, one-way CIP methodology and chemicals lost to waste. This project would involve significant capital expenditure. We propose to scope and cost the project during the dispensation period examining external supplied and internal options and, subject to an investment decision and capital allocation, complete the project the following budget year.
15	Part 2-13	Solids removal	Investigate additional methods to reduce TSS	+12 months	Investigate the installation of additional storage and collection vessels to settle out TSS through coagulation or flocculation, aided by aluminium sulphate or polymers to assist to precipitate. This would depend on commercial and physical (site area and access) viability
16			Review HEINEKEN water Good Practices	3 to 6 months	Review HEINEKEN water Good Practices and develop implementation plan of appropriate initiatives.
17			Consult HEINEKEN global wastewater specialist	6-12 months	We expect to complete this once we have a baseline of performance established with changes already made (#1 to 4) and to explore other means of reducing concentrations. NOTE: As wastewater volume reduces, concentrations (e.g., BOD) will typically increase.
18			Checkpoint meetings	By agreement	Meet with Council to review progress on the plan. Frequency to be by mutual agreement.
19			Annual review	12 months	Perform a review in collaboration with Council in 12 months to agree next steps.

Background

Tuatara Brewery was established in 2001 and is a proud member of the Kāpiti community. Today we employ 22 full time staff and contribute significantly to the local economy. Tuatara is important to DB as the 'home of craft' and we are committed to continuing to brew in Kāpiti.



We use water throughout our supply chain, from growing crops to our finished product. Beer is 95% water, so it is a critical resource for our business. DB and Tuatara approach water resource protection by working to reduce water consumption in our production facilities using global best practices. Second, all wastewater discharged into the environment needs to be treated by a wastewater treatment before being discharged. In New Zealand, two DB production sites (one of which is Tuatara) rely on municipal treatment facilities and two involve onsite wastewater treatment.

In terms of committing to the above principles, DB has made a significant investment in a wastewater treatment plant at the DB Draught Brewery in Timaru to preserve local downstream catchment water quality. We expect this to be operational in late 2023.

Recent Water Saving Initiatives at Tuatara

In the last two years, we have implemented the following water saving measures at Tuatara:

1. Automated wort cooling process. Installed a second wort cooling heat exchanger to increase heat recovery capacity for reuse as process hot water.
2. Automated wort cooling process to limit potable water usage while maintaining heat recovery and reducing refrigeration loading.
3. Moved to an efficient production model with condensed operational days saving on startup/shutdown water loss between production runs.
4. Installed control valves on Tunnel pasteuriser water infeed to eliminate overfilling through compartments.
5. These, along with continual reviews, updating and retraining of SOPs has delivered water saving of 8.81hL/hL water:beer in 2021, to 7.52hL/hL in 2022 and currently tracking at 7.19hL/hL YTD 2023, which compares favourably to the Brewers' Association benchmarks.

DB Sustainability Objectives

As a signatory to the Climate Leaders Coalition, DB has bold sustainability targets set against ambitious timelines to ensure environmental, social, and responsible sustainability across all its operations. Our path to zero environmental impact is based on reaching net zero carbon, maximising circularity and environmental stewardship.

The DB water conservation and circularity programme is based on reducing the average water take across all our production sites, balancing 100% of consumed water volume by 2030 and treating all wastewater before returning it to the environment. We are looking forward to having our DB Draught wastewater treatment plant commissioned later this year as a major step in bringing this to life.

With respect to our carbon footprint DB is committed to gross emissions reductions as a priority. We have not bought any carbon offsets and consider them an option of last resort. In 2022 DB achieved 49.6% reduction in scope 1 and 2 carbon emissions vs 2018 baseline (verified by Toitu Enviromark) and is on track to reach our 50% interim target in 2025 and net zero by 2030.

Regards,



Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile:



1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/20/2023 03:12:57 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Afternoon Sean,

This is great news, thank you. We are already underway with various improvement measures, which if successful will see us take a step in the right direction.

Thanks and Ill be in contact with our long term improvement plan in July. Cheers, Tupu

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu,

Thanks for the update and an extension to your existing Trade Waste arrangement until we have had an opportunity to review your improvement plan and agree on a future course of action is agreed.

Cheers

Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, 11 June 2023 4:19 pm
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Sean,

Thank you for your time on Wednesday. Lauren and I believe it was a productive discussion on Tuatara Brewery and the role we play in the Kapiti community.

Tuatara Brewery plays an important role for DB as the 'home of craft', which has historically strong links to the Kapiti Coast. As such, DB is committed to the Kapiti Coast and working together with the Council.

In recent months, Tuatara has worked with the Council water and wastewater team to collect data on the brewery's wastewater discharge. As we continue to gather data, primarily production volume and correlating wastewater volume, and ultimately how waste can be mitigated, we respectfully request an extension to our existing Annual Trade Waste Discharge Consent.

As a clearer picture of our discharge develops, we will develop a plan outlining the steps we will take to meet the 2019 Kapiti Coast Bylaw conditions. We will share a 12-month improvement plan with clear goals and timelines with you before 31 July 2023. If you agree with this plan, we would hope that Tuatara could be granted an extension or dispensation for the next 12 months to allow the business to continue to operate while we carry out the improvements.

Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent time: 06/20/2023 09:03:43 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

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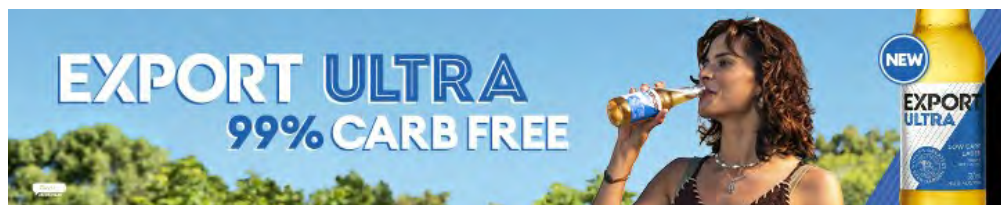
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Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/11/2023 04:18:44 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

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From: hayden dudek [REDACTED]
Sent time: 08/18/2023 10:45:11 AM
To: Grant Stuart <[REDACTED]>; Reuben Mackey [REDACTED]
Cc: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Discharge
Attachments: image001.jpg image002.jpg

Hi All

Just a heads up , [REDACTED]

On returning to work today I see we have had day time discharges .

On further investigation we found a blocked pipe to one of our storage vessels .

Block has being cleared and now looking at solutions such as a filter system to prevent this happening .

Any suggestions or questions, please give me a call.

Cheers.

Hayden Dudek

Tuatarā Maintenance Engineer

7 Sheffield Street, Paraparaumu 5032

021 832 865

TUATARA



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From: Ramesh Sharma </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D85D1C13DFC74B25@>
Sent time: 01/13/2023 03:47:53 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

Hi Tupu,

The following are current KCDC fees and charges.

[Trade waste consent fees - Kāpiti Coast District Council \(kapiticoast.govt.nz\)](https://www.kapiticoast.govt.nz)

Thanks

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Ramesh Sharma
Sent: Friday, 13 January 2023 1:52 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, 13 January 2023 12:55 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/16/2023 02:33:03 PM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image001.png

Hi Ramesh,

Just confirming that I have received these two emails and am working on collecting the information you have requested. I hope to have a response to you in the next few days.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent: Friday, 13 January 2023 3:48 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

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Thanks

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

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Mobile 027 4761 317

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Sent: Friday, 13 January 2023 1:52 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
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8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any

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Regards

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Kāpiti Coast District Council

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Mobile 027 4761 317

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/30/2023 03:09:27 PM
To: [REDACTED]
Cc: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Tuatara Wastewater Meter
Attachments: image001.jpg

Hi Aaron,
Thanks for travelling down and testing this for us, much appreciated.
Yes, if you could make the report out to myself and CC in Ramesh@Kapiti council.
The invoice can come through to me. PO – TUATG2000
Cheers, Tupu

From: [REDACTED]
Sent: Monday, 30 January 2023 2:40 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Tuatara Wastewater Meter

Hi Tupu,

We have been and tested the wastewater meter at the Tuatara Brewery in Paraparaumu. Hayden had it sorted for me and we got the test done, I just need to sort the report. Do you want to use yourself as the contact like the Mangatainoka report, do we make the invoice out to the same as last time?

Cheers

Aaron McCutcheon



9 Miller Street, Dannevirke

www.growater.co.nz



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Sent time: 01/30/2023 03:42:59 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; [REDACTED]
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>
Subject: RE: Tuatara Wastewater Meter
Attachments: image001.jpg

Hi Tupu,

Thanks for the update. It would be helpful, if you could comment about the meter attended by Aaron. Do you mean flow meter or pH?

We are processing your trade waste application, and DRAFT conditions will be with you soon.

Thanks

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

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Aaron McCutcheon



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/30/2023 04:03:10 PM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; [REDACTED]
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>
Subject: RE: Tuatara Wastewater Meter
Attachments: image001.jpg

Hi Ramesh,
This is for the discharge Krone magflow meter.
Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent: Monday, 30 January 2023 3:43 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; [REDACTED]
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>
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The invoice can come through to me. PO – TUATG2000
Cheers, Tupu

From: [REDACTED] <[REDACTED]>
Sent: Monday, 30 January 2023 2:40 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Tuatara Wastewater Meter

Hi Tupu,

We have been and tested the wastewater meter at the Tuatara Brewery in Paraparaumu. Hayden had it sorted for me and we got the test done, I just need to sort the report. Do you want to use yourself as the contact like the Mangatainoka report, do we make the invoice out to the same as last time?

Cheers

Aaron McCutcheon



9 Miller Street, Dannevirke

www.growater.co.nz



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Aaron McCutcheon



9 Miller Street, Dannevirke

www.growater.co.nz



From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent time: 01/31/2023 09:57:34 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Grant Stuart <[REDACTED]>; Kim Mazur <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image001.png

Good morning Tupu,

This is good progress from your end; the team is processing your consent and will update you with draft conditions. Our laboratory and treatment plant staff are assisting Ramesh Pillai, who is processing your application.

Thanks, and regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, 31 January 2023 8:00 am
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: My contact details below, Regards, Tupu

Morning Ramesh,

In addition to the verification on the wastewater flow meter, we have replaced and calibrated a new pH probe. Information attached. Calibrations have been added to the monthly laboratory maintenance schedule, and we have also ordered pH-10 buffer to increase the accuracy of the probe slope.

Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 20 January 2023 3:15 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Ramesh.Pillai@kapiticoast.govt.nz; [REDACTED]; [REDACTED]
[REDACTED]

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Apologies for the delay as I was awaiting some responses from external suppliers. Please find below the information you requested, along with our findings, pending actions, and any data relating to the waste water at 7 Sheffield St.

- Please find attached the completed "Application for Consent to Discharge Trade Waste" form to cover the period from 1 July 2023.
- All plant maintenance is completed inhouse by the site Maintenance engineer. This includes daily inspection, daily fault monitoring, and breakdown attendance if/when required. A review of the instrument servicing has been completed, with four immediate actions. 1) As per SOP, Calibrate pH probe immediately and on an ongoing monthly basis. 2) Purchase a spare pH probe (part 8203-PG13-GLAA-HL-A-A9-M-000/00-M) in the event that "Burkert pH probe (When the Multicell pH transmitter shows pH Sensor "Out of Range") replace" as per SOP. 3) calibrate, verify and certify the discharge magflow meter is accurate to with +/-5% as per National regulation requirements (Due 26/10/23, current Calibration certificate attached, Ref KROHNE). 4) add discharge magflow meter to a 5 year maintenance and calibration schedule.
- There are no recent waste water sample analysis available or historical discharge volumes. An enquiry has been made to Apex to quote on the install of a USI Hydrocell wastewater sampler. It has also become apparent that the site may require additional storage to increase the buffer. Again, we have approached Apex to quote on supplying a similar vessel to the existing unit.
- The response from Apex is that no historical flow meter data (or other) is available beyond the daily volume totaliser records which covers Day 0 to Day -7. I have included a photo of the totaliser data from 13/01/23 (IMG_1294). This will be remedied should a data logger be integrated into the system, a supply request has been sent. In the interim, we will begin capturing and recording the 7day data each week.
- Emergency or contingency plan for waste management/discharges (include any historical events register). To my knowledge, out side of the emergency spill plan, there is no waste management plan for this site. We will be reviewing

this asap, with a view to develop and implement in good time.

- Referencing Trade waste discharge consent TW0471, the forementioned 'separator' relates to a grease trap design. As the Tuatara Tap room does not regularly operate a deep frier, hot plate, or other grease and oil equipment, there has not been a grease trap or separator fitted to the waste water system. It is presumed that this condition was added in the event that the kitchen menu extended to such items.
- Please find attached a copy of the site plan (Updated Haz Tua site plan 20220714) hazard chemical inventory (TUA Chemical Inventory) and response procedure (Tuatara Emergency Procedure – Chemical Spill & TUA Spill Response 20220721) which form the hazardous spill management plan. Action: update the response plan to include an action to isolate the WWTP discharge to prevent contaminants from entering the waste water stream.
- Your Waste management plan. Alongside the Emergency waste management plan, we will develop the waste management plan.
- Please find attached the Water saving plan for Tuatara (Copy of EW planning v02), which indicates the best practice and improvement projects executed or planned for 2022/23. Also attached are several related best practice guides (W05 Hot water tanks overflow recovery, and, W02 Backwash Water Recovery) which have been implemented.

I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: [REDACTED]
Sent time: 01/31/2023 01:42:41 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Tuatara Wastewater Meter
Attachments: image001.jpg VRC-GW-2.93 Water Meter Verification Report -50mm Rig.pdf

Hi Guys,

Attached is the copy of the report for the wastewater meter we tested. Any questions let me know.

Cheers
Aaron

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 30 January 2023 3:09 pm
To: [REDACTED]
Cc: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Tuatara Wastewater Meter

Hi Aaron,
Thanks for travelling down and testing this for us, much appreciated.
Yes, if you could make the report out to myself and CC in Ramesh@Kapiti council.
The invoice can come through to me. PO – TUATG2000
Cheers, Tupu

From: [REDACTED] <[REDACTED]>
Sent: Monday, 30 January 2023 2:40 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Tuatara Wastewater Meter

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Cheers

Aaron McCutcheon



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WATER METER VERIFICATION REPORT: COMPARATOR METER

VRC-GW-2.93

Consent Holder Details			
Consent Holder:	Tuatara Brewery		
Contact:	Tupu Gregory	Consent number:	TW0471
Address:	9 Sheffield Street, Paraparaumu		
Phone:		Bore No:	Wastewater
Mobile:		Email:	Tupu.Gregory@tuatarabrewing.co.nz

Client Water Meter					
Make	Krohne		Model	Optiflux 2100	
Size (mm)	50		Serial No	S18312200	
GPS Latitude	-40.905437		GPS Longitude	175.00096	
Is the Installation tamper proof?	<input type="checkbox"/> Yes	List Tamper seals			
	<input checked="" type="checkbox"/> No	Comments			
Pulse Output	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	Pulses per m3		
Meter Reading	On arrival	49959.1	Meter Reading	On leaving	49962.47
	Time	9:30		Time	10:30

Pipe Installation			
Distance of straight unobstructed pipe in relation to the flow meter: (mm)			
Upstream	270	Downstream	300
Off takes prior to the water meter?	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No	(If Yes then provide comment on use)
Comment			



Verification Method: Comparator Meter in Flow Rig			
Equipment Used	50mm Krohne Flow Rig		
Reference Meter	Krohne Optiflux 2000f	Serial number	S19301283
Date of Certificate	31/10/2022	Operator	Aaron McCutcheon

Verification Results

Input Measurements		Run				
		1	2	3	4	5
Duration	(sec)	529	581	610		
Test Meter Volume (V_{test})	(m^3)	0.880	0.910	1.020		
Reference Volume (V_{ref})	(m^3)	0.846	0.871	0.976		
Calculations						
Flow rate for test (Q_{ref})	(m^3/s)	0.0016	0.0015	0.0016		
Meter Comparison ($(V_{\text{test}} - V_{\text{ref}}) / V_{\text{ref}}$)	(%)	4.02%	4.48%	4.51%		
Uncertainty Calculation						
Expanded Uncertainty	(m^3)	0.0082	0.0083	0.0088		
% of Reference Volume	(%)	0.97%	0.95%	0.90%		
Test Error (<1%)		OK	OK	OK		
Test - Uncertainty (<5%)	(%)	3.05%	3.53%	3.61%		
Meter Conformance		PASS	PASS	PASS		
Comments						

Meter Validation Result			PASS
Name:	Aaron McCutcheon	Signature	
Position:	Water Meter Verifier		
Issue Date:	30/01/2023		

I/we declare that a verification of the water measuring device as required by the Resource Management (Measurement and Reporting of Water Takes) Regulations 2010 has been carried out and proven to be compliant with the Regulations. This verification test has proven the installation to be accurate to within $\pm 5\%$.

This certificate is valid for 5 years from the date of issue and is subject to on-going surveillance.

It is the requirement of this certificate that you inform the Consenting Authority of any adjustment/modification to the measuring device OR of its installation.

Aaron McCutcheon



9 Miller Street, Dannevirke

www.growater.co.nz



From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 02/09/2023 11:20:43 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart
Cc: <[REDACTED]>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
<[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

Hi Tupu

Ramesh S is away on leave, and I am now progressing this job of getting a Trade Waste Consent for you.
I wonder if you could let us know your availability for a meeting at your place or in a meeting room at Council.

I am looking for your availability on next Wednesday or Thursday.

Please advise the time and venue for the meeting.

Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, 20 January 2023 3:15 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey
<[REDACTED]> Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

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- Please find attached the completed "Application for Consent to Discharge Trade Waste" form to cover the period from 1 July 2023.
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From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

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8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/09/2023 02:43:18 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart
Cc: <[REDACTED]>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
<[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image001.png

Hi Ramesh,

Happy to accommodate you Wednesday 16th and any time from 2pm onwards.

Would you please inform me of who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.

Thank you, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Thursday, 9 February 2023 11:21 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
<[REDACTED]>
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Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

www.kapiticoast.govt.nz

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From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

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Regards

Ramesh Sharma

Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

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Sent: Friday, 13 January 2023 12:55 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 02/09/2023 04:59:43 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart
Cc: <[REDACTED]>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
<[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

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Please let me know.

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Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

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Sent: Thursday, 9 February 2023 2:43 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
<[REDACTED]>
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Sent time: 02/13/2023 11:23:28 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart
Cc: <[REDACTED]>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt
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Attachments: image001.png

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Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

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Mobile: [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/13/2023 11:44:47 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

Hi Ramesh,

I should also add that I am away from the 20th Feb through to the 10th March.

Thanks, Tupu

From: Tupu Gregory
Sent: Monday, 13 February 2023 11:23 am
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
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Hi Ramesh,

Happy to accommodate you Wednesday 16th and any time from 2pm onwards.

Would you please inform me of who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.

Thank you, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Thursday, 9 February 2023 11:21 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt

Subject: RE: My contact details below, Regards, Tupu

Hi Tupu

Ramesh S is away on leave, and I am now progressing this job of getting a Trade Waste Consent for you. I wonder if you could let us know your availability for a meeting at your place or in a meeting room at Council.

I am looking for your availability on next Wednesday or Thursday.

Please advise the time and venue for the meeting.

Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 20 January 2023 3:15 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey

<[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Apologies for the delay as I was awaiting some responses from external suppliers. Please find below the information you requested, along with our findings, pending actions, and any data relating to the waste water at 7 Sheffield St.

- Please find attached the completed “Application for Consent to Discharge Trade Waste” form to cover the period from 1 July 2023.
- All plant maintenance is completed inhouse by the site Maintenance engineer. This includes daily inspection, daily fault monitoring, and breakdown attendance if/when required. A review of the instrument servicing has been completed, with four immediate actions. 1) As per SOP, Calibrate pH probe immediately and on an ongoing monthly basis. 2) Purchase a spare pH probe (part 8203-PG13-GLAA-HL-A-A9-M-000/00-M) in the event that “Burkert pH probe (When the Multicell pH transmitter shows pH Sensor “Out of Range”) replace” as per SOP. 3) calibrate, verify and certify the discharge magflow meter is accurate to with +/-5% as per National regulation requirements (Due 26/10/23, current Calibration certificate attached, Ref KROHNE). 4) add discharge magflow meter to a 5 year maintenance and calibration schedule.
- There are no recent waste water sample analysis available or historical discharge volumes. An enquiry has been made to Apex to quote on the install of a USI Hydrocell wastewater sampler. It has also become apparent that the site may require additional storage to increase the buffer. Again, we have approached Apex to quote on supplying a similar vessel to the existing unit.
- The response from Apex is that no historical flow meter data (or other) is available beyond the daily volume totaliser records which covers Day 0 to Day -7. I have included a photo of the totaliser data from 13/01/23 (IMG_1294). This will be remedied should a data logger be integrated into the system, a supply request has been sent. In the interim, we will begin capturing and recording the 7day data each week.
- Emergency or contingency plan for waste management/discharges (include any historical events register). To my knowledge, out side of the emergency spill plan, there is no waste management plan for this site. We will be reviewing this asap, with a view to develop and implement in good time.
- Referencing Trade waste discharge consent TW0471, the forementioned ‘separator’ relates to a grease trap design. As the Tuatara Tap room does not regularly operate a deep frier, hot plate, or other grease and oil equipment, there has not been a grease trap or separator fitted to the waste water system. It is presumed that this condition was added in the event that the kitchen menu extended to such items.
- Please find attached a copy of the site plan (Updated Haz Tua site plan 20220714) hazard chemical inventory (TUA Chemical Inventory) and response procedure (Tuatara Emergency Procedure – Chemical Spill & TUA Spill Response 20220721) which form the hazardous spill management plan. Action: update the response plan to include an action to isolate the WWTP discharge to prevent contaminants from entering the waste water stream.
- Your Waste management plan. Alongside the Emergency waste management plan, we will develop the waste management plan.

- Please find attached the Water saving plan for Tuatara (Copy of EW planning v02), which indicates the best practice and improvement projects executed or planned for 2022/23. Also attached are several related best practice guides (W05 Hot water tanks overflow recovery, and, W02 Backwash Water Recovery) which have been implemented.

I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/13/2023 01:59:50 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: My contact details below, Regards, Tupu

Hi,
Teams is fine, I was just checking.
Thanks, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Monday, 13 February 2023 1:18 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: My contact details below, Regards, Tupu

Hi Tupu
Should you want us to come over, we can do so, else we can discuss over Team Meeting as I thought it would be convenient for all.
Please let me know
Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

www.kapiticoast.govt.nz

-----Original Appointment-----

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 13 February 2023 1:13 pm
To: Ramesh Pillai
Subject: Accepted: My contact details below, Regards, Tupu
When: Wednesday, 15 February 2023 10:30 am-12:30 pm (UTC+12:00) Auckland, Wellington.
Where: Microsoft Teams Meeting

Hi Ramesh,
Just confirming that this is a Teams meeting, and not at the council or Tuatara? Thanks, Tupu

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From: Ben Thompson <[REDACTED]>
Sent time: 02/15/2023 11:32:40 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

Hi Tupu,

Would you be comfortable for our electrical engineer and water engineer to come check your wastewater meter to see if possible to connect to our lora network?

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, February 13, 2023 11:23 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,
I will await for you to propose some suitable times.
Would you also who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.
Thanks, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Thursday, 9 February 2023 5:00 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Tupu
My calendar is booked from 2pm to 4.30 pm on 15th & 16th Feb.
I wonder if I can send a meeting request checking the availability of our staff on 15th or 16th Feb, then it would be great if you could fit into that spot.
Please let me know.
Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 9 February 2023 2:43 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Happy to accommodate you Wednesday 16th and any time from 2pm onwards.

Would you please inform me of who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.

Thank you, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Sent: Thursday, 9 February 2023 11:21 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Hi Tupu

Ramesh S is away on leave, and I am now progressing this job of getting a Trade Waste Consent for you. I wonder if you could let us know your availability for a meeting at your place or in a meeting room at Council.

I am looking for your availability on next Wednesday or Thursday.

Please advise the time and venue for the meeting.

Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council

Tel 04 2964 731

Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 20 January 2023 3:15 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Apologies for the delay as I was awaiting some responses from external suppliers. Please find below the information you requested, along with our findings, pending actions, and any data relating to the waste water at 7 Sheffield St.

- Please find attached the completed “Application for Consent to Discharge Trade Waste” form to cover the period from 1 July 2023.
- All plant maintenance is completed inhouse by the site Maintenance engineer. This includes daily inspection, daily fault monitoring, and breakdown attendance if/when required. A review of the instrument servicing has been completed, with four immediate actions. 1) As per SOP, Calibrate pH probe immediately and on an ongoing monthly basis. 2) Purchase a spare pH probe (part 8203-PG13-GLAA-HL-A-A9-M-000/00-M) in the event that “Burkert pH probe (When the Multicell pH transmitter shows pH Sensor “Out of Range”) replace” as per SOP. 3) calibrate, verify and certify the discharge magflow meter is accurate to with +/-5% as per National regulation requirements (Due 26/10/23, current Calibration certificate attached, Ref KROHNE). 4) add discharge magflow meter to a 5 year maintenance and calibration schedule.
- There are no recent waste water sample analysis available or historical discharge volumes. An enquiry has been made to Apex to quote on the install of a USI Hydrocell wastewater sampler. It has also become apparent that the site may require additional storage to increase the buffer. Again, we have approached Apex to quote on supplying a similar vessel to the existing unit.
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- Emergency or contingency plan for waste management/discharges (include any historical events register). To my knowledge, out side of the emergency spill plan, there is no waste management plan for this site. We will be reviewing this asap, with a view to develop and implement in good time.

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- Please find attached a copy of the site plan (Updated Haz Tua site plan 20220714) hazard chemical inventory (TUA Chemical Inventory) and response procedure (Tuatara Emergency Procedure – Chemical Spill & TUA Spill Response 20220721) which form the hazardous spill management plan. Action: update the response plan to include an action to isolate the WWTP discharge to prevent contaminants from entering the waste water stream.
- Your Waste management plan. Alongside the Emergency waste management plan, we will develop the waste management plan.
- Please find attached the Water saving plan for Tuatara (Copy of EW planning v02), which indicates the best practice and improvement projects executed or planned for 2022/23. Also attached are several related best practice guides (W05 Hot water tanks overflow recovery, and, W02 Backwash Water Recovery) which have been implemented.

I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/16/2023 03:27:52 PM
To: Tom Wilson <[REDACTED]>
Subject: RE: Our electrical engineer will pop around tomorrow to look at your wastewater meter

Hi, 10am is good. Cheers, Tupu

From: Tom Wilson <[REDACTED]>
Sent: Thursday, 16 February 2023 1:23 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Re: Our electrical engineer will pop around tomorrow to look at your wastewater meter

Thanks Tupu.

Will aim to be there at 10am but let me know if there's a better time.

My number is [REDACTED]

See you tomorrow.

Cheers,
Tom

Get [Outlook for Android](#)

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 16 February 2023, 1:16 pm
To: Ben Thompson <[REDACTED]> Tom Wilson <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: Our electrical engineer will pop around tomorrow to look at your wastewater meter

Hi,
We will see you tomorrow then Tom. I am on site from 7am until 4pm, feel free to call in whenever suits.
Thanks, Tupu

From: Ben Thompson <[REDACTED]>
Sent: Thursday, 16 February 2023 12:49 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Tom Wilson <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: Our electrical engineer will pop around tomorrow to look at your wastewater meter

Hi Tupu,

Our Electrical Engineer, Tom Wilson, will pop around tomorrow to look at the meter and see what is needed to connect to our lora network.

We are also looking at how we can set you up in our data system so you can access to the data (realtime through to longer time sequences)

Tom, Tupu's number is [REDACTED]. I'll leave it with you to arrange a time.

Ben Thompson
Water Services Coordinator
Te Kaititui Ratonga Wai

[REDACTED]
[REDACTED]



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 02/15/2023 12:59:31 PM
To: Ben Thompson <[REDACTED]>
Cc: Tom Wilson <[REDACTED]>; Nick Ulrich <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png

Hi All,

I am available all day Friday, so feel free to call in on your own availability. Cheers, Tupu

From: Ben Thompson <[REDACTED]>
Sent: Wednesday, 15 February 2023 11:41 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Tom Wilson <[REDACTED]> Nick Ulrich <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Friday looks good Tupu – any time that works for you on Friday?

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, February 13, 2023 11:23 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,
I will await for you to propose some suitable times.
Would you also who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.
Thanks, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Thursday, 9 February 2023 5:00 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu

Hi Tupu

My calendar is booked from 2pm to 4.30 pm on 15th & 16th Feb.

I wonder if I can send a meeting request checking the availability of our staff on 15th or 16th Feb, then it would be great if you could fit into that spot.

Please let me know.

Thanks

Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council

Tel 04 2964 731

Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, 9 February 2023 2:43 pm

To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Happy to accommodate you Wednesday 16th and any time from 2pm onwards.

Would you please inform me of who will be attending, and the agenda and specifics of the discussion points so that I can prepare in advance.

Thank you, Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Sent: Thursday, 9 February 2023 11:21 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>

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Hi Tupu

Ramesh S is away on leave, and I am now progressing this job of getting a Trade Waste Consent for you.

I wonder if you could let us know your availability for a meeting at your place or in a meeting room at Council.

I am looking for your availability on next Wednesday or Thursday.

Please advise the time and venue for the meeting.

Thanks

Ramesh Pillai

Senior Asset Planning Engineer

Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council

Tel 04 2964 731

Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 20 January 2023 3:15 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Apologies for the delay as I was awaiting some responses from external suppliers. Please find below the information you requested, along with our findings, pending actions, and any data relating to the waste water at 7 Sheffield St.

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- Please find attached a copy of the site plan (Updated Haz Tua site plan 20220714) hazard chemical inventory (TUA Chemical Inventory) and response procedure (Tuatara Emergency Procedure – Chemical Spill & TUA Spill Response 20220721) which form the hazardous spill management plan. Action: update the response plan to include an action to isolate the WWTP discharge to prevent contaminants from entering the waste water stream.
- Your Waste management plan. Alongside the Emergency waste management plan, we will develop the waste management plan.
- Please find attached the Water saving plan for Tuatara (Copy of EW planning v02), which indicates the best practice and improvement projects executed or planned for 2022/23. Also attached are several related best practice guides (W05 Hot water tanks overflow recovery, and, W02 Backwash Water Recovery) which have been implemented.

I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma
 Water & Wastewater Services Manager
 Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

From: Tupu Gregory <Tupu.Gregory@tuarabrewing.co.nz>
Sent: Friday, 13 January 2023 12:55 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 03/24/2023 03:21:40 PM
To: Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear
Attachments: image001.png image002.png

Brilliant, thanks for following up. I am happy to go ahead with the install with the below costings.
Thanks, Tupu

From: Grant Stuart <[REDACTED]>
Sent: Friday, 24 March 2023 1:08 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear

Hi Tupu

If you email below is costing for on line gear.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Tom Wilson <[REDACTED]>
Sent: Friday, 24 March 2023 9:21 AM
To: Grant Stuart <[REDACTED]>
Subject: RE: tuatara brewery on line gear

Hi Grant,

This is the breakdown of install of the Tuatara Brewery wastewater outflow Lora pulse unit and transmitter.

Hardware costs:
Lora transmitter and pulse unit \$170.00
External antenna with mounting bracket \$60.00
24VDC relay for splitting pulse between devices \$20.00
Wire, labels \$2.00

Install and testing
2.5 hours labour at \$84ish/hour

Mount antenna externally above cabinet using existing gland holes at base of cabinet to bring cable through. Mount lora unit in cabinet and connect antenna.

Currently pulse from flowmeter is going straight to PLC digital input. I will place an interfacing relay coil in parallel with the input and use the NO contact to duplicate the pulse to the Lora unit.

Testing will involve taking a manual read of flowmeter totaliser, watch a few pulses to make sure interfacing relay is working, log onto Watermetrics portal to see pulses are getting through. Visit a few days later, read flowmeter totaliser again and make sure the reading on watermetrics portal is same as difference between two totaliser readings.

Install will be pretty quick, functional testing will take longer than the install.

We already have the hardware on hand. Please let us know if you would like us to proceed with the install, Otherwise we are happy to pass the hardware onto a contractor of your choice. The challenge is I don't know any contractors locally who would know how to do this.

Thanks,

Tom

Tom Wilson

Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

-

From: Grant Stuart <[REDACTED]>
Sent: Thursday, March 23, 2023 2:12 PM
To: Tom Wilson <[REDACTED]>
Subject: tuatara brewery on line gear

Hi tom

Can I have a run down on what you are going to install.

You went and had a look with ben can you put a price together for install.

Cheers grant

Grant Stuart

Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

[REDACTED]
Mobile [REDACTED]



www.kapiticoast.govt.nz



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From: Grant Stuart <[REDACTED]>
Sent time: 03/23/2023 02:29:13 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: My contact details below, Regards, Tupu
Attachments: HazSure-Brochure.pdf 20034 CFS CHEMFEED ChemTank Single-Skin Brochure - web.pdf image001.png

Hi Tupu

Here is two company's that can supply tanks.

I have worked with Chemfeed before and are a great company.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 13 February 2023 11:23 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
<[REDACTED]> Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Tess Drewitt <[REDACTED]>
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Hi Ramesh,
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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Thursday, 9 February 2023 5:00 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>
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Ramesh Pillai
Senior Asset Planning Engineer
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council

Tel 04 2964 731

Mobile 027 5554 870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 9 February 2023 2:43 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

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Senior Asset Planning Engineer

Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council

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Mobile 027 5554 870

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 20 January 2023 3:15 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey

<[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

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I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Sent: Friday, 13 January 2023 1:52 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]>

Subject: RE: My contact details below, Regards, Tupu

Importance: High

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We will require the following information from you to process the Trade waste consent.

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9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

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ChemTanks are used extensively by Water Utilities, Food & beverage, Dairy and Commercial Pool Industries.



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- ▶ All tanks are designed with seismic restraints suitable for the different seismic loading zones in New Zealand
- ▶ Tank working capacities up to 25,000L
- ▶ Separate HDPE bunds available and designed for a volume of 110% of the Chemical Tank Capacity
- ▶ Suitable for long term storage of most Class 5, 6, 8 and 9 Hazardous Substances
- ▶ Inlet, outlet, overflow, vent, level sensor port and access hatch included as standard on the ChemTank range
- ▶ Highly customisable
- ▶ Can be supplied complete with level ultrasonic/radar, high and low level switches and bund alarms
- ▶ PVC/FRP Chemical Tanks built to AS2364 also available



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Custom Safety that Lasts.

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Why APD?

APD Ltd is the market leader in innovative plastic design, specialising in polymer fabrication, welding and rotational moulding of products for the New Zealand and Australian markets.

APD is only one of two companies in New Zealand that are approved to fabricate polymer Chemical Storage Tanks to the Health & Safety at Work Hazardous Substance regulation 2017. APD is a New Zealand owned company that has been providing solutions in plastics for over 35 years. APD has its own in-house design team so this enables us to take your requirements from concept through to a finished product, delivered to your site no matter where you are. Make finding your tank requirements easy, by making use of APD's helpful technical support team. By asking about your specific needs, we'll find a solution that's perfect for you.

QUALITY

APD prides itself on using the latest technology in welding equipment, allowing us to weld our products in accordance with the DVS series of standards for plastic fabrication and our above ground tanks are all designed in accordance with the standards EN1778 and BS EN12573.

One of our sheet butt welders is the largest in New Zealand and we are able to weld sheets up to 50mm thick and 4m long, allowing us to build tanks up to 100,000L with ease.

All of our fabricators either hold certificates in hot air welding and extrusion welding, or are currently completing their certificates. Yearly welding testing is conducted to confirm their competence.

We understand that off-the-shelf products do not suit all business needs. Our extensive product range is complemented by our engineering and design expertise, meaning we offer commercial and domestic solutions for any type or size of storage problem.

SOME OF OUR PRODUCT RANGE INCLUDES:

HazSure® Chemical Storage Tanks

HazSure® IBC Bunds

StormLite® & StormLite³® Underground Water Retention/Detention Systems

Rainworx® Rain Harvesting Systems

HazSure® Open Top Process Tanks

WasteWorx® Pumping Stations

Boat and RV Tanks

HVAC Ducting suitable for chemical applications and council swimming pool environments

Piping Systems for chemical, water and waste water plants

Please refer to our website www.apd.co.nz where you can view our latest products.

Chemical Storage Solutions

WHEN YOU FIRST SEE AN APD HAZSURE® TANK, YOU CAN TELL STRAIGHT AWAY JUST HOW DURABLE THEY ARE.

Pass the chemical storage test: For custom safety that lasts, call APD on (09) 263 7741.

The New Zealand Health & Safety at Work Hazardous Substances regulations 2017 for storing chemicals are very strict, and HazSure® tanks more than cover these requirements in their IBC bunds, storage tanks, and process tanks. Because they are fully customised, you'll get exactly what you need, plus entire systems including ladders, cages, heaters, and insulation.

SPECIFICATIONS

HazSure® tanks are compliant with New Zealand Health & Safety at Work Hazardous Substances regulations 2017 and Australian requirements, and are designed and built in accordance with the Thermoplastic Stationary Tanks Safe Work Instrument (SWI) 2017.

All HazSure® tanks have a 25 year design life, which is 15 years longer than similar rotationally moulded tanks. They are also suitable for long term storage of most Class 5, 6, 8 and 9 Hazardous Substances – most acids, caustics, cleaners etc.

Hazsure® tanks are HSNO test certified and a complete documentation set is provided with each tank ready to provide to your Test Certifier.

APD tanks are very competitively priced when compared with stainless steel, GRP and even mild steel tanks with tank working volumes (capacity) up to 100,000 Litres*. HazSure® tanks, including all their fittings, fasteners and seismic restraints, are made from non-corroding plastics, ensuring a long-term maintenance free life.

All Hazardous Substance Storage Tanks need to be located in a bunded area. APD designs and builds HSNO compliant bunds to suit all of our plain tanks, including rain covers to prevent water from filling up the bund. This is especially important for chemicals that react when exposed to water. Our bunds have the following advantages;

- All that is required is a flat concrete surface to fix the tank and bund onto. The tank and bund can then be installed in a matter of hours, no waiting for expensive site works and coatings.
- HazSure® bunds all have a design life of 25 years and are suitable for most class 5, 6, 8 and 9 liquids
- HazSure® bunds can be easily relocated to a new site at a later date if required
- HazSure® bunds are very cost effective in comparison to the major site works required in constructing conventional concrete block bunding and the various coatings required to provide protection
- All bunds are fitted with a chemically resistant valve with locking handle

HazSure® Plain Tanks

500L TO 100,000L* CAPACITY

Safely store hazardous substances on site in plain tanks up to 60,000L. Larger volumes are possible up to 100,000L depending on storage requirements.

*Hazardous materials up to 60,000L, up to 100,000L for non-hazardous materials only.

25 YEAR DESIGN LIFE

HazSure® chemical tanks are designed for a 25 year life, are EPA approved and HSNO test-certifiable for almost all class 5, 6, 8 and 9 chemicals.

INTELLIGENT, SOPHISTICATED DESIGN

Our designs allow quick, straight forward installation of the tank, reducing cost and the need for multiple contractors. What's more, the tank may be easily moved to cater for future needs!

SUPPLIED COMPLETE

All HazSure® tanks are supplied complete with inlet and outlet fittings, level indicator, vent, overflow and seismic restraints.

HazSure® chemical tanks can also be supplied with a range of specialised fittings such as mixers, baffles, hand rails, caged ladders, tank heaters, splash shields and solids loading.

Look at page 13 for safety and mixing accessories.

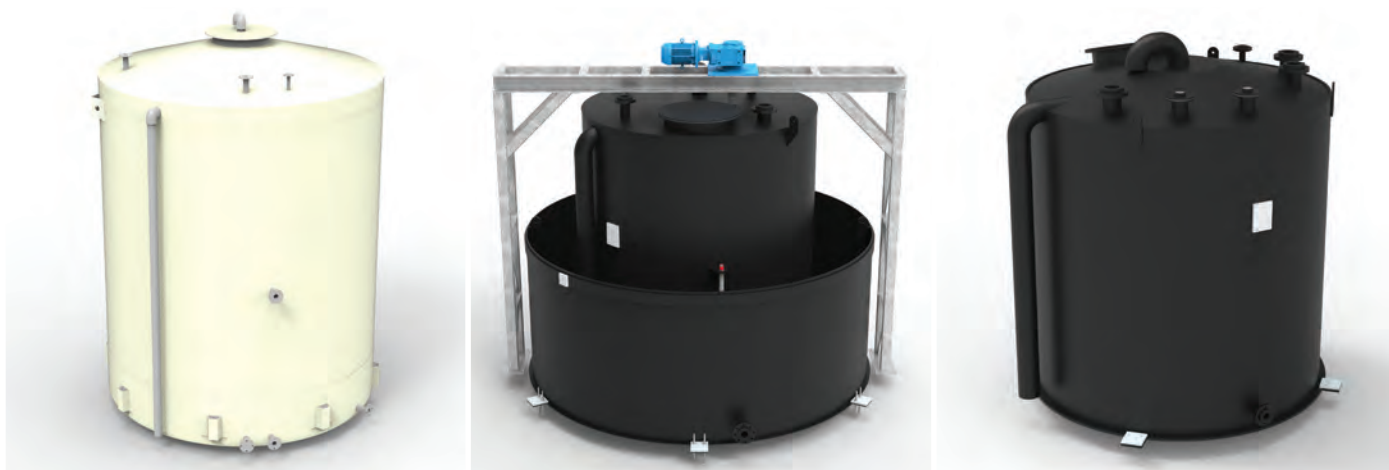
WHEN SPACE ISN'T THE ISSUE AND YOU NEED FLEXIBILITY: THE PLAIN TANK AND APD BUND SOLUTION

When you choose a plain tank (pictured) we can create a separate bund to be installed with it. You achieve the benefits of a self-bunded tank without sacrificing outlet and drain locations, or high-volume size choices. All of this with the convenience of getting everything from one source.

We can also include a rain cover with APD bunds.

INDIVIDUAL DESIGN

HazSure® chemical tanks are individually designed and built to suit your application and site and are suitable for both storage and process applications including mixing, blending, dilution and elevated temperature operation.



HazSure® Self Bunded Tanks

LOOKING FOR THE FULL PACKAGE?

HazSure® self-bunded chemical tanks provide approx. 50% space saving compared to traditional tanks and bunds.

HazSure® self-bunded chemical tanks provide a weather-proof bund and tank in one package to eliminate the need for daily checks and ensuring water and chemicals do not mix.

500L TO 20,000L CAPACITY

Safely store hazardous substances on site in HazSure® self-bunded tanks from 500L to 20,000L.

25 YEAR DESIGN LIFE

HazSure® chemical tanks are designed for a 25 year life, are EPA approved and HSNO test-certifiable for almost all class 5, 6, 8 and 9 chemicals.

DOUBLE WALL DESIGN

HazSure® self-bunded chemical tanks provide a weather-proof bund and tank in one package to eliminate the need for daily checks and ensuring water and chemicals do not mix.

SUPPLIED COMPLETE

All HazSure® tanks are supplied complete with inlet and outlet fittings, level indicator, vent, overflow and seismic restraints.

HazSure® chemical tanks can also be supplied with a range of specialised fittings such as mixers, baffles, hand rails, caged ladders, tank heaters, splash shields and solids loading.

Look at page 13 for safety and mixing accessories.

SPACE SAVING

HazSure® self-bunded chemical tanks provide approximately 50% space saving compared to traditional tanks and bunds.

QUICK AND EASY INSTALLATION

Our designs allow quick, straightforward installation of the tank which reduces cost and the need for multiple contractors.

The tank can be easily moved to cater for future needs.

INDIVIDUAL DESIGN

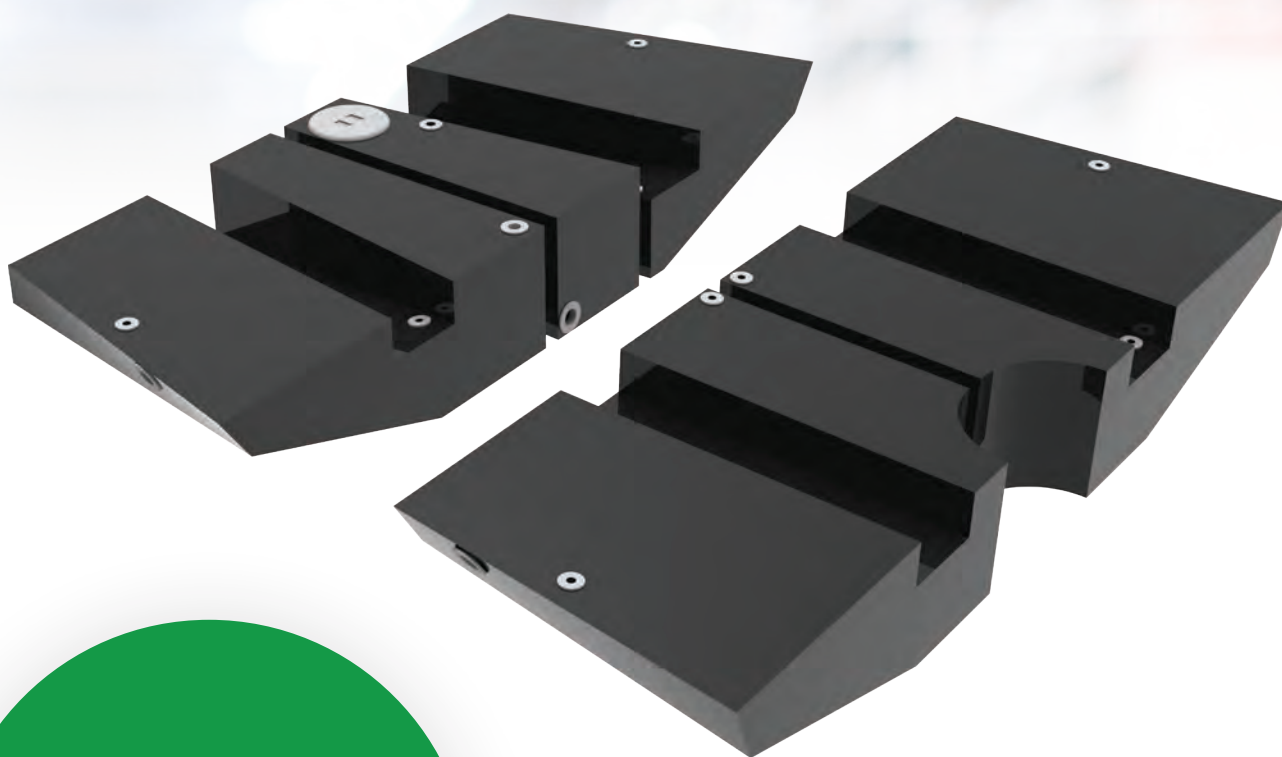
HazSure® chemical tanks are individually designed and built to suit your application and site and are suitable for both storage and process applications including mixing, blending, dilution and elevated temperature operation.



For more information call (09) 263 7741

www.apd.co.nz

HazSure® Custom Tank or Process Solutions



**CUSTOM
DESIGN TO SUIT
YOUR NEEDS**

We regularly have clients who need to have a durable product that will last and provide them with a solution that meets their every need.

Sick of having to continually replace equipment that isn't exactly designed or built to their particular requirements, our clients turn to APD's specific engineering and design team to provide solutions.



HazSure® Process Tanks

OUR PP, PVC AND PE OPEN TOPPED RECTANGULAR TANKS ARE PREFERRED BY MANY IN THE METAL FINISHING INDUSTRY.

The majority of our Process Tanks consist of a solid Polypropylene or Polyethylene shell reinforced with steel. This construction is suitable for almost all metal finishing Process Tanks. Designed and constructed to the DVS 2205 and BS EN 12573 Engineering Standards, these tanks offer many years of trouble-free operation. Tanks can be built to any height, width, or depth to suit your needs.

LONG AND VERSATILE LIFE

Our tank liners are the best value rigid drop-in PP, PE or PVC. The Liners are butt and extrusion welded to form a rigid liner that fits snugly into the steel tank, protecting it from corrosion. Liners are often used to extend the life of older tanks, which would otherwise need to be replaced.

SAFE AND CERTIFIED

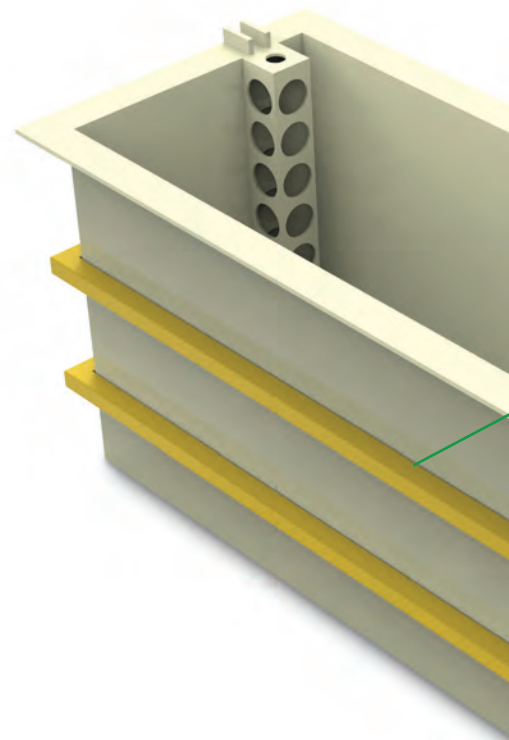
The simplest way to keep your workforce safe is to buy quality products that are going to last and not split or crack. The materials used for our tanks are resistant to most acids and alkali's, are tough and strong, and can be used for temperatures up to 70 degrees. HSNO requires all tanks over 5,000L to have a location test certificate. All of our tanks come with a design document pack to help get you ready.

ADAPTABLE DESIGN

Because we build every tank to order, you get the most from your process tank by only ordering what you need. We build any size of tank and construct it out of the best materials to suit the work you are planning to use it for. We offer a variety of options including covering the steel reinforcing to prevent corrosion, or adding insulation to prevent heat loss. The best part? We do all of this without the expensive price tag of a customised design.

PROVIDING ESSENTIAL SERVICES

If you are working with Electroplating, Galvanising, Powder Coating or anything similar in the metal working industry, you are going to need a tank to carry out these processes. Our tanks offer a flexible, full-service solution to suit your needs.





Custom Safety that Lasts.

EFFICIENT AND EFFECTIVE PRODUCTION

Have everything you need at hand, with our onsite tank solution. As well as the standard process tank setup, we are able to include:

HEATER AND CAGE

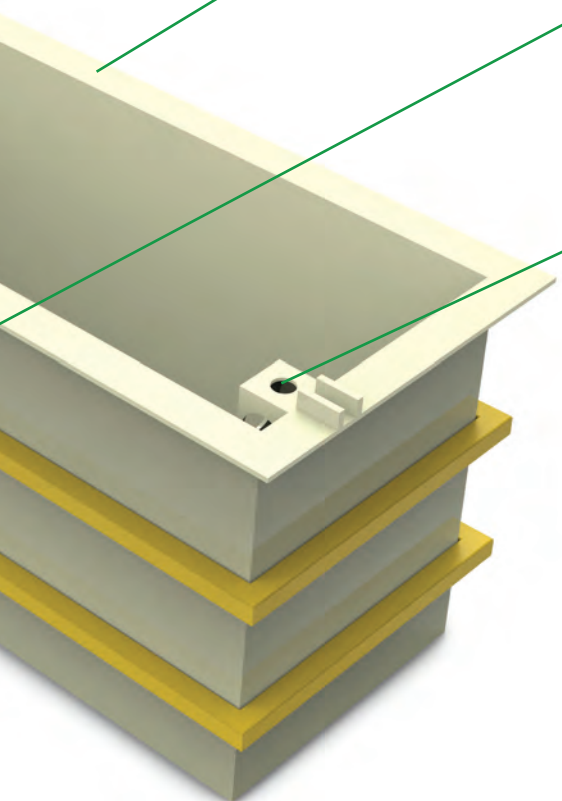
An element to heat liquids and a cage that will protect the tank and liquids from damage, caused by direct heat contact.

REINFORCED TANK WALLS/BRACKETS

Processing large volumes of products? We are able to reinforce the tanks and include brackets to support the use of Jigs.

OVERFLOW VENTS

Control fluid levels and direct output flow to effectively contain excess fluids and therefore reduce the risk of a hazardous chemical spill on site.



HazSure®

CHEMICAL STORAGE SOLUTIONS

Custom Safety that Lasts.

IBC Bunds

WHEN SAFETY & COMPLIANCE MATTER

Ensure spill control and containment of hazardous chemical leaks with our IBC (Intermediate Bulk Container) bunds, designed to meet all New Zealand HSNO and seismic requirements.

HSNO REQUIREMENTS FOR YOUR SITE

All of our bunds meet HSNO requirements for 110% bund capacity and splash angle, and are also designed for chemicals with an SG of up to 2.0.

STRONG AND LONG LASTING

Fabricated from a Polyethylene design, all of our IBC bunds have a maintenance and worry-free 25 year design life and come with a 10 year guarantee.

GET THE RIGHT SOLUTION FOR YOU

Choose from our single or double IBC bunds. All of our bunds can be supplied with rain covers. Our bunds are designed to be portable, so the IBCs can be moved with a fork hoist, allowing for quick and easy relocation as required.

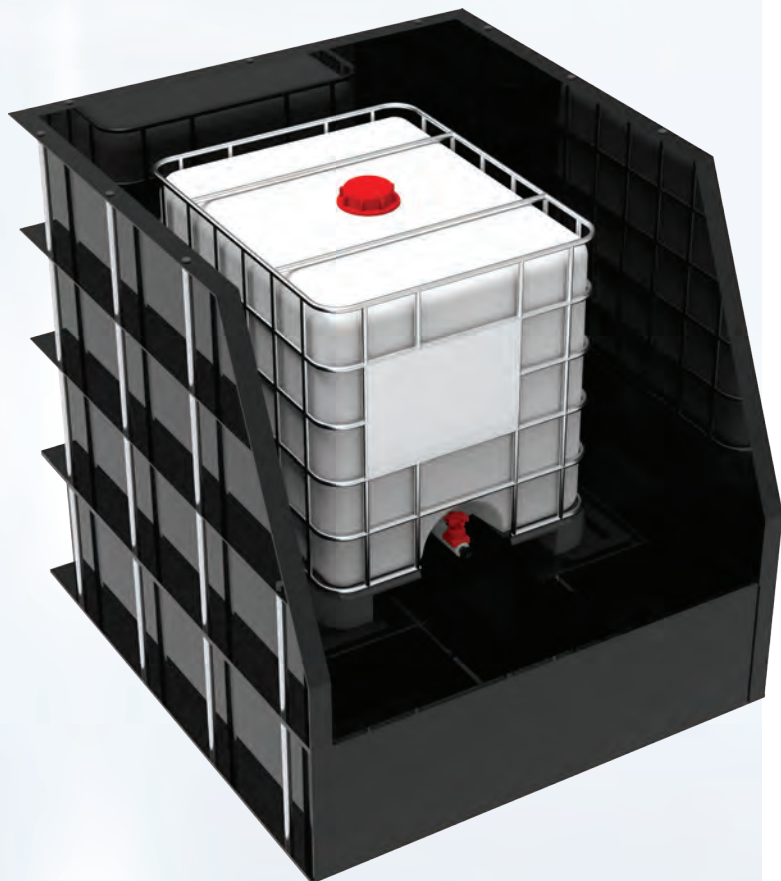
SOPHISTICATED DESIGN THAT KEEPS YOU PRODUCTIVE

DAY-TO-DAY

Easy access to IBCs for less down time and a straight forward process to replace them, saving you time and money. We also have options to include taps and valves to increase ease of use.

LONG-TERM

All of our bunds are rust, leak, crack, and shock resistant. By using Polyethylene and applying our design expertise, your IBC bunds will stay stronger and last longer.



For more information call (09) 263 7741

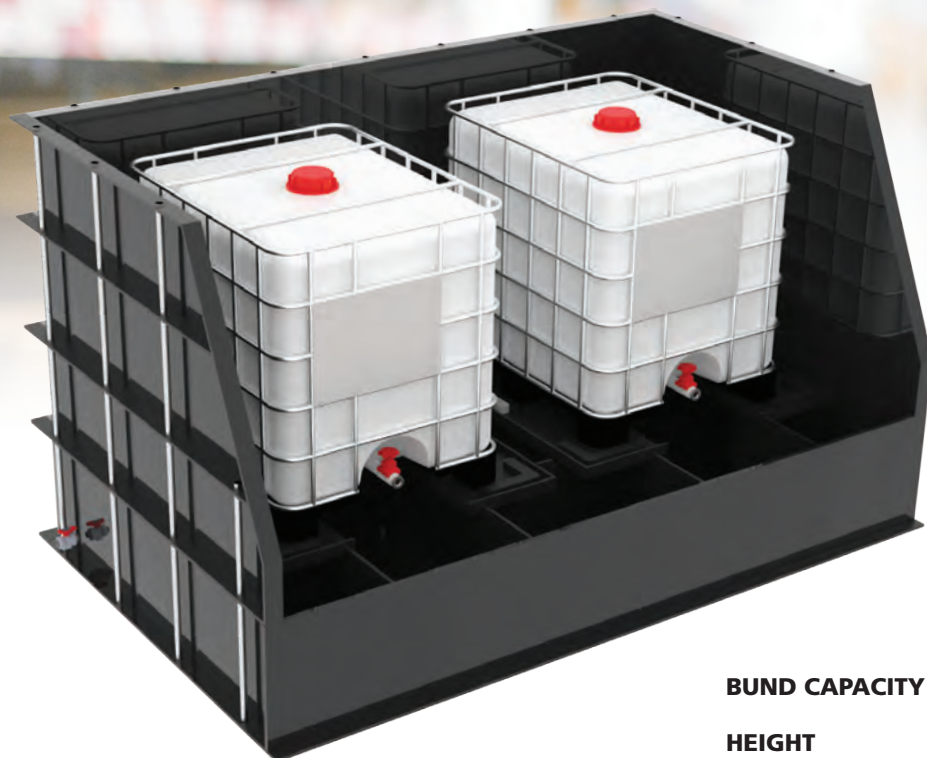
www.apd.co.nz



Custom Safety that Lasts.



DID YOU KNOW...
Our standard IBC bunds are
seismically rated to IL2
for NZ conditions.



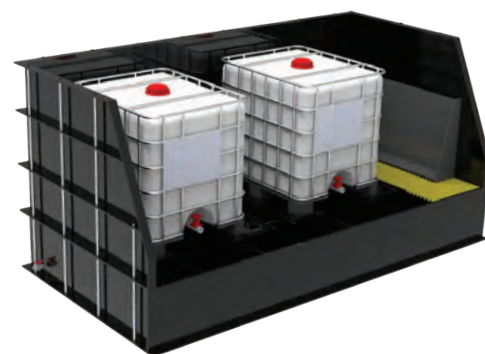
	SINGLE IBC BUND	DOUBLE IBC BUND
--	------------------------	------------------------

BUND CAPACITY	1,200L	2,200L
HEIGHT	1,805mm	1,805mm
WIDTH	1,716mm	3,160mm
DEPTH	1,955mm	1,955mm

LOOKING FOR SOMETHING TO MEET YOUR SPECIFIC REQUIREMENTS?

CUSTOM DESIGN

We build to your exact specifications, if it is pipework, instrument panels, pump mounts or anything else you need. Let us design something to suit your needs.



BUND AND DAY TANK OPTIONS

Our single and double bund with day tank options allow for complete configuration to meet your needs. Both sizes can come complete with 50L and 100L day tanks to suit your needs. You may also need level monitoring and alarms, pump mounts and valving all set up to suit your process. This allows the IBC to be changed without affecting your processes or the risk of damaging your equipment.

For more information call (09) 263 7741

www.apd.co.nz

Pipelines & Ducting

YOU HAVE CHOSEN YOUR TANK, NOW IT'S TIME TO THINK ABOUT SAFELY TRANSFERRING CHEMICALS AND HAZARDOUS SUBSTANCES TO AND FROM THE TANK.

Pipelines

Whether from truck to tank, or tank to point of use, or even disposing of waste chemicals, the pipework is an essential part of your process.

CUT COSTS NOT OPTIONS

With a range of polymer materials to choose from we will select the most suitable for compatibility, durability and cost, without the need for costly stainless steel.

TWICE AS SAFE

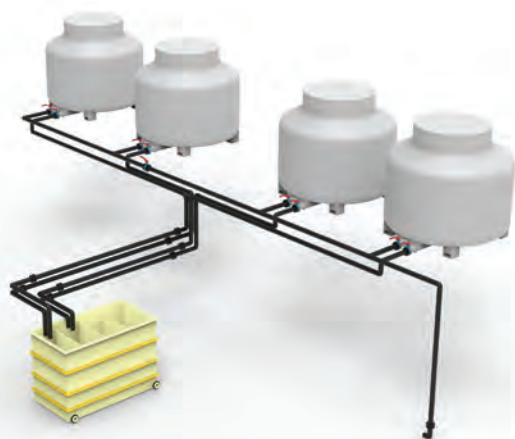
All of our PVC piping is chemically resistant and safe. If you require an additional layer of safety, we are able to also install a dual containment system; this twin wall protects your workspace against hazardous spills.

MAXIMISE QUALITY

Our installation team are fully trained and certified to deliver the highest quality service in a safe and effective manner. All work is pressure tested upon completion.

DON'T WAIT

PVC pipelines are significantly faster to install than stainless steel, so you will be up and running sooner.



HVAC Ducting

Looking for a safe and reliable way to transfer air?

DURABLE

Traditional ducting like steel may rust and corrode when you want to transfer corrosive air. By making our ducting from PP or PVC you could save on long-term replacement costs.

SAFETY COMPLIANCE

Longer lasting means a reduced risk of leaks and spills. All of our ducting is designed to SMACNA ducting standards.

VERSATILE

Get exactly what you need. Round, square, rectangular, on display or hidden, even choose from a range of colour options; we are able to make it all. By building in PP or PVC, we can fabricate solutions for the most complicated design requirements.

"All aspects of the job have been completed to a very high standard, with the result being we now have a very functional plant, that is operating efficiently and compliant to HSNO regulations."

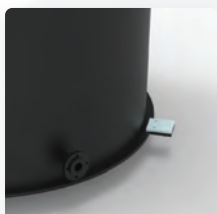
Brian Vercoe, Manufacturing Services Manager – 30 Seconds Ltd

To read more about the 30 Seconds Ltd project visit: www.apd.co.nz/case-studies

For more information call (09) 263 7741

www.apd.co.nz

Safety & Mixing Accessories



NOZZLES, VALVE ENDS & VALVES

Want to connect your pipework directly to your tank?

It's your choice, as we offer stub flanges and backing rings or valves and valve ends and depending on your needs, we may install a variety of sizes, because we build to order and you choose where on the tank you want them installed.



LADDERS, CAGES AND HANDRAILS

For safe access to your tanks we supply handrails, ladders and cages designed specifically to suit our tanks. Fabricated in steel and powder coated in a chemical resistant polyurethane for maximum protection, all our handrails, ladders and cages are designed in accordance with AS1657.



MIXER BRIDGES

For applications where mixing is required, we can provide mixers and mixer bridges designed specifically to suit your mixing needs and work optimally with our tanks. You get the benefit of a complete solution, ready to go, that will work. All of our tanks may be fitted with mixing baffles to improve mixing, based on the impeller design and mixer location in the tank.



SLOPING OR CONICAL BASES

Need to empty your tank completely?

Our sloping or conical base designs direct the flow of fluids to an outlet point at the lowest point of the tank to provide efficient and complete draining. There are two options available, a conical base design, or a single sloping design. We will work with you to determine the most suitable option based on the tank size and your requirements.



INSULATION

Ideal for tanks storing Sodium Hydroxide, or any chemicals that need to maintain temperature to avoid freezing. By insulating your tank, you minimise heat loss and save on the costs of heating. Our insulation is built into the tank, meaning it looks the same as our plain tank and you benefit from that same durable exterior.

PRETTY MUCH ANYTHING ELSE YOU MAY THINK OF!

Whether you require ease of access, or controlling temperatures, level measurement or improving health and safety, we are able to provide side entry manways to insulation and tank heaters, custom flanges and more. Whatever your requirement, talk to us about including it in your project.

HazSure® Technical Information

DANGEROUS CHEMICALS? NO WORRIES...

Regardless of the chemicals you are using, we will recommend the tank materials to suit your application.

Whether its PP, PE or PPE or a fibreglass composite, our team of experts will recommend the best solution for you, to ensure your workplace safety and compliance, so you experience the benefits – i.e. adaptable design choices and improved workplace efficiency.

APD are able to provide cylindrical storage tanks and rectangular open process tanks to meet your needs.

Worksafe - Minimum 25 Year design Life	HazSure® HDPE Tanks	HDPE Rotomoulded Tanks	Stainless Steel Tanks (316)
Common chemicals			
Sodium Hydroxide up to 50% solution	✓	×	✓
Sodium Hypochlorite up to 13% solution	✓	×	×
Sulfuric Acid up to 80% solution	✓	×	×
Hydrochloric Acid up to 37% solution	✓	×	×
Aluminium Sulphate up to 100% solution	✓	×	✓
Ferric Chloride up to 100% solution	✓	×	×
Citirc Acid up to 100% solution	✓	×	✓
Hydrofluorosilicic Acid up to 100% solution	✓	×	×
	✓	Excellent - no effect	
	✓	Good - minor effect, slight corrosion or discolouration	
	×	Do not use	

Source: Industrial Specialties Mfg

FLAT ROOF PLAIN TANK & BUND DIMENSIONS

Working Volume (L)	500	1,000	1,500	2,000	2,500	3,000	5,000
Tank Height Overall (mm) A	1,018	1,263	1,393	1,538	1,534	1,703	2,008
Tank Base Diameter (mm) B	959	1,192	1,352	1,462	1,627	1,690	1,988
Bund Height Overall (mm) C	576	821	851	901	891	1,008	1,198
Bund Base Diameter (mm) D	1,421	1,650	1,910	2,110	2,285	2,402	2,824

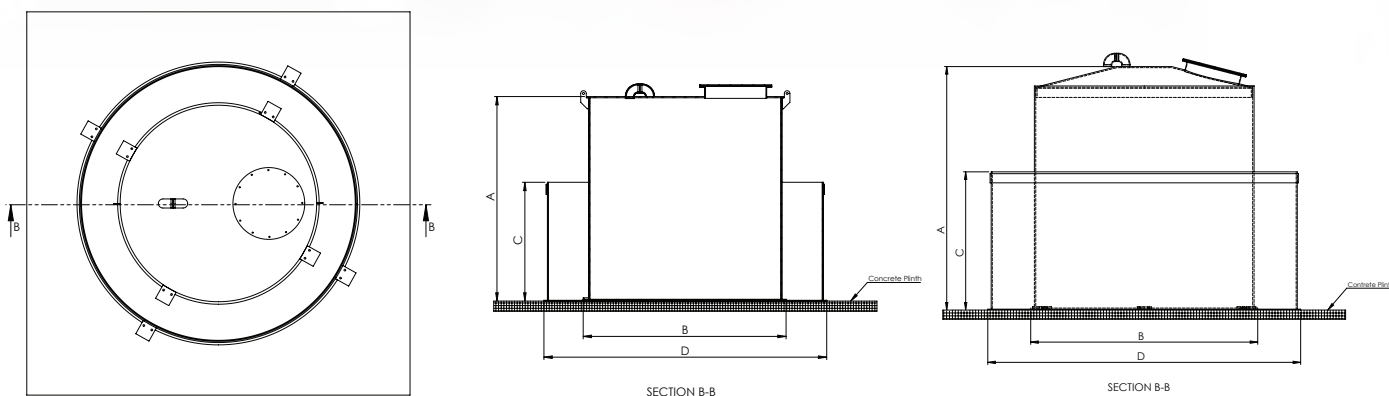
For more information call (09) 263 7741

www.apd.co.nz

CONICAL ROOF PLAIN TANK & BUND DIMENSIONS

Working Volume (L)	5,000	10,000	20,000	30,000	40,000	50,000	60,000
Tank Height Overall (mm) A	2,077	2,651	3,268	3,750	4,209	4,347	5,000
Tank Base Diameter (mm) B	1,988	2,500	3,175	3,630	4,010	4,400	4,520
Bund Height Overall (mm) C	1,128	1,512	1,760	-	-	-	-
Bund Base Diameter (mm) D	2,804	3,470	4,485	-	-	-	-

Height and diameter may be varied to meet your space requirements.



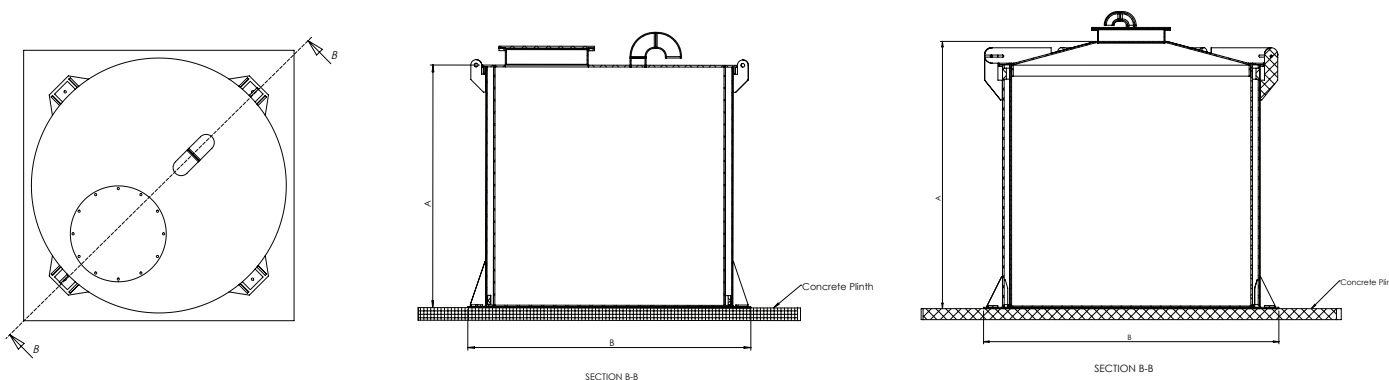
FLAT ROOF SELF-BUNDED TANK DIMENSIONS

Working Volume (L)	500	1,000	1,500	2,000	3,000	5,000
Height Overall (mm) A	1,059	1,227	1,353	1,504	1,675	1,962
Base Diameter (mm) B	977	1,216	1,393	1,506	1,752	2,079

CONICAL ROOF SELF-BUNDED TANK DIMENSIONS

Working Volume (L)	5,000	7,500	10,000	12,500	15,000	20,000
Height Overall (mm) A	1,962	2,238	2,489	2,845	3,025	3,288
Base Diameter (mm) B	2,079	2,386	2,629	2,800	3,026	3,333

Height and diameter may be varied to meet your space requirements.



For more information contact
your APD account manager
or call (09) 263 7741

www.apd.co.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/13/2023 08:55:24 AM
To: Ben Thompson <[REDACTED]>; Tom Wilson <[REDACTED]>
Cc: Nick Ulrich <[REDACTED]>
Subject: RE: Lora install
Attachments: image001.jpg

Brilliant. Thanks all. Cheers, Tupu

From: Ben Thompson <[REDACTED]>
Sent: Monday, 12 June 2023 9:34 am
To: Tom Wilson <[REDACTED]> Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Nick Ulrich <[REDACTED]>
Subject: Re: Lora install

Hi all,

I'll set u up in water outlook as a report viewer Tupu and this will allow u to download the data. I am off work today and will be in office tomorrow. I'll set u up then

Get [Outlook for Android](#)

From: Tom Wilson <[REDACTED]>
Sent: Monday, June 12, 2023 9:07:48 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ben Thompson <[REDACTED]>
Subject: RE: Lora install

Hi Tupu,

We are happy to supply you any data you would like, but I don't have the admin rights to give you unattended access sorry. Ben Thompson may be able to help you?

Attached is data from 17 April to today in .xls and a summary graph.

But yes, I would like to come take a manual reading of the flowmeter totaliser to verify all is working like it should. It should be ok but worth checking.

Last manual reading was 52080.57m3 at April 17 at 12:31pm.

Cheers,

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, June 11, 2023 12:37 PM
To: Tom Wilson <[REDACTED]>
Cc: Juan Benadie <[REDACTED]> Chris Appleby <[REDACTED]>
Subject: RE: Lora install

Hi Tom,

I trust that the Lora unit is functioning correctly and is now collecting data? You mentioned on one of your visits that Tuatara should be able to have access to this data. As our own unit does not store data beyond 7 days, it would be very helpful if we had access to the historical data. Is online access to our data possible and are you able to assist?

Thanks, Tupu

From: Tom Wilson <[REDACTED]>
Sent: Saturday, 15 April 2023 11:18 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Juan Benadie <[REDACTED]> Chris Appleby <[REDACTED]>

Subject: RE: Lora install

Thanks, we are interested in what is being used successfully elsewhere.

The IoT devices we are using are cheap but this seems a lot more robust and supports a lot more protocols.

Chris and Juan, this is from Pacific Technologies and is IoT and DNP3 capable plus more.

Cheers,

Tom Wilson

Electrical Systems Engineer

Te kaupūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, April 14, 2023 2:19 PM

To: Tom Wilson <[REDACTED]>

Subject: Re: Lora install

No worries.

Just for your interest here is the unit at Tui Brewery, T



Sent from my iPhone

On 14/04/2023, at 13:59, Tom Wilson <[REDACTED]> wrote:

Hi Tupu,

Lora unit is installed at the Brewery but they've supplied the wrong connector for the antenna.

The proper part is on the way, should be here Tuesday ish.

Thanks,
Tom

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From: Rajesh Rajendran [REDACTED]
Sent time: 05/11/2023 10:01:47 AM
To: Mailbox - Building WOF <BuildingWOF@kapiticoast.govt.nz>
Cc: WLG Compliance <wlgcompliance@aquaheat.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; office <office@tags.net.nz>
Subject: BWoF 2023 - 7 Sheffield Street - CS0434
Attachments: image001.png image002.png BWoF 2023 - 7 Sheffield Street - CS0434.pdf

Hi Team,

Please find the attached BWoF documents for 7 Sheffield Street, for your approval.

Please let me know if you have any questions.

Regards,

Rajesh Rajendran (Rj)
Compliance Administrator



92-96 Main Road
Tawa, Wellington 5028
PO Box 51031, Tawa, Wellington 5249
www.aquaheat.co.nz

A member of the Horizon Energy Group

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Building Warrant of Fitness (Form 12)

(In compliance with Section 108 Building Act 2004)

THE BUILDING	
Street address of building:	7 Sheffield Street, Paraparaumu
Legal description of land:	Lot 1 DP 87654-SUBJ TO EMNT
Building Name:	Tuatara Brewery and tasting room
Year First Constructed:	
Intended life of the building if 50 years or less	Indefinite
Location of building within site/block number:	Entire site
Level/unit number:	Single with Mezzanine
Compliance Schedule No:	CS0434
BWoF Anniversary Date:	18 May
BWoF Expiry Date:	18/05/2024
Maximum Occupants:	55
Highest fire hazard category for building use:	
Building Usage:	Bewery
THE OWNER	
Name of Owner:	Marcurous Properties
Contact person:	Hayden Dudek
Mailing Address:	PO Box 30123, Lower Hutt 5040
Street address:	7 Sheffield Street, Paraparaumu
AGENT	
Name of authorised agent	Aquaheat New Zealand Ltd
Address:	92-96 Main Road, Tawa, Wellington 5028 PO Box 51031, Tawa, Wellington 5249
Telephone No:	04 232 5179

The inspection, maintenance and reporting procedures of the compliance schedule have been fully complied with during the 12 months prior to the date stated below in relation to the following specified systems:

SYSTEM FEATURE:

- SS2 -Automatic or manual emergency warning systems for fire or other dangers
- SS4-Emergency Lighting Systems
- SS7- Automatic back-flow preventers connected to a portable water supply
- SS14/2 – Signs for systems
- SS15/2 – Final Exits
- SS15/4 – Signs for communicating information intended to facilitate evacuation

SIGNATURE of authorised agent.....

..... DATE: 11/05/2023

IQP SPECIFIED SYSTEMS Form 12 A CERTIFICATE

(In compliance with Section 108(3)(c), Building Act 2004)

THE BUILDING	
Street address of building:	7 Sheffield Street, Paraparaumu
Legal description of land:	Lot 1 DP 87654-SUBJ TO EMNT
Building Name:	Tuatara Brewery and tasting room
Location of building within site/block number:	Entire site
Level/unit number:	Single with Mezzanine
Compliance Schedule No:	CS0434
Annual BWOF due:	18/05/2024
THE OWNER	
Name of Owner:	Marcurous Properties
Contact person:	Hayden Dudek
Mailing Address:	PO Box 30123, Lower Hutt 5040
Street address:	7 Sheffield Street, Paraparaumu
Registered Office:	7 Sheffield Street, Paraparaumu
Name of Licensed Building Practitioner (IQP):	Anton Curtis
Address:	92-96 Main Road, Tawa, Wellington 5028 PO Box 51031, Tawa, Wellington 5249
Telephone No:	04 232 5179
IQP Reg. No:	306141

The inspection maintenance and reporting procedures of the compliance schedule have been fully complied with during the 12 months prior to the dates stated below in relation to the following specified systems:

SYSTEM FEATURE:**SS2** -Automatic or manual emergency warning systems for fire or other dangers**SS4**-Emergency Lighting Systems**SS14/2** – Signs for systems**SS15/2** – Final Exits**SS15/4** – Signs for communicating information intended to facilitate evacuation

COMMENTS: Satisfactory

NAME OF SERVICE PERSON: Anton Curtis

SIGNATURE:

DATE: 11/05/2023



Back-Flow Prevention Device - Test And Maintenance Report

TO: Peter Jackson Plumbing
31A Kapiti Road
Paraparaumu

BUILDING OWNER:

The back-flow preventer detailed hereon has been tested as required by the requirements of the compliance schedule and in accordance with the testing requirements as set out by the NZ Building Code Approved Documents Section G12 Water Supplies paragraph 3.7.2 October 2001.

Date Tested: 14/04/2023 Size: 2 inch
Make Of Device: Wilkins Located At: 7 Sheffield St, Paraparaumu
Model Number: 350DC (incoming mains supply Sheffield St)
Serial Number:
Type of Protection: **Zone** / Individual / Containment
Type of Hazard: Low / **Medium** / High

	Reduced Pressure Devices			Pressure Vacuum Breaker	
	Double Check Devices			Air Inlet	Check Valve
	First Check	Second Check	Relief Valve		
Initial Test	DC-Closed Tight <input type="checkbox"/> RP 64 kpa Leaked <input type="checkbox"/>	Closed Tight Y RP kpa Leaked <input type="checkbox"/>	Opened At 14 kpa	Opened At kpa Did Not Open <input type="checkbox"/>	kpa Leaked <input type="checkbox"/>
Repairs & Materials Used					
Test After Repair	DC-Closed Tight <input type="checkbox"/> RP kpa Leaked <input type="checkbox"/>	Closed Tight <input type="checkbox"/> RP kpa Leaked <input type="checkbox"/>	Opened At kpa	Opened At kpa	kpa

COMMENTS: **PASSED. TESTED SATISFACTORILY AT THE TIME OF INSPECTION**

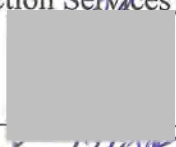
The above is certified to be true

Company Name: BCIS (Building Compliance Inspection Services) Ltd

Company Address: PO Box 158
Waikanae

Certified Tester: Dino Toscano

IQP Registration No: 117489

Signature: 

Date: 14/04/2023

Independent Qualified Person

The NZ Building Code handbook compliance schedules section CS7 advises that automatic backflow preventers connected to a potable water supply shall be inspected and tested annually.

PO Box 158, Waikanae 5250, New Zealand
Telephone 04 293 2800 Facsimile 04 293 2801 Mobile 0274 479 087 Email bcis@xtra.co.nz

BCIS (BUILDING COMPLIANCE INSPECTION SERVICES) LTD



Back-Flow Prevention Device - Test And Maintenance Report

TO: Peter Jackson Plumbing
31A Kapiti Road
Paraparaumu

BUILDING OWNER:

The back-flow preventer detailed hereon has been tested as required by the requirements of the compliance schedule and in accordance with the testing requirements as set out by the NZ Building Code Approved Documents Section G12 Water Supplies paragraph 3.7.2 October 2001.


Date Tested: 14/04/2023 Size:
Make Of Device: WATTS Located At: 7 Sheffield St, Paraparaumu
Model Number: (for beer water supply)
Serial Number: 02281
Type of Protection: Zone / Individual / Containment
Type of Hazard: Low / Medium / High

	Reduced Pressure Devices			Pressure Vacuum Breaker	
	Double Check Devices			Air Inlet	Check Valve
	First Check	Second Check	Relief Valve		
Initial Test	DC-Closed Tight <input type="checkbox"/> RP 56 kpa Leaked <input type="checkbox"/>	Closed Tight Y RP kpa Leaked <input type="checkbox"/>	Opened At 14 kpa	Opened At kpa Did Not Open <input type="checkbox"/>	kpa Leaked <input type="checkbox"/>
Repairs & Materials Used					
Test After Repair	DC-Closed Tight <input type="checkbox"/> RP kpa Leaked <input type="checkbox"/>	Closed Tight <input type="checkbox"/> RP kpa Leaked <input type="checkbox"/>	Opened At kpa	Opened At kpa	kpa

COMMENTS: **PASSED. TESTED SATISFACTORILY AT THE TIME OF INSPECTION.**

The above is certified to be true

Company Name: BCIS (Building Compliance Inspection Services) Ltd
Company Address: PO Box 158
Waikanae

Certified Tester: Dino Toscano Signature: 
IQP Registration No: 117489 Date: 17/04/2023
Independent Qualified Person

The NZ Building Code handbook compliance schedules section CS7 advises that automatic backflow preventers connected to a potable water supply shall be inspected and tested annually.



Form 12A

Certificate of compliance with inspection, maintenance, and Reporting procedures

The Building

Street address of building: 7 Sheffield St, Paraparaumu
Legal description of land where building is located: LOT 1 DP 87654-SUBJ TO EMNT
Building name: Tuatara Brewery & Tasting Room
Location of building within site/block number:
Level/unit number:

The Owner

Name of owner: Marcurous Properties
Contact person:
Mailing address: PO Box 30123, Lower Hutt
Street address:

Compliance

The inspection, maintenance, and reporting procedures of the compliance schedule have been fully complied with during the 12 months prior to the date stated below in relation to the following specified system/s:

SS7 Back-Flow Preventer System
(Wilkins 350DC, incoming mains supply Sheffield St)

DATE OF ANNUAL IQP INSPECTION: 14th April 2023
DATE OF IQP RE-INSPECTION: N/A
REGISTRATION NO: 117489
TITLE: Dino Tos [redacted] person
INDEPENDENT: [redacted] person
SIGNATURE: [redacted]
DATE: 17/09/2023



From: Grant Stuart <[REDACTED]>
Sent time: 04/03/2023 03:10:44 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear
Attachments: image001.png image002.png

Thank you Tupu

I will get tom on to it when he can.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council

[REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 3 April 2023 3:05 PM
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Hi Grant,
Should you require a PO, please use TGTUA1889.
Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 24 March 2023 3:22 pm
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Brilliant, thanks for following up. I am happy to go ahead with the install with the below costings.
Thanks, Tupu

From: Grant Stuart <[REDACTED]>
Sent: Friday, 24 March 2023 1:08 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear

Hi Tupu

If you email below is costing for on line gear.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council

[REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tom Wilson <[REDACTED]>
Sent: Friday, 24 March 2023 9:21 AM
To: Grant Stuart <[REDACTED]>
Subject: RE: tuatara brewery on line gear

Hi Grant,

This is the breakdown of install of the Tuatara Brewery wastewater outflow Lora pulse unit and transmitter.

Hardware costs:

Lora transmitter and pulse unit \$170.00

External antenna with mounting bracket \$60.00

24VDC relay for splitting pulse between devices \$20.00

Wire, labels \$2.00

Install and testing

2.5 hours labour at \$84ish/hour

Mount antenna externally above cabinet using existing gland holes at base of cabinet to bring cable through. Mount lora unit in cabinet and connect antenna.

Currently pulse from flowmeter is going straight to PLC digital input. I will place an interfacing relay coil in parallel with the input and use the NO contact to duplicate the pulse to the Lora unit.

Testing will involve taking a manual read of flowmeter totaliser, watch a few pulses to make sure interfacing relay is working, log onto Watermetrics portal to see pulses are getting through. Visit a few days later, read flowmeter totaliser again and make sure the reading on watermetrics portal is same as difference between two totaliser readings.

Install will be pretty quick, functional testing will take longer than the install.

We already have the hardware on hand. Please let us know if you would like us to proceed with the install, Otherwise we are happy to pass the hardware onto a contractor of your choice. The challenge is I don't know any contractors locally who would know how to do this.

Thanks,

Tom

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

-

From: Grant Stuart <[REDACTED]>
Sent: Thursday, March 23, 2023 2:12 PM
To: Tom Wilson <[REDACTED]>
Subject: tuatara brewery on line gear

Hi tom

Can I have a run down on what you are going to install.

You went and had a look with ben can you put a price together for install.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

[REDACTED]

Mobile [REDACTED]



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From: Ben Thompson <[REDACTED]>
Sent time: 06/13/2023 11:08:49 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Setting up the data export for Tuatara
Attachments: image001.jpg

Why don't I do daily, weekly, monthly, annual?

Ben Thompson

Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Tuesday, June 13, 2023 10:33 AM

To: Ben Thompson <[REDACTED]> Tom Wilson <[REDACTED]>

Subject: RE: Setting up the data export for Tuatara

Hi Ben,

Tuatara is going to be sailing close to the wind for discharge volume and waste storage so having daily data would be ideal. Not sure if that is possible at your end? I guess we could always take a manual reading each morning but if we have the technology then that would be great.

Cheers, Tupu

From: Ben Thompson <[REDACTED]>

Sent: Monday, 12 June 2023 12:31 pm

To: Tom Wilson <[REDACTED]> Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: Setting up the data export for Tuatara

Hi Tupu and Tom,

I am just getting wateroutlook to check a few things.

Are you interested in receiving the data on a monthly basis? As well as an annual basis?

Ben Thompson

Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tom Wilson <[REDACTED]>

Sent: Monday, June 12, 2023 9:08 AM

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Ben Thompson <[REDACTED]>

Subject: RE: Lora install

Hi Tupu,

We are happy to supply you any data you would like, but I don't have the admin rights to give you unattended access sorry. Ben Thompson may be able to help you?

Attached is data from 17 April to today in .xls and a summary graph.

But yes, I would like to come take a manual reading of the flowmeter totaliser to verify all is working like it should. It should be ok but worth checking.

Last manual reading was 52080.57m3 at April 17 at 12:31pm.

Cheers,

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Sunday, June 11, 2023 12:37 PM

To: Tom Wilson <[REDACTED]>

Cc: Juan Benadie <[REDACTED]> Chris Appleby <[REDACTED]>

Subject: RE: Lora install

Hi Tom,

I trust that the Lora unit is functioning correctly and is now collecting data? You mentioned on one of your visits that Tuatara should be able to have access to this data. As our own unit does not store data beyond 7 days, it would be very helpful if we had access to the historical data. Is online access to our data possible and are you able to assist?

Thanks, Tupu

From: Tom Wilson <[REDACTED]>

Sent: Saturday, 15 April 2023 11:18 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Cc: Juan Benadie <[REDACTED]> Chris Appleby <[REDACTED]>

Subject: RE: Lora install

Thanks, we are interested in what is being used successfully elsewhere.

The IoT devices we are using are cheap but this seems a lot more robust and supports a lot more protocols.

Chris and Juan, this is from Pacific Technologies and is IoT and DNP3 capable plus more.

Cheers,

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, April 14, 2023 2:19 PM

To: Tom Wilson <[REDACTED]>

Subject: Re: Lora install

No worries.

Just for your interest here is the unit at Tui Brewery, T



Sent from my iPhone

On 14/04/2023, at 13:59, Tom Wilson <[REDACTED]> wrote:

Hi Tupu,

Lora unit is installed at the Brewery but they've supplied the wrong connector for the antenna.

The proper part is on the way, should be here Tuesday ish.

Thanks,
Tom

Get [Outlook for Android](#)

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/20/2023 04:26:02 PM
To: Ben Thompson <[REDACTED]>
Subject: RE: Welcome to WaterOutlook
Attachments: image001.png image002.png

Hi Ben,

Just confirming that I have access to WaterOutlook. Presume you are still working on the data share piece, but thanks for moving along.

Cheers, Tupu

From: WaterOutlook Kapiti Coast <noreply@kapiticoast.nz.wateroutlook.com>

Sent: Tuesday, 20 June 2023 3:44 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: Welcome to WaterOutlook



Welcome to WaterOutlook

Hi Tupu,

Ben Thompson has created an account for you on WaterOutlook. You'll need to activate your account before using it - [REDACTED] to start.

You've been given Alert Only access to the following utilities: Trade waste.

The address for accessing your WaterOutlook site via web browser or our mobile app is kapiticoast.nz.wateroutlook.com.

Please contact Ben Thompson by emailing [REDACTED] should you have any questions.

Thanks,

The WaterOutlook Team



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/21/2023 04:30:30 PM
To: Ben Thompson <[REDACTED]>
Subject: RE: Daily report
Attachments: image001.png image002.png

This is fantastic, very helpful.

As we are not here afterhours, having a hourly discharge data overnight helps me greatly as it allows me to program the PLC somewhat.

Correct, we only have a 7 day totaliser history. Okay for overall volume but doesn't help with the 4pm-4am discharge times or identify any peak flow hours etc.

The pH data is not recorded, but the program does not allow discharge if out of spec, which off the top of my head is outside of 6-10pH?....

Thanks for this, very useful. Not sure if you have contacts at Horizons, but they have a good online data access. Every farmer in the area can view their water take and discharge etc. Maybe worth talking to someone up there is your looking to expand your 3rd party access.

Cheers, Tupu

From: Ben Thompson <[REDACTED]>
Sent: Wednesday, 21 June 2023 11:52 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Daily report

Does it meet your requirements?

- You have a table showing hourly data for last 31 days.
- The most recent data will be at the bottom.
- The pivot table provides daily data (total and max hourly)
- The graph shows daily and max daily
- You should be getting this daily, let me know if you get it (9am ish)
- Anything missed?

Tupu, you have access to seven days of data on the local plc but no access to data further back correct? Ie you don't have an historian.

Something that would be helpful for us is to have access to any chemical data you have on the effluent leaving your site, such as pH.

Do you export this data anywhere, or is something we could look at sending to LORA network (same as the current flow data).

Happy to discuss further if you are interested.

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Mobile [REDACTED]





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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 12/02/2023 05:45:00 PM
To: Lauren Mentjox <[REDACTED]>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

I hope you're having a great weekend. I have tried to contact Sean to discuss this so will try again first thing in the morning.

Kind regards,
Lauren

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Sunday, 12 November 2023 11:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Council's viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 02/09/2024 02:21:59 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Tupu

Thank you for the time to discuss about the Tradewaste consent and related improvement projects at your end.

Could you provide an update of your projects.

Kind regards.

Ramesh Pillai

Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, December 11, 2023 10:27 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

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Due to the scale of investment and time to implement solutions, we seek your feedback on the feasibility of on-site options and insight to any progression in the Kapiti Coast District Council's long term strategy for providing local employers with access to municipal treatment facilities.

Nga mihi,
Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Saturday, 2 December 2023 5:45 pm
To: Lauren Mentjox <[REDACTED]> Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

Ramesh Pillai

Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

I hope you're having a great weekend. I have tried to contact Sean to discuss this so will try again first thing in the morning.

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Lauren

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To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu

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I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Councils viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur [REDACTED]
Sent time: 02/03/2024 11:21:47 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - KCDC Lab Report JAN240164 attached
Attachments: KCDC Lab Report JAN240164 -Tuatara Brewery.pdf

Hi Tupu,

Enclosed is the latest KCDC Lab Report JAN240164 for Tuatara's Wastewater samples received 11/1/2024 An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council



www.kapiticoast.govt.nz

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Laboratory Report No:	JAN 240164
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			11-Jan-24
Collection Time			12:00 PM
Sample site ID			Tuatara
KDCD Laboratory Log Number			240164
Date Received / Analysed			11 & 12/01/2024
Time of arrival to Lab			3:30 PM
	Lab Used	Method	
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	7.6
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.36
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	794
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	38.7
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	92
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	10,560
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	7,080
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested

NOTE:

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

2/02/2024

From: Ben Thompson <[REDACTED]>
Sent time: 01/10/2024 09:32:29 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Daily demand - 2024-01-08

Corrected. If you have a look now the dates should run continuously

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council

[REDACTED]
Mobile [REDACTED]
www.kapiticoast.govt.nz
-----Original Message-----

From: Tupu Gregory
Sent: Tuesday, January 9, 2024 9:54 AM
To: Ben Thompson
Subject: FW: Daily demand - 2024-01-08

Hi Ben, Happy New Year.
Hey looks like you will need to update the pivot table to capture the new year data.
Cheers, Tupu

-----Original Message-----
From: WaterOutlook Kapiti Coast
Sent: Tuesday, 9 January 2024 7:00 am
To: Tupu Gregory
Subject: Daily demand - 2024-01-08

Report: Daily demand
Description: Highlights Tuatara hourly consumption and discharge
Type: Daily (By Hour)
Start Date: 8/01/2024
Generated: 9/01/2024 7:00 am

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If you received this in error, please contact the sender and delete the material from any computer.

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/09/2024 09:54:03 AM
To: Ben Thompson <[REDACTED]>
Subject: FW: Daily demand - 2024-01-08
Attachments: Daily demand - 2024-01-08.xlsx

Hi Ben, Happy New Year.
Hey looks like you will need to update the pivot table to capture the new year data.
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From: Kim Mazur [REDACTED]
Sent time: 12/20/2023 04:33:12 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - KCDC Lab Report DEC235096 attached
Attachments: KCDC Lab Report DEC235096 .pdf

Hi Tupu,

Enclosed is the latest KCDC Lab Report DEC235096 for Tuatara's Wastewater samples received 1/12/2023 and 12/12/2023. An invoice for this work will follow in due course.

Wishing you and your team Happy Holidays.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council



www.kapiticoast.govt.nz

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	DEC 235096
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Collection Date			30-Nov-23	12-Dec-23
Collection Time			6:00 PM	8:00 AM
Sample site ID			Tuatara	Tuatara
KCDC Laboratory Log Number			235096	235277
Date Received / Analysed			1-Dec-23	12-Dec-23
Time of arrival to Lab			10:30 AM	9:30 AM
	Lab Used	Method		
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	13.8	18.4
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.89	5.44
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	464	225.2
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	20.85	12.5
Total Nitrogen (TN) g/m ³	KCDC	Thermofisher Method ACD007	76	41
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	7,250	3,532
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	4,515	2,175
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested

NOTE:

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

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Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

20/12/2023

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 12/11/2023 10:27:15 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg Tuatara waste water improvement plan December 2023.docx

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Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

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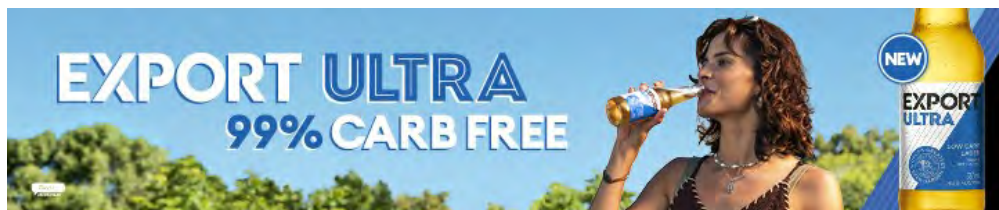
Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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Tuatara Brewery Trade Waste Improvement Plan**Version 3 – December 2023**

#	Consent Condition	Consent Description	Action	Estimated Completion	Comments	Cost
1	Part 1-5	Event Notification	Update Tuatara Spill Response & Emergency Response	Complete	Chemical spill, SOP has been updated and communicated to staff, to notify KCDC and the Fire Service.	
2	Part 1-8	Temperature < 40°C	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater >40.0°C	
3	Part 1-9; Part 2-11b	pH control & monitoring	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater < 6.0pH or >10pH. pH correction controlled via PLC and dosing pumps & chemicals	
4		WWTP pH probe calibration	Monthly pH probe calibrations	Complete	Underway with records available in request	
5	Part 1-10	Dry solid matter- > 15mm	Solids control	Complete	All wastewater passes through 1 of 2 macerating pumps before discharge to council system	
6	Part 2-2,3,7	Discharge flow rate, volume & hours	Cap discharge pump flow rate	Under Review	<p>Flowrate capped at 2.5m³/hr, totalling max 30m³ between 4pm - 4am.</p> <p>We can manage the daily volume limit with some improvements and the rate of discharge is being maintained.</p> <p>We have installed some buffering capacity (#9) but would need to invest in further capacity, controls and capability to meet the discharge hours requirement.</p> <p>Note, Tuatara is currently discharging during daytime hours after verbal agreement</p>	\$50-100,000 and require 3-6 months

					with the Council's wastewater team to minimise emergency discharges	
7	Part 2-5c	Wastewater flow meter verification	Calibrate wastewater flow meter	Complete	Certified 30/1/23 with biannual calibrations added to preventative maintenance schedule	
8	Part 1-6; Part 2-5b	Wastewater flowmeter data availability	Install Council unit	Complete	Unit installed 04/23. Live online hourly flowmeter rate and volume data available to Council	
9	Part 2-12	On-site storage tank	Increase wastewater storage capacity on site from current 15m ³	Complete 2/6/23	Tuatara has purchased and installed 44m ³ additional storage. The increased buffer volume is sufficient to store the seven-day average discharge volume of 28m ³ /day.	
10	Part 2-6	Composite sampler	Procure and install composite sampler	Complete 09/23	Operational	
11	Part 2-2,3	Additional buffer vessel	Procure and install additional storage tank	Under review	Source additional wastewater storage vessel(s) to buffer a 24hr peak event >45m ³ Additional scope to install buffer and Settling tank to remove solids. This is linked to Item 6 above	
12	Part 2-8	Ongoing Monitoring	Monitoring of composite sampler results	Complete 09/23	Operational	
13	Part 2-4	Discharge Characteristics: COD <2500g/m ³ , BOD <1000g/m ³ , TN <5g/m ³ , TP <50g/m ³ , TSS <1000g/m ³	Divert yeast and hop material from fermentation away from wastewater.	Underway – Est Completion 31/10/23	A two-week intensive wastewater survey in March/April showed high levels of COD/BOD, TN, TSS, in addition to a large volume of wastewater, but consistent with discharge characteristics of similar sized craft breweries. Organic loading mostly arises from three waste streams: Spent grain, spent yeast and trub. At the time of the survey,	

					<p>spent grain had been collected and removed as stock feed. Where practical and possible (due to storage space, odour, haulage), spent yeast can be used as stock feed. To do this, Tuatara has engaged with Grainhub, a stock feed business, to remove yeast and hop slurry. A trial was undertaken in July to store all yeast collected in a holding vessel. Benchmarking showed organic loading can be reduced by 40%, and early sampling results showed an 80% reduction in TSS and a 33% reduction in COD. Sampling results sent in October.</p> <p>Discharge characteristics of pH, FOG and temperature are either being, or can be, achieved.</p> <p>TSS: We are now operating closer to the limit but not 100% below the 1,000g/m³ target. A self-cleaning solids screen removal with pump/controls/piping should enable compliance. This would have some noise and additional waste bins needed and require 6-9 months (mostly due to typical supplier lead times). No significant impact on COD/BOD is expected.</p> <p>COD/BOD – we visited our Timaru site in November to investigate the new \$7m wastewater treatment plant (WWTP) consisting of screens, aerobic bio</p>	\$125-150,000
--	--	--	--	--	---	---------------

					<p>processing, sludge flocculation and solids screw press. With similar input material it can meet the Kapiti Coast District Council standards for COD/BOD. The Timaru facility has taken several years to complete due to COVID interruptions but would typically take 18-24 months due to consents, size, building works, importing the system, and start-up.</p> <p>A scaled down unit for Tuatara would require the entire front carpark area. This would remove car parking and create noise and odour, as well as require waste truck access. It would also require agreement with our landlord.</p> <p>TN – this is unlikely to be achieved even with a full WWTP on site. The Timaru facility achieves <150 but not <5. We do not currently have a solution for this.</p>	\$1.8 to 2.0m excluding civil works, consents, engineering and project management
14	Part 2-13	Clean in Place (CIP)	Complete feasibility assessment to implement CIP kitchen	01/08/24	<p>This action will examine shifting the brewery to a model to reduce single-use, one-way CIP methodology and chemicals lost to waste. This project would involve significant capital expenditure. We propose to scope and cost the project during the dispensation period examining external supplied and internal options and, subject to an investment decision and capital allocation, complete the project the following budget year.</p>	

15	Part 2-13	Solids removal	Investigate additional methods to reduce TSS	01/08/24	<p>Investigate the installation of additional storage and collection vessels to settle out TSS through coagulation or flocculation, aided by aluminium sulphate or polymers to assist to precipitate. This would depend on commercial and physical (site area and access) viability</p> <p>See Item 13 comments above regarding TSS – this requires a two-stage approach 1. Physical screen system to remove solids (\$125k-\$150k). 2. Full WWTP (\$1.8m-\$2.0m)</p>	
16			Review HEINEKEN water Good Practices	01/02/24	Review HEINEKEN water Good Practices and develop implementation plan of appropriate initiatives.	
17			Consult HEINEKEN global wastewater specialist	01/08/24	<p>We expect to complete this once we have a baseline of performance established with changes already made (#1 to 4) and to explore other means of reducing concentrations.</p> <p>NOTE: As wastewater volume reduces, concentrations (e.g., BOD) will typically increase.</p>	
18			Checkpoint meetings	By agreement	Meet with Council to review progress on the plan. Frequency to be by mutual agreement.	
19			Annual review	12 months	Perform a review in collaboration with Council in 12 months to agree next steps.	

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 12/02/2023 05:45:00 PM
To: Lauren Mentjox <[REDACTED]>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

I hope you're having a great weekend. I have tried to contact Sean to discuss this so will try again first thing in the morning.

Kind regards,
Lauren

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Sunday, 12 November 2023 11:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 10, 2023 11:48 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Council's viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
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We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Lauren Mentjox <[REDACTED]>
Sent time: 11/12/2023 12:14:25 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

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Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

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Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur [REDACTED]
Sent time: 10/27/2023 11:20:13 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - KCDC Lab Report OCT234446 attached
Attachments: KCDC Lab Report OCT234446.pdf

Hi Tupu,

Enclosed the KCDC Lab Report OCT234446 for Tuatara's Wastewater samples received. An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	OCT 234446
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			20-Oct-23
Collection Time			1:00 PM
Sample site ID			Tuatara
KDCD Laboratory Log Number			234446
Date Received / Analysed			20-Oct-23
Time of arrival to Lab			2:00 PM
	Lab Used	Method	
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	11.0
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.81
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	1006
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	38.5
Total Nitrogen (TN) g/m ³	KCDC	Thermofisher Method ACD007	126
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	11,570
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	6,930
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested

NOTE:

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

26/10/2023



From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 10/20/2023 02:58:16 PM
To: Kim Mazur [REDACTED]
Subject: RE: WW sample

Hi, yeah that's fine. T

From: Kim Mazur [REDACTED]
Sent: Friday, 20 October 2023 1:56 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW sample

Thanks Tupu, processing now. We have to do a COD sorry. This give us the estimate for the dilution for the BOD.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, October 20, 2023 1:04 PM
To: Kim Mazur [REDACTED]
Subject: Re: WW sample

Okay, on the way now. T

Sent from my iPhone

On 20/10/2023, at 12:40, Kim Mazur [REDACTED] wrote:

Hi Tupu, Can you please bring them in earlier if possible. Long Weekend there may not be any staff at the depot to open the gate.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
[REDACTED]
[REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, October 20, 2023 11:40 AM
To: Kim Mazur [REDACTED]
Subject: RE: WW sample

Hi Kim,
Okay my misunderstanding, sorry. Ill drop off todays sample around 3pm. Thanks, Tupu

From: Kim Mazur [REDACTED]
Sent: Friday, 20 October 2023 9:47 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW sample

Hi Tupu,

BOD is down here on site. We don't send anything to Watercare. We do send Fats and Grease to Hills in Hamilton. All of you testing has been conducted thru this Lab. We will set up the BOD today once we received the sample.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, October 20, 2023 9:43 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW sample

Hi Kim,

No its was for you. As part of our KCDC consent conditions we are required to rotate through and take a sample from each day of the week. I am collecting a sample today to test for TSS, TN etc. I understand you send a BOD sample onto Watercare? If this is the case what time will you need to receive the sample from us? I'm also guessing a sample on a Friday is going to prove difficult for you and your team, would this be best managed by us and storing cold over the weekend and dropping off on a Monday? Would this also work for the BOD sample?
Thanks, Tupu

From: Kim Mazur [REDACTED]
Sent: Friday, 20 October 2023 9:29 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW sample

Hi Tupu,

Is this email meant for me at the KCDC Lab or was it for Watercare Lab in Auckland?

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, October 20, 2023 8:00 AM
To: Kim Mazur [REDACTED]
Subject: WW sample

Hi Kim,

Is it possible to get a BOD analysis on a sample collected on a Friday? What time would you need the sample by to get away on the courier? I presume Watercare will still take reception on Saturday morning?
Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

<image002.png>

<image003.jpg>

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From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 10/10/2023 01:27:49 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23
Attachments: image001.jpg

Hi Tupu

Thanks for the update.

We can wait for couple of weeks more, but you need to set a time frame for these actions.

Could you please advise by when you will be completing your facility assessment and capacity upgrade related project scope, etc., determining the onsite treatment quality that will be in the discharge to council network for which we have to prepare.

Looking forward to a plan with timelines set.

Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

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Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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Mobile: [REDACTED]

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From: Kim Mazur [REDACTED]
Sent time: 10/04/2023 04:54:17 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - KCDC Lab Report SEP234082
Attachments: KCDC Lab Report SEP234082.pdf

Hi Tupu,

Enclosed the KCDC Lab Report SEP234082 for Tuatara's Wastewater samples received. An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council



www.kapiticoast.govt.nz

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	SEP 234082
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Collection Date			27-Sep-23	27-Sep-23
Collection Time			8:30	8:30
Sample site ID			WW W/O Solids (A)	WW W Solids (B)
KDCD Laboratory Log Number			234082	234085
Date Received / Analysed			27-Sep-23	27-Sep-23
Time of arrival to Lab			10:30 AM	10:30 AM
	Lab Used	Method		
Temp on arrival to Lab °C	KCDC	Standard Methods 24th Edition 2550 B	14.2	13.9
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	Not Requested	Not Requested
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D	125	1244
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	Not Requested	Not Requested
Total Nitrogen (TN) g/m ³	KCDC	Thermofisher Method ACD007	Not Requested	Not Requested
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	18,120	19,560
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B	8,580	8,670
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested

NOTE: Test not requested but was completed by mistake. Reported at no charge.

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

4/10/2023

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 10/04/2023 09:20:45 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Tess Drewitt <[REDACTED]>; Reuben Mackey <[REDACTED]>; Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: Tuatara Brewery WW update
Attachments: image001.jpg

Hi Tupu

Thanks for sharing the updated improvement plan and the lab report.

It was nice to meet you all and discuss in detail and arrive at an understanding about the requirements of both parties. Much appreciated for the progress made to date.

Further, in my meeting yesterday with our consultant (Stantec), I have briefed him about your proposed capacity and production upgrade and the requirement for a modelling report with required upgrade for both ends.

As discussed, we can wait a couple of weeks more before the trade waste consent to be put in place.

I will wait for the document for your proposed capacity upgrade and the flow characteristics to be discharged/allowed.

Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, October 3, 2023 3:59 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: Tuatara Brewery WW update

Hi Ramesh,
Please find attached a progress report on the Tuatara Brewery Trade Waste Improvement plan. In addition the August sampling results.
Re: Improvement #13. Since the commencement of Yeast and Hop material collection in July 23, results indicate a 25% decrease in TSS and 50% decrease in BOD. Ongoing monitoring will confirm the impact of fermentation sludge material.
Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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the material from any computer.



From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 10/03/2023 03:58:30 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: Tuatara Brewery WW update
Attachments: image001.jpg KCDC Lab Report AUG233521.pdf Tuatara Brewery Trade Waste Improvement Plan 03102023.pdf

Hi Ramesh,

Please find attached a progress report on the Tuatara Brewery Trade Waste Improvement plan. In addition the August sampling results.

Re: Improvement #13. Since the commencement of Yeast and Hop material collection in July 23, results indicate a 25% decrease in TSS and 50% decrease in BOD. Ongoing monitoring will confirm the impact of fermentation sludge material.

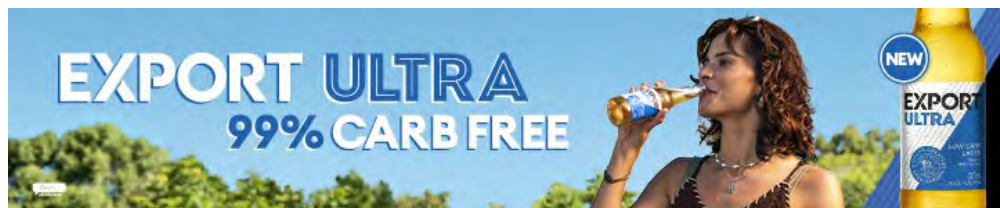
Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	AUG 233521
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Collection Date			21-Aug-23	22-Aug-23	23-Aug-23	24-Aug-23
Collection Time			Not given	Not given	Not given	4:00 PM
KDCD Laboratory Log Number			233521	233562	233563	233599
Date Received / Analysed			22-Aug-23	23-Aug-23	24-Aug-23	25-Aug-23
Time of arrival to Lab			9:15 AM	11:15 AM	8:30 AM	2:30 PM
	Lab Used	Method				
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	9.8	10.9	10.7	13.2
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	6.28	6.01	5.92	6.15
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	449	887.0	685.0	1221.0
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	28.4	32.5	24.84	49.35
Total Nitrogen (TN) g/m ³	KCDC	Thermofisher Method ACD007	110	124	92.0	188.0
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	6400	11630	7360	11630
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	3920	5100	4900	5160
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

6/09/2023

Tuatara Brewery Trade Waste Improvement Plan

Introduction

Tuatara Brewery has worked with the Kāpiti Coast District Council water and wastewater team for several months to collect data on the brewery's wastewater discharge.

Since our meeting in June, we have developed a plan outlining the steps we will take over the next 12 months to improve our wastewater performance. If Council agrees with the actions in this plan, we respectfully ask that Tuatara is granted a dispensation from the Trade Waste Discharge Consent while we undertake improvements.

The draft trade waste consent conditions are estimated to add \$106,000 per year to Tuatara's costs. While we acknowledge and respect the Council's need to move to user-pays system for wastewater treatment, this will unfortunately have a negative effect on our business while we work to implement the changes required to meet the consent conditions.

Tuatara and DB are committed to the Kāpiti Coast community and collaborating with the Kāpiti Coast District Council.

Proposed Improvement Plan

#	Consent Condition	Consent Description	Action	Estimated Completion	Comments
1	Part 1-5	Event Notification	Update Tuatara Spill Response & Emergency Response	Complete	Chemical spill, SOP has been updated and communicated to staff, to notify KCDC and the Fire Service.
2	Part 1-8	Temperature < 40°C	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater >40.0°C
3	Part 1-9; Part 2-11b	pH control & monitoring	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater < 6.0pH or >10pH. pH correction controlled via PLC and dosing pumps & chemicals
4		WWTP pH probe calibration	Monthly pH probe calibrations	Complete	Underway with records available in request
5	Part 1-10	Dry solid matter- > 15mm	Solids control	Complete	All wastewater passes through 1 of 2 macerating pumps before discharge to council system
6	Part 2-2,3,7	Discharge flow rate, volume & hours	Cap discharge pump flow rate	Complete	Flowrate capped at 2.5m ³ /hr, totalling max 30m ³ between 4pm - 4am.
7	Part 2-5c	Wastewater flow meter verification	Calibrate wastewater flow meter	Complete	Certified 30/1/23 with biannual calibrations added to preventative maintenance schedule

8	Part 1-6; Part 2-5b	Wastewater flowmeter data availability	Install Council unit	Complete	Unit installed 04/23. Live online hourly flowmeter rate and volume data available to Council
9	Part 2-12	On-site storage tank	Increase wastewater storage capacity on site from current 15m ³	Complete 2/6/23	Tuatara has purchased and installed 44m ³ additional storage. The increased buffer volume is sufficient to store the seven-day average discharge volume of 28m ³ /day.
10	Part 2-6	Composite sampler	Procure and install composite sampler	Underway Completed 09/23	Awaiting delivery ETA 1/8/23
11	Part 2-2,3	Additional buffer vessel	Procure and install additional storage tank	Underway Under review.	Source additional wastewater storage vessel(s) to buffer a 24hr peak event >45m ³ Additional scope to install buffer and Settling tank to remove solids
12	Part 2-8	Ongoing Monitoring	Monitoring of composite sampler results	Underway Completed 09/23	Awaiting delivery of composite sampler, ETA 1/8/23
13	Part 2-4	Discharge Characteristics: COD <2500g/m ³ , BOD <1000g/m ³ , TN <5g/m ³ , TP <50g/m ³ , TSS <1000g/m ³	Divert yeast and hop material from fermentation away from wastewater.	Underway. Est completion 31/10/23	A two-week intensive wastewater survey in March/April showed high levels of COD/BOD, TN, TSS, in addition to a large volume of wastewater, but consistent with discharge characteristics of similar sized craft breweries. Organic loading mostly arises from three waste streams: Spent grain, spent yeast and trub. At the time of the survey, spent grain had been collected and removed as stock feed. Where practical and possible (due to storage space, odour, haulage), spent yeast can be used as stock feed. To do this, Tuatara has engaged with Grainhub, a stock feed business, to remove yeast and hop slurry. A trial is currently underway to store all yeast collected in July in a holding vessel. Benchmarking shows organic loading can be reduced by 40%, and early sampling results show an 80% reduction in TSS and a 33% reduction in COD. To be confirmed with water sample and testing.

					Please find attached the latest sampling results
14	Part 2-13	Clean in Place (CIP)	Complete feasibility assessment to implement CIP kitchen	6-12 months 01/08/24	This action will examine shifting the brewery to a model to reduce single-use, one-way CIP methodology and chemicals lost to waste. This project would involve significant capital expenditure. We propose to scope and cost the project during the dispensation period examining external supplied and internal options and, subject to an investment decision and capital allocation, complete the project the following budget year.
15	Part 2-13	Solids removal	Investigate additional methods to reduce TSS	+12 months 01/08/24	Investigate the installation of additional storage and collection vessels to settle out TSS through coagulation or flocculation, aided by aluminium sulphate or polymers to assist to precipitate. This would depend on commercial and physical (site area and access) viability
16			Review HEINEKEN water Good Practices	3 to 6 months 01/02/24	Review HEINEKEN water Good Practices and develop implementation plan of appropriate initiatives.
17			Consult HEINEKEN global wastewater specialist	6-12 months 01/08/24	We expect to complete this once we have a baseline of performance established with changes already made (#1 to 4) and to explore other means of reducing concentrations. NOTE: As wastewater volume reduces, concentrations (e.g., BOD) will typically increase.
18			Checkpoint meetings	By agreement	Meet with Council to review progress on the plan. Frequency to be by mutual agreement.
19			Annual review	12 months	Perform a review in collaboration with Council in 12 months to agree next steps.

Background

Tuatara Brewery was established in 2001 and is a proud member of the Kāpiti community. Today we employ 22 full time staff and contribute significantly to the local economy. Tuatara is important to DB as the 'home of craft' and we are committed to continuing to brew in Kāpiti.





From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 09/18/2023 08:14:11 AM
To: Ben Thompson <[REDACTED]>
Subject: Tuatara Discharge
Attachments: image003.jpg image002.png

Morning Ben,

Now that we have some historical data and trending on our WW discharge I would like to propose a change that will assist Tuatara.

From the history below, we can see that we frequently exceed the drafted 30m³ limit for discharge. While we have installed an additional 48m³ of WW storage, the 4pm-4am discharge time is a barrier for us. As these times are largely unmanned, should there be issues or breakdowns overnight we are unable to rectify in a timely manner. The cascading effect is that over the next 2-5 days we have very limited storage capacity often requiring us to discharge during working hours and outside of the 4pm-4am window, and therefore exceed the 30m³ ceiling. I would like to propose one of the following to help us improve our discharge management.

- Midnight-Midnight controlled discharge of 1.25m³/hr. Allows Tuatara staff to monitor discharge for a large portion of the day while minimising any peak and trough flows to the council.
- 6am-6pm controlled discharge of 2.5m³. Again, allows Tuatara staff to monitor discharge and aligns with working production day.

Overall Tuatara is discharging on average 23.9m³/day so with better management we believe we can consistently stay within the 30m³ day to day limit.

Thanks, Tupu

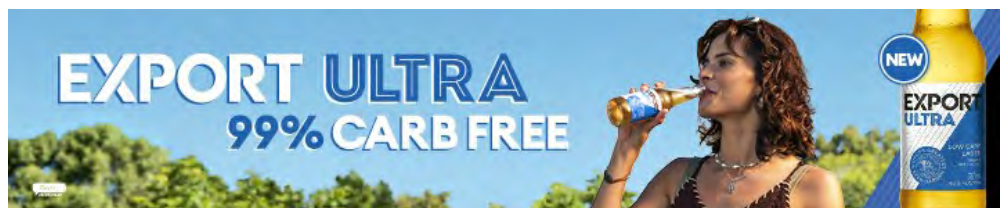
Values		
Date	Daily Wastewater Consent Limit (m3/day)	Daily Wastewater Discharged (m3/day)
18-Aug	30	25.73802778
19-Aug	30	21.87933333
20-Aug	30	2.3
21-Aug	30	19.02480467
22-Aug	30	39.36508908
23-Aug	30	44.21010625
24-Aug	30	37.59375
25-Aug	30	15.10625
26-Aug	30	13.99652778
27-Aug	30	10.30347222
28-Aug	30	1.2
29-Aug	30	44.33733333
30-Aug	30	50.90157133
31-Aug	30	36.56109533
1-Sep	30	31.4
2-Sep	30	28.62861111
3-Sep	30	9.071388889
4-Sep	30	17.9
5-Sep	30	32.81319444
6-Sep	30	29.30138889
7-Sep	30	29.40138889
8-Sep	30	25.20158125
9-Sep	30	15.88244653
10-Sep	30	3.2
11-Sep	30	19.02291667
12-Sep	30	28.40138889
13-Sep	30	22.60208333
14-Sep	30	16.57361111
15-Sep	30	16.3
16-Sep	30	34.99725
17-Sep	30	16.75433333
		739.9689444
		23.86996595

Tupu Gregorv, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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17-Sep	30	16.75433333
		739.9689444
		23.86996595

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 09/07/2023 09:58:51 AM
To: Ben Thompson <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: FW: WW samples - final KCDC Lab Report AUG233521
Attachments: KCDC Lab Report AUG233521.pdf

Hi Ben, Ramesh,
Sharing our latest results representing a Mon-Thur working week. Note, collected prior to pH correction.
Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 6 September 2023 4:28 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - final KCDC Lab Report AUG233521

Hi Tupu,

Enclosed the KCDC Lab Report AUG233521 for Tuatara's Wastewater samples received 21, 22, 23 and 24th Aug 2023. An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
Tel [REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	AUG 233521
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Collection Date			21-Aug-23	22-Aug-23	23-Aug-23	24-Aug-23
Collection Time			Not given	Not given	Not given	4:00 PM
KDCD Laboratory Log Number			233521	233562	233563	233599
Date Received / Analysed			22-Aug-23	23-Aug-23	24-Aug-23	25-Aug-23
Time of arrival to Lab			9:15 AM	11:15 AM	8:30 AM	2:30 PM
	Lab Used	Method				
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	9.8	10.9	10.7	13.2
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	6.28	6.01	5.92	6.15
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Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	28.4	32.5	24.84	49.35
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	110	124	92.0	188.0
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	6400	11630	7360	11630
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	3920	5100	4900	5160
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

6/09/2023

From: Kim Mazur <[REDACTED]>
Sent time: 09/06/2023 04:27:39 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - final KCDC Lab Report AUG233521
Attachments: KCDC Lab Report AUG233521.pdf

Hi Tupu,

Enclosed the KCDC Lab Report AUG233521 for Tuatara's Wastewater samples received 21, 22, 23 and 24th Aug 2023. An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	AUG 233521
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Collection Date			21-Aug-23	22-Aug-23	23-Aug-23	24-Aug-23
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Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

6/09/2023

From: Lauren Mentjox <[REDACTED]>
Sent time: 08/24/2023 09:23:40 AM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Thanks Sean,
Look forward to hearing from you.

Regards,
Lauren

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Friday, 18 August 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu

Sorry for delay in getting back to you [REDACTED]. Thanks for the improvement plan and will get back to you once the team have had a look through the plan.

Cheers

Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 28, 2023 4:12 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Good afternoon Sean,

Over the last few months, a number of us have been working towards the waste water improvement plan for the Tuatara Brewery. Taking into account the Drafted Conditional Trade Waste Consent conditions presented to Tuatara, we have combined a number of good practices, made some investment towards treatment, and received input from numerous brewery colleagues, to present the attached Improvement plan. It is Tuataras aim to action these over the next few months and years to meet our own goals and that of the Kapiti council.

Once again, Tuatara and DB are committed to the Kapiti Coast community and working together with the Council to meet our obligations.

Regards, Tupu Gregory

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu,

Thanks for the update and an extension to your existing Trade Waste arrangement until we have had an opportunity to review your improvement plan and agree on a future course of action is agreed.

Cheers

Sean Mallon

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, 11 June 2023 4:19 pm
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Sean,

Thank you for your time on Wednesday. Lauren and I believe it was a productive discussion on Tuatara Brewery and the role we play in the Kapiti community.

Tuatara Brewery plays an important role for DB as the 'home of craft', which has historically strong links to the Kapiti Coast. As such, DB is committed to the Kapiti Coast and working together with the Council.

In recent months, Tuatara has worked with the Council water and wastewater team to collect data on the brewery's wastewater discharge. As we continue to gather data, primarily production volume and correlating wastewater volume, and ultimately how waste can be mitigated, we respectfully request an extension to our existing Annual Trade Waste Discharge Consent.

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Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairs Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 08/21/2023 09:10:00 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: Tradewaste at Tuatara Breweries Paraparaumu
Attachments: image001.png image002.png image003.png KCDC Lab Report JUL233041.pdf

Morning Ramesh,

We have yet to receive the autosampler, which we ordered in May, so I have been collecting grab samples out of our buffer tank. This should be a reasonable representation of our discharge as it will have been stored and recirculated during the day. I note that the pH has not been corrected in these samples, this only occurs prior to discharge.

I have a couple of days sampling from last month and I will collect some more samples this week and share with you.

Thanks, Tupu

From: Ramesh Pillai
Sent: Friday, 18 August 2023 3:41 pm
To: Tupu Gregory
Subject: Tradewaste at Tuatara Breweries Paraparaumu

Hi Tupu

I wonder if you could share the copy of the latest Lab results - July 2023 and any in Aug 2023.

Thanks.

Ramesh Pillai

Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Laboratory Report No:	JUL 233041
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			19-Jul-23	20-Jul-23
Collection Time			Not given	Not given
KDCD Laboratory Log Number			233041	233055
Date Analysed			19-Jul-23	20-Jul-23
	Lab Used	Method		
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	10.7	18.7
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.82	5.04
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	556.6	667.0
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	19.0	16.2
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	110	83.0
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	11410	8570
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	5265	4178
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

26/07/2023





Mānawatia
a Matariki

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent time: 08/18/2023 03:40:44 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
BCc: Kim Mazur <[REDACTED]>; Tess Drewitt <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>
Subject: Tradewaste at Tuatara Breweries Paraparaumu
Attachments: image001.png image002.png image003.png

Hi Tupu

I wonder if you could share the copy of the latest Lab results – July 2023 and any in Aug 2023.

Thanks.

Ramesh Pillai

Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Tel 04 2964 731
Mobile 027 555 4870



www.kapiticoast.govt.nz



Mānawatia
a Matariki





Mānawatia
a Matariki



From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent time: 08/18/2023 09:03:46 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Hi Tupu

Sorry for delay in getting back to you [REDACTED]. Thanks for the improvement plan and will get back to you once the team have had a look through the plan.

Cheers

Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 28, 2023 4:12 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Good afternoon Sean,

Over the last few months, a number of us have been working towards the waste water improvement plan for the Tuatara Brewery. Taking into account the Drafted Conditional Trade Waste Consent conditions presented to Tuatara, we have combined a number of good practices, made some investment towards treatment, and received input from numerous brewery colleagues, to present the attached Improvement plan. It is Tuataras aim to action these over the next few months and years to meet our own goals and that of the Kapiti council.

Once again, Tuatara and DB are committed to the Kapiti Coast community and working together with the Council to meet our obligations.

Regards, Tupu Gregory

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu,

Thanks for the update and an extension to your existing Trade Waste arrangement until we have had an opportunity to review your improvement plan and agree on a future course of action is agreed.

Cheers

Sean Mallon
Group Manager Infrastructure Services
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Tel 04 296 4690
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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, 11 June 2023 4:19 pm
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>

Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Sean,

Thank you for your time on Wednesday. Lauren and I believe it was a productive discussion on Tuatara Brewery and the role we play in the Kapiti community.

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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

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Sent time: 07/28/2023 04:11:47 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg Kapiti District Council Trade Waste Improvement Plan.pdf

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Tupu Gregorv, Brewerv Manager - Tuatara & Redwood, DB Breweries Ltd.

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Tuatara Brewery Trade Waste Improvement Plan

Introduction

Tuatara Brewery has worked with the Kāpiti Coast District Council water and wastewater team for several months to collect data on the brewery's wastewater discharge.

Since our meeting in June, we have developed a plan outlining the steps we will take over the next 12 months to improve our wastewater performance. If Council agrees with the actions in this plan, we respectfully ask that Tuatara is granted a dispensation from the Trade Waste Discharge Consent while we undertake improvements.

The draft trade waste consent conditions are estimated to add \$106,000 per year to Tuatara's costs. While we acknowledge and respect the Council's need to move to user-pays system for wastewater treatment, this will unfortunately have a negative effect on our business while we work to implement the changes required to meet the consent conditions.

Tuatara and DB are committed to the Kāpiti Coast community and collaborating with the Kāpiti Coast District Council.

Proposed Improvement Plan

#	Consent Condition	Consent Description	Action	Estimated Completion	Comments
1	Part 1-5	Event Notification	Update Tuatara Spill Response & Emergency Response	Complete	Chemical spill, SOP has been updated and communicated to staff, to notify KCDC and the Fire Service.
2	Part 1-8	Temperature < 40°C	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater >40.0°C
3	Part 1-9; Part 2-11b	pH control & monitoring	PLC monitoring and control	Complete	Discharge PLC monitored & controlled, prohibited if wastewater < 6.0pH or >10pH. pH correction controlled via PLC and dosing pumps & chemicals
4		WWTP pH probe calibration	Monthly pH probe calibrations	Complete	Underway with records available in request
5	Part 1-10	Dry solid matter- > 15mm	Solids control	Complete	All wastewater passes through 1 of 2 macerating pumps before discharge to council system
6	Part 2-2,3,7	Discharge flow rate, volume & hours	Cap discharge pump flow rate	Complete	Flowrate capped at 2.5m ³ /hr, totalling max 30m ³ between 4pm - 4am.
7	Part 2-5c	Wastewater flow meter verification	Calibrate wastewater flow meter	Complete	Certified 30/1/23 with biannual calibrations added to preventative maintenance schedule



8	Part 1-6; Part 2-5b	Wastewater flowmeter data availability	Install Council unit	Complete	Unit installed 04/23. Live online hourly flowmeter rate and volume data available to Council
9	Part 2-12	On-site storage tank	Increase wastewater storage capacity on site from current 15m ³	Complete 2/6/23	Tuatara has purchased and installed 44m ³ additional storage. The increased buffer volume is sufficient to store the seven-day average discharge volume of 28m ³ /day.
10	Part 2-6	Composite sampler	Procure and install composite sampler	Underway	Awaiting delivery ETA 1/8/23
11	Part 2-2,3	Additional buffer vessel	Procure and install additional storage tank	Underway	Source additional wastewater storage vessel(s) to buffer a 24hr peak event >45m ³
12	Part 2-8	Ongoing Monitoring	Monitoring of composite sampler results	Underway	Awaiting delivery of composite sampler, ETA 1/8/23
13	Part 2-4	Discharge Characteristics: COD <2500g/m ³ , BOD <1000g/m ³ , TN <5g/m ³ , TP <50g/m ³ , TSS <1000g/m ³	Divert yeast and hop material from fermentation away from wastewater.	Underway	A two-week intensive wastewater survey in March/April showed high levels of COD/BOD, TN, TSS, in addition to a large volume of wastewater, but consistent with discharge characteristics of similar sized craft breweries. Organic loading mostly arises from three waste streams: Spent grain, spent yeast and trub. At the time of the survey, spent grain had been collected and removed as stock feed. Where practical and possible (due to storage space, odour, haulage), spent yeast can be used as stock feed. To do this, Tuatara has engaged with Grainhub, a stock feed business, to remove yeast and hop slurry. A trial is currently underway to store all yeast collected in July in a holding vessel. Benchmarking shows organic loading can be reduced by 40%, and early sampling results show an 80% reduction in TSS and a 33% reduction in COD. To be confirmed with water sample and testing.



14	Part 2-13	Clean in Place (CIP)	Complete feasibility assessment to implement CIP kitchen	6-12 months	This action will examine shifting the brewery to a model to reduce single-use, one-way CIP methodology and chemicals lost to waste. This project would involve significant capital expenditure. We propose to scope and cost the project during the dispensation period examining external supplied and internal options and, subject to an investment decision and capital allocation, complete the project the following budget year.
15	Part 2-13	Solids removal	Investigate additional methods to reduce TSS	+12 months	Investigate the installation of additional storage and collection vessels to settle out TSS through coagulation or flocculation, aided by aluminium sulphate or polymers to assist to precipitate. This would depend on commercial and physical (site area and access) viability
16			Review HEINEKEN water Good Practices	3 to 6 months	Review HEINEKEN water Good Practices and develop implementation plan of appropriate initiatives.
17			Consult HEINEKEN global wastewater specialist	6-12 months	We expect to complete this once we have a baseline of performance established with changes already made (#1 to 4) and to explore other means of reducing concentrations. NOTE: As wastewater volume reduces, concentrations (e.g., BOD) will typically increase.
18			Checkpoint meetings	By agreement	Meet with Council to review progress on the plan. Frequency to be by mutual agreement.
19			Annual review	12 months	Perform a review in collaboration with Council in 12 months to agree next steps.

Background

Tuatara Brewery was established in 2001 and is a proud member of the Kāpiti community. Today we employ 22 full time staff and contribute significantly to the local economy. Tuatara is important to DB as the 'home of craft' and we are committed to continuing to brew in Kāpiti.



We use water throughout our supply chain, from growing crops to our finished product. Beer is 95% water, so it is a critical resource for our business. DB and Tuatara approach water resource protection by working to reduce water consumption in our production facilities using global best practices. Second, all wastewater discharged into the environment needs to be treated by a wastewater treatment before being discharged. In New Zealand, two DB production sites (one of which is Tuatara) rely on municipal treatment facilities and two involve onsite wastewater treatment.

In terms of committing to the above principles, DB has made a significant investment in a wastewater treatment plant at the DB Draught Brewery in Timaru to preserve local downstream catchment water quality. We expect this to be operational in late 2023.

Recent Water Saving Initiatives at Tuatara

In the last two years, we have implemented the following water saving measures at Tuatara:

1. Automated wort cooling process. Installed a second wort cooling heat exchanger to increase heat recovery capacity for reuse as process hot water.
2. Automated wort cooling process to limit potable water usage while maintaining heat recovery and reducing refrigeration loading.
3. Moved to an efficient production model with condensed operational days saving on startup/shutdown water loss between production runs.
4. Installed control valves on Tunnel pasteuriser water infeed to eliminate overfilling through compartments.
5. These, along with continual reviews, updating and retraining of SOPs has delivered water saving of 8.81hL/hL water:beer in 2021, to 7.52hL/hL in 2022 and currently tracking at 7.19hL/hL YTD 2023, which compares favourably to the Brewers' Association benchmarks.

DB Sustainability Objectives

As a signatory to the Climate Leaders Coalition, DB has bold sustainability targets set against ambitious timelines to ensure environmental, social, and responsible sustainability across all its operations. Our path to zero environmental impact is based on reaching net zero carbon, maximising circularity and environmental stewardship.

The DB water conservation and circularity programme is based on reducing the average water take across all our production sites, balancing 100% of consumed water volume by 2030 and treating all wastewater before returning it to the environment. We are looking forward to having our DB Draught wastewater treatment plant commissioned later this year as a major step in bringing this to life.

With respect to our carbon footprint DB is committed to gross emissions reductions as a priority. We have not bought any carbon offsets and consider them an option of last resort. In 2022 DB achieved 49.6% reduction in scope 1 and 2 carbon emissions vs 2018 baseline (verified by Toitu Enviromark) and is on track to reach our 50% interim target in 2025 and net zero by 2030.

Regards,



Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile:



1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

From: Kim Mazur <[REDACTED]>
Sent time: 07/26/2023 12:01:10 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples - final KCDC Lab Report JUL233041
Attachments: KCDC Lab Report JUL233041.pdf image004.jpg image002.png

Hi Tupu,

Enclosed is your final KCDC Lab Report JUL233041 for Tuatara's Wastewater samples received 19 and 20 Jul 2023. An invoice for this work will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Kim Mazur
Sent: Friday, July 21, 2023 2:33 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

Enclosed is the Interim report as requested. The final report will be sent out once the BOD have finished incubating.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 21, 2023 10:47 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

Are you able to send through the preliminary results from the samples dropped off on Wed and Thur. Just wanted to get some indicative data, even if missing the BOD.

Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 19 July 2023 10:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

We have received your sample. There should be enough to run all of the tests listed. I let you know if we have any issues.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Wednesday, July 19, 2023 9:30 AM

To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

Morning Kim,

I have just dropped off another sample to your outside refrigerator.

If you could run a full sweep of tests that would be great. I would expect the COD to be around that 5000 range but no promises.

And hope the sample size is large enough to cover all the tests?

Thanks, Tupu

From: Kim Mazur <[REDACTED]>

Sent: Thursday, 29 June 2023 4:29 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Hi Tupu,

Enclosed is the KCDC Lab Report JUN231516 for the COD on the sample received 16 June 2023. We did not do the BOD on this sample as we were awaiting the arrival of the other samples mention below in your email.

An invoice for this test will follow in due course.

Kind regards

Kim Mazur

Laboratory Manager

Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, June 16, 2023 2:51 PM

To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

Hi Kim,

If you can be bothered this late on a Friday, then go ahead and do the BOD.

Ill be bringing in a few more samples next week so we can always catch up on BOD sampling then.

Cheers, Tupu

From: Kim Mazur <[REDACTED]>

Sent: Friday, 16 June 2023 1:26 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Hi Tupu,

We received the sample from you. I see COD is written on the bottle. We will measure this today. Do you still want us to test the BOD once we have the COD result. Both are different parameters. COD chemical oxygen demand, BOD Biological oxygen demand. COD does give us an indication on the dilution required to do the BOD test, as mentioned to you in the past email. Both parameters are needed for load assessments on Waste water plants.

Please let me know as we can start the BOD testing today also. Remember BOD takes 5 days before we have a result.

Thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 1:08 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
That's fine. Address for drop off? Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 12:41 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

Would you mind if we did a COD first. This gives us an indication on of the dilution required otherwise we will end up having to retest the sample and re dilute. BOD takes 5 days to get an answer, so if we have to redilute the samples you will be waiting a further 5 days. COD incubation take 2 hours.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 10:38 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
Ill just test BOD, as an indicator. If I get on top of that everything else should fall into line. Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 8:59 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 8:15 AM

To: Kim Mazur <[REDACTED]>

Subject: WW samples

Hi Kim,

Would it be okay if I started bringing in some samples for testing? We have done some work on our waste and am wanting to see what impact it has had on our discharge.

Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Laboratory Report No:	JUL 233041
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			19-Jul-23	20-Jul-23
Collection Time			Not given	Not given
KDCD Laboratory Log Number			233041	233055
Date Analysed			19-Jul-23	20-Jul-23
	Lab Used	Method		
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	10.7	18.7
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.82	5.04
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	556.6	667.0
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	19.0	16.2
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	110	83.0
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	11410	8570
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	5265	4178
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

26/07/2023

From: Reuben Mackey <[REDACTED]>
Sent time: 07/25/2023 08:56:36 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Tuatara Wastewater discharge 25/07
Attachments: image001.jpg

Hi Tupu,

Yes Hayden just called me.

Thank you for informing me.

Regards

Reuben Mackey
Wastewater Treatment Plants Supervisor
Te Kaiarahi Whakapai Wai

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Tuesday, July 25, 2023 8:51 AM
To: Reuben Mackey <[REDACTED]>
Cc: Hayden Dudek <[REDACTED]>
Subject: FW: Tuatara Wastewater discharge 25/07

Hi Reuben,

Looks as if Grant is enjoying some time away from work. Just making you aware of our discharge today which sits outside of the normal 4pm-4am discharge window.

Thanks, Tupu

From: Tupu Gregory
Sent: Tuesday, 25 July 2023 8:12 am
To: Grant Stuart <[REDACTED]>
Cc: Hayden Dudek <[REDACTED]>
Subject: Tuatara Wastewater discharge 25/07

Morning Grant,

In early June Tuatara purchased and installed two x 22m³ wastewater buffer vessels. These have been commissioned and since been operating reasonably well and allowing Tuatara to store waste during operating hours and discharging from 4pm onwards. This morning we have discovered an unknown fault where no discharge was release last night. We are investigating. As our buffer vessels are now full, we are having to run a controlled release from 7am this morning. I have capped the release at 2.5m³/hr.

In addition to the storage vessels, we are now collecting yeast waste separately and disposing of as stockfeed. Yeast was our main contributor to BOD and TSS. I had Kim test a few samples last week with a COD of 11,000 and 8,000g/m³, which is significantly below the 28K g/m³ peak loading prior to collection.

Feel free to give Hayden or myself a call if you wish to discuss. Thanks for your understanding, Cheers, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 07/25/2023 08:51:09 AM
To: Reuben Mackey <[REDACTED]>
Cc: hayden dudek <[REDACTED]>
Subject: FW: Tuatara Wastewater discharge 25/07
Attachments: image001.jpg

Hi Reuben,

Looks as if Grant is enjoying some time away from work. Just making you aware of our discharge today which sits outside of the normal 4pm-4am discharge window.

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From: Kim Mazur <[REDACTED]>
Sent time: 07/21/2023 02:32:47 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: KCDC Interim report Tuatara Brewery.pdf image001.jpg image002.png

Hi Tupu,

Enclosed is the Interim report as requested. The final report will be sent out once the BOD have finished incubating.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, July 21, 2023 10:47 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

Are you able to send through the preliminary results from the samples dropped off on Wed and Thur. Just wanted to get some indicative data, even if missing the BOD.

Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 19 July 2023 10:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

We have received your sample. There should be enough to run all of the tests listed. I let you know if we have any issues.

Cheers

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Te Kaiwhakahaere Pūtaiao

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Mobile [REDACTED]

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If you could run a full sweep of tests that would be great. I would expect the COD to be around that 5000 range but no promises.

And hope the sample size is large enough to cover all the tests?

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From: Kim Mazur <[REDACTED]>
Sent: Thursday, 29 June 2023 4:29 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Hi Tupu,

Enclosed is the KCDC Lab Report JUN231516 for the COD on the sample received 16 June 2023. We did not do the BOD on this sample as we were awaiting the arrival of the other samples mention below in your email.

An invoice for this test will follow in due course.

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Tel [REDACTED]

Mobile [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, June 16, 2023 2:51 PM

To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

Hi Kim,

If you can be bothered this late on a Friday, then go ahead and do the BOD.

I'll be bringing in a few more samples next week so we can always catch up on BOD sampling then.

Cheers, Tupu

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Subject: RE: WW samples

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Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

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Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

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To: Kim Mazur <[REDACTED]>

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Laboratory Report No:	JUL Interim Report
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			19-Jul-23	20-Jul-23
Collection Time			Not given	Not given
KDCD Laboratory Log Number			233041	233055
Date Analysed			19-Jul-23	20-Jul-23
	Lab Used	Method		
Temp on arrival to Lab°C	KCDC	Standard Methods 24th Edition 2550 B	10.7	18.7
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	5.82	5.04
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	556.6	667.0
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Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	110	83.0
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	11410	8570
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	Incubating	Incubating
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Requested	Not Requested

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

21/07/2023

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 07/21/2023 10:46:46 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples
Attachments: image003.png image004.jpg

Hi Kim,

Are you able to send through the preliminary results from the samples dropped off on Wed and Thur. Just wanted to get some indicative data, even if missing the BOD.

Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 19 July 2023 10:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

We have received your sample. There should be enough to run all of the tests listed. I let you know if we have any issues.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

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Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
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To: Kim Mazur <[REDACTED]>
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Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
Tel [REDACTED]
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www.kapiticoast.govt.nz

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To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

Hi Kim,

I'll just test BOD, as an indicator. If I get on top of that everything else should fall into line. Thanks, Tupu

From: Kim Mazur <[REDACTED]>

Sent: Thursday, 15 June 2023 8:59 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur

Laboratory Manager

Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 8:15 AM

To: Kim Mazur <[REDACTED]>

Subject: WW samples

Hi Kim,

Would it be okay if I started bringing in some samples for testing? We have done some work on our waste and am wanting to see what impact it has had on our discharge.

Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur <[REDACTED]>
Sent time: 07/19/2023 10:48:47 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image002.jpg image001.png

Morning Tupu,

We have received your sample. There should be enough to run all of the tests listed. I let you know if we have any issues.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Wednesday, July 19, 2023 9:30 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Morning Kim,

I have just dropped off another sample to your outside refrigerator.

If you could run a full sweep of tests that would be great. I would expect the COD to be around that 5000 range but no promises.

And hope the sample size is large enough to cover all the tests?

Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 29 June 2023 4:29 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

Enclosed is the KCDC Lab Report JUN231516 for the COD on the sample received 16 June 2023. We did not do the BOD on this sample as we were awaiting the arrival of the other samples mention below in your email.

An invoice for this test will follow in due course.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, June 16, 2023 2:51 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

If you can be bothered this late on a Friday, then go ahead and do the BOD.

I'll be bringing in a few more samples next week so we can always catch up on BOD sampling then.

Cheers, Tupu

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To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

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Please let me know as we can start the BOD testing today also. Remember BOD takes 5 days before we have a result.

Thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
Tel [REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 1:08 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
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From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 12:41 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

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Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council
Tel [REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 10:38 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

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Subject: RE: WW samples

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Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

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Mobile [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 8:15 AM

To: Kim Mazur <[REDACTED]>

Subject: WW samples

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 07/19/2023 09:29:32 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples
Attachments: image003.png image004.jpg

Morning Kim,
I have just dropped off another sample to your outside refrigerator.
If you could run a full sweep of tests that would be great. I would expect the COD to be around that 5000 range but no promises.
And hope the sample size is large enough to cover all the tests?
Thanks, Tupu

From: Kim Mazur <[REDACTED]>
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Hi Tupu,

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Kind regards

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Te Kaiwhakahaere Pūtaiao

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Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, June 16, 2023 2:51 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
If you can be bothered this late on a Friday, then go ahead and do the BOD.
Ill be bringing in a few more samples next week so we can always catch up on BOD sampling then.
Cheers, Tupu

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Subject: RE: WW samples

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Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

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Sent: Thursday, June 15, 2023 1:08 PM

To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

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From: Kim Mazur <[REDACTED]>

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Subject: RE: WW samples

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Laboratory Manager

Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 10:38 AM

To: Kim Mazur <[REDACTED]>

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Tel [REDACTED]

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Thanks, Tupu

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Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 07/04/2023 08:25:00 AM
To: Ben Thompson <[REDACTED]>
Subject: FW: Daily demand - 2023-07-03
Attachments: Daily demand - 2023-07-03.xlsx

Hi Ben,
Looks like I am getting these regularly at 7am each morning, thanks for sorting. Cheers, Tupu

-----Original Message-----

From: WaterOutlook Kapiti Coast
Sent: Tuesday, 4 July 2023 7:01 am
To: Tupu Gregory
Subject: Daily demand - 2023-07-03

Report: Daily demand
Description: Highlights Tuatara hourly consumption and discharge
Type: Daily (By Hour)
Start Date: 3/07/2023
Generated: 4/07/2023 7:00 am

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From: Ben Thompson <[REDACTED]>
Sent time: 06/30/2023 11:53:50 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: Daily demand - 2023-06-30
Attachments: Daily demand - 2023-06-30.xlsx

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

Kāpiti Coast District Council

[REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

-----Original Message-----

From: WaterOutlook Kapiti Coast
Sent: Friday, June 30, 2023 11:52 AM
To: Ben Thompson
Subject: Daily demand - 2023-06-30

Report: Daily demand
Description: Highlights Tuatara hourly consumption and discharge
Type: Daily (By Hour)
Start Date: 30/06/2023
Generated: 30/06/2023 11:52 am

From: Kim Mazur <[REDACTED]>
Sent time: 06/29/2023 04:28:45 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image002.jpg KCDC Lab Report JUN232516.pdf image001.png

Hi Tupu,

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Kim Mazur
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Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

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Tel [REDACTED]

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Mobile: [REDACTED]
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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Laboratory Report No:	JUN 232516
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	

Sample Collection Date			16-Jun-23
Time of Arrival at the KCDC Lab			Not given
KDCD Laboratory Log Number			232516
	Lab Used	Method	
Temp on arrival to Lab ^o C	KCDC	Standard Methods 24th Edition 2550 B	11.6
pH	KCDC	Standard Methods 24th Edition 4500-H ⁺ B	Not Analysed
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 24th Edition 2540 D.	Not Analysed
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	Not Analysed
Total Nitrogen (TN) g/m ³	KCDC	Thermofisher Method ACD007	Not Analysed
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	5012
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 24th Edition 5210 B.	Not Analysed
Fats, Oil and Grease (FOG)	Hills	See Hills Report	Not Analysed

Samples were analysed as received. The laboratory had no control over the conditions of collection of the sample.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

Reported by:

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

DATE:

26/06/2023

From: Ben Thompson <[REDACTED]>
Sent time: 06/22/2023 12:22:52 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Here is today - and think addressed issue
Attachments: Daily demand - 2023-06-22.xlsx

Hi Tupu,

Here is today's report.

I think it should arrive tomorrow

From: Ben Thompson <[REDACTED]>
Sent time: 06/21/2023 11:51:50 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Daily report
Attachments: Tuatara Daily demand - 2023-06-20.xlsx image001.png image002.png

Does it meet your requirements?

- You have a table showing hourly data for last 31 days.
- The most recent data will be at the bottom.
- The pivot table provides daily data (total and max hourly)
- The graph shows daily and max daily
- You should be getting this daily, let me know if you get it (9am ish)
- Anything missed?

Tupu, you have access to seven days of data on the local plc but no access to data further back correct? Ie you don't have an historian.

Something that would be helpful for us is to have access to any chemical data you have on the effluent leaving your site, such as pH.

Do you export this data anywhere, or is something we could look at sending to LORA network (same as the current flow data).

Happy to discuss further if you are interested.

Ben Thompson
Water Conservation and Tradewaste Officer
Te Āpiha Tiaki Wai me te Whakawhiti Para

[REDACTED]
Mobile [REDACTED]



www.kapiticoast.govt.nz









Date	Time	Date/Time	Water Consump	Wastewater Di	Wastewater Consent Limit
21/05/2023	12:00:00 AM	21/05/2023 00:00:00	0.00	0	30
21/05/2023	1:00:00 AM	21/05/2023 01:00:00	0.00	0.00	30
21/05/2023	2:00:00 AM	21/05/2023 02:00:00	0.00	0.00	30
21/05/2023	3:00:00 AM	21/05/2023 03:00:00	0.00	0.00	30
21/05/2023	4:00:00 AM	21/05/2023 04:00:00	0.00	0.00	30
21/05/2023	5:00:00 AM	21/05/2023 05:00:00	0.00	0.00	30
21/05/2023	6:00:00 AM	21/05/2023 06:00:00	0.00	0.00	30
21/05/2023	7:00:00 AM	21/05/2023 07:00:00	0.00	0.00	30
21/05/2023	8:00:00 AM	21/05/2023 08:00:00	0.00	0.00	30
21/05/2023	9:00:00 AM	21/05/2023 09:00:00	0.00	0.00	30
21/05/2023	10:00:00 AM	21/05/2023 10:00:00	0.01	0.00	30
21/05/2023	11:00:00 AM	21/05/2023 11:00:00	0.03	0.00	30
21/05/2023	12:00:00 PM	21/05/2023 12:00:00	0.07	0.00	30
21/05/2023	1:00:00 PM	21/05/2023 13:00:00	0.13	0.00	30
21/05/2023	2:00:00 PM	21/05/2023 14:00:00	0.07	0.00	30
21/05/2023	3:00:00 PM	21/05/2023 15:00:00	0.05	0.00	30
21/05/2023	4:00:00 PM	21/05/2023 16:00:00	0.06	0.00	30
21/05/2023	5:00:00 PM	21/05/2023 17:00:00	0.10	0.00	30
21/05/2023	6:00:00 PM	21/05/2023 18:00:00	0.10	0.00	30
21/05/2023	7:00:00 PM	21/05/2023 19:00:00	0.06	0.00	30
21/05/2023	8:00:00 PM	21/05/2023 20:00:00	0.03	0.00	30
21/05/2023	9:00:00 PM	21/05/2023 21:00:00	0.00	0.00	30
21/05/2023	10:00:00 PM	21/05/2023 22:00:00	0.00	0.00	30
21/05/2023	11:00:00 PM	21/05/2023 23:00:00	0.00	0.00	30
22/05/2023	12:00:00 AM	22/05/2023 00:00:00	0.00	0.00	30
22/05/2023	1:00:00 AM	22/05/2023 01:00:00	0.00	0.00	30
22/05/2023	2:00:00 AM	22/05/2023 02:00:00	0.33	0.29	30
22/05/2023	3:00:00 AM	22/05/2023 03:00:00	0.72	0.96	30
22/05/2023	4:00:00 AM	22/05/2023 04:00:00	0.01	0.55	30
22/05/2023	5:00:00 AM	22/05/2023 05:00:00	0.18	1.21	30
22/05/2023	6:00:00 AM	22/05/2023 06:00:00	1.57	1.29	30
22/05/2023	7:00:00 AM	22/05/2023 07:00:00	4.34	3.01	30
22/05/2023	8:00:00 AM	22/05/2023 08:00:00	4.10	3.55	30
22/05/2023	9:00:00 AM	22/05/2023 09:00:00	2.16	2.30	30
22/05/2023	10:00:00 AM	22/05/2023 10:00:00	4.04	4.02	30
22/05/2023	11:00:00 AM	22/05/2023 11:00:00	4.25	4.17	30
22/05/2023	12:00:00 PM	22/05/2023 12:00:00	5.09	4.70	30
22/05/2023	1:00:00 PM	22/05/2023 13:00:00	4.29	3.15	30
22/05/2023	2:00:00 PM	22/05/2023 14:00:00	1.48	1.37	30



22/05/2023	3:00:00 PM	22/05/2023 15:00:00	1.37	0.63	30
22/05/2023	4:00:00 PM	22/05/2023 16:00:00	5.61	2.37	30
22/05/2023	5:00:00 PM	22/05/2023 17:00:00	6.88	2.83	30
22/05/2023	6:00:00 PM	22/05/2023 18:00:00	0.00	0.80	30
22/05/2023	7:00:00 PM	22/05/2023 19:00:00	0.00	0.00	30
22/05/2023	8:00:00 PM	22/05/2023 20:00:00	0.00	0.00	30
22/05/2023	9:00:00 PM	22/05/2023 21:00:00	0.00	0.00	30
22/05/2023	10:00:00 PM	22/05/2023 22:00:00	0.00	0.00	30
22/05/2023	11:00:00 PM	22/05/2023 23:00:00	0.00	0.00	30
23/05/2023	12:00:00 AM	23/05/2023 00:00:00	0.30	0.00	30
23/05/2023	1:00:00 AM	23/05/2023 01:00:00	0.65	0.00	30
23/05/2023	2:00:00 AM	23/05/2023 02:00:00	0.00	0.00	30
23/05/2023	3:00:00 AM	23/05/2023 03:00:00	0.00	0.00	30
23/05/2023	4:00:00 AM	23/05/2023 04:00:00	0.00	0.00	30
23/05/2023	5:00:00 AM	23/05/2023 05:00:00	0.00	0.00	30
23/05/2023	6:00:00 AM	23/05/2023 06:00:00	0.01	0.00	30
23/05/2023	7:00:00 AM	23/05/2023 07:00:00	1.20	1.16	30
23/05/2023	8:00:00 AM	23/05/2023 08:00:00	2.92	2.69	30
23/05/2023	9:00:00 AM	23/05/2023 09:00:00	1.41	1.35	30
23/05/2023	10:00:00 AM	23/05/2023 10:00:00	1.30	0.00	30
23/05/2023	11:00:00 AM	23/05/2023 11:00:00	0.28	1.04	30
23/05/2023	12:00:00 PM	23/05/2023 12:00:00	0.36	1.97	30
23/05/2023	1:00:00 PM	23/05/2023 13:00:00	0.94	1.23	30
23/05/2023	2:00:00 PM	23/05/2023 14:00:00	1.99	0.37	30
23/05/2023	3:00:00 PM	23/05/2023 15:00:00	0.29	0.26	30
23/05/2023	4:00:00 PM	23/05/2023 16:00:00	0.00	0.13	30
23/05/2023	5:00:00 PM	23/05/2023 17:00:00	0.00	0.00	30
23/05/2023	6:00:00 PM	23/05/2023 18:00:00	0.00	0.00	30
23/05/2023	7:00:00 PM	23/05/2023 19:00:00	0.00	0.00	30
23/05/2023	8:00:00 PM	23/05/2023 20:00:00	0.00	0.00	30
23/05/2023	9:00:00 PM	23/05/2023 21:00:00	0.00	0.00	30
23/05/2023	10:00:00 PM	23/05/2023 22:00:00	0.00	0.00	30
23/05/2023	11:00:00 PM	23/05/2023 23:00:00	0.00	0.00	30
24/05/2023	12:00:00 AM	24/05/2023 00:00:00	0.00	0.00	30
24/05/2023	1:00:00 AM	24/05/2023 01:00:00	0.00	0.00	30
24/05/2023	2:00:00 AM	24/05/2023 02:00:00	0.00	0.00	30
24/05/2023	3:00:00 AM	24/05/2023 03:00:00	0.00	0.00	30
24/05/2023	4:00:00 AM	24/05/2023 04:00:00	0.15	0.93	30
24/05/2023	5:00:00 AM	24/05/2023 05:00:00	0.68	1.20	30
24/05/2023	6:00:00 AM	24/05/2023 06:00:00	1.33	1.77	30
24/05/2023	7:00:00 AM	24/05/2023 07:00:00	1.52	2.98	30
24/05/2023	8:00:00 AM	24/05/2023 08:00:00	1.94	4.09	30
24/05/2023	9:00:00 AM	24/05/2023 09:00:00	3.79	4.43	30
24/05/2023	10:00:00 AM	24/05/2023 10:00:00	4.64	1.81	30



24/05/2023	11:00:00 AM	24/05/2023 11:00:00	6.21	4.98	30
24/05/2023	12:00:00 PM	24/05/2023 12:00:00	8.28	6.98	30
24/05/2023	1:00:00 PM	24/05/2023 13:00:00	7.06	5.63	30
24/05/2023	2:00:00 PM	24/05/2023 14:00:00	7.38	4.86	30
24/05/2023	3:00:00 PM	24/05/2023 15:00:00	6.46	5.04	30
24/05/2023	4:00:00 PM	24/05/2023 16:00:00	0.07	4.75	30
24/05/2023	5:00:00 PM	24/05/2023 17:00:00	0.00	1.77	30
24/05/2023	6:00:00 PM	24/05/2023 18:00:00	0.00	0.00	30
24/05/2023	7:00:00 PM	24/05/2023 19:00:00	0.00	0.00	30
24/05/2023	8:00:00 PM	24/05/2023 20:00:00	0.00	0.00	30
24/05/2023	9:00:00 PM	24/05/2023 21:00:00	0.00	0.00	30
24/05/2023	10:00:00 PM	24/05/2023 22:00:00	0.00	0.00	30
24/05/2023	11:00:00 PM	24/05/2023 23:00:00	0.00	0.00	30
25/05/2023	12:00:00 AM	25/05/2023 00:00:00	0.00	0.00	30
25/05/2023	1:00:00 AM	25/05/2023 01:00:00	0.00	0.00	30
25/05/2023	2:00:00 AM	25/05/2023 02:00:00	0.33	0.00	30
25/05/2023	3:00:00 AM	25/05/2023 03:00:00	0.72	0.00	30
25/05/2023	4:00:00 AM	25/05/2023 04:00:00	0.00	0.00	30
25/05/2023	5:00:00 AM	25/05/2023 05:00:00	0.09	1.10	30
25/05/2023	6:00:00 AM	25/05/2023 06:00:00	1.35	1.20	30
25/05/2023	7:00:00 AM	25/05/2023 07:00:00	3.52	2.96	30
25/05/2023	8:00:00 AM	25/05/2023 08:00:00	4.05	3.33	30
25/05/2023	9:00:00 AM	25/05/2023 09:00:00	5.76	3.50	30
25/05/2023	10:00:00 AM	25/05/2023 10:00:00	7.06	5.34	30
25/05/2023	11:00:00 AM	25/05/2023 11:00:00	8.72	6.68	30
25/05/2023	12:00:00 PM	25/05/2023 12:00:00	7.17	5.88	30
25/05/2023	1:00:00 PM	25/05/2023 13:00:00	8.32	5.64	30
25/05/2023	2:00:00 PM	25/05/2023 14:00:00	8.95	6.10	30
25/05/2023	3:00:00 PM	25/05/2023 15:00:00	8.02	5.69	30
25/05/2023	4:00:00 PM	25/05/2023 16:00:00	0.25	3.08	30
25/05/2023	5:00:00 PM	25/05/2023 17:00:00	0.06	0.59	30
25/05/2023	6:00:00 PM	25/05/2023 18:00:00	0.06	0.00	30
25/05/2023	7:00:00 PM	25/05/2023 19:00:00	0.05	0.00	30
25/05/2023	8:00:00 PM	25/05/2023 20:00:00	0.08	0.00	30
25/05/2023	9:00:00 PM	25/05/2023 21:00:00	0.08	0.00	30
25/05/2023	10:00:00 PM	25/05/2023 22:00:00	0.00	0.00	30
25/05/2023	11:00:00 PM	25/05/2023 23:00:00	0.00	0.00	30
26/05/2023	12:00:00 AM	26/05/2023 00:00:00	0.30	0.00	30
26/05/2023	1:00:00 AM	26/05/2023 01:00:00	0.66	0.00	30
26/05/2023	2:00:00 AM	26/05/2023 02:00:00	0.00	0.00	30
26/05/2023	3:00:00 AM	26/05/2023 03:00:00	0.00	0.00	30
26/05/2023	4:00:00 AM	26/05/2023 04:00:00	0.00	0.00	30
26/05/2023	5:00:00 AM	26/05/2023 05:00:00	0.07	0.23	30
26/05/2023	6:00:00 AM	26/05/2023 06:00:00	0.16	1.73	30



26/05/2023	7:00:00 AM	26/05/2023 07:00:00	0.65	1.13	30
26/05/2023	8:00:00 AM	26/05/2023 08:00:00	2.38	0.00	30
26/05/2023	9:00:00 AM	26/05/2023 09:00:00	2.42	0.00	30
26/05/2023	10:00:00 AM	26/05/2023 10:00:00	2.95	0.00	30
26/05/2023	11:00:00 AM	26/05/2023 11:00:00	7.42	0.00	30
26/05/2023	12:00:00 PM	26/05/2023 12:00:00	5.75	1.74	30
26/05/2023	1:00:00 PM	26/05/2023 13:00:00	4.44	3.06	30
26/05/2023	2:00:00 PM	26/05/2023 14:00:00	0.15	1.30	30
26/05/2023	3:00:00 PM	26/05/2023 15:00:00	0.23	0.52	30
26/05/2023	4:00:00 PM	26/05/2023 16:00:00	1.35	1.13	30
26/05/2023	5:00:00 PM	26/05/2023 17:00:00	4.69	3.50	30
26/05/2023	6:00:00 PM	26/05/2023 18:00:00	5.52	2.84	30
26/05/2023	7:00:00 PM	26/05/2023 19:00:00	1.76	0.50	30
26/05/2023	8:00:00 PM	26/05/2023 20:00:00	0.10	0.00	30
26/05/2023	9:00:00 PM	26/05/2023 21:00:00	0.08	0.00	30
26/05/2023	10:00:00 PM	26/05/2023 22:00:00	0.01	0.00	30
26/05/2023	11:00:00 PM	26/05/2023 23:00:00	0.00	0.00	30
27/05/2023	12:00:00 AM	27/05/2023 00:00:00	0.00	0.00	30
27/05/2023	1:00:00 AM	27/05/2023 01:00:00	0.00	0.00	30
27/05/2023	2:00:00 AM	27/05/2023 02:00:00	0.00	0.00	30
27/05/2023	3:00:00 AM	27/05/2023 03:00:00	0.00	0.00	30
27/05/2023	4:00:00 AM	27/05/2023 04:00:00	0.00	0.00	30
27/05/2023	5:00:00 AM	27/05/2023 05:00:00	0.00	0.00	30
27/05/2023	6:00:00 AM	27/05/2023 06:00:00	0.00	0.00	30
27/05/2023	7:00:00 AM	27/05/2023 07:00:00	0.00	0.00	30
27/05/2023	8:00:00 AM	27/05/2023 08:00:00	0.00	0.00	30
27/05/2023	9:00:00 AM	27/05/2023 09:00:00	0.00	0.00	30
27/05/2023	10:00:00 AM	27/05/2023 10:00:00	0.00	0.93	30
27/05/2023	11:00:00 AM	27/05/2023 11:00:00	0.01	0.67	30
27/05/2023	12:00:00 PM	27/05/2023 12:00:00	0.04	0.00	30
27/05/2023	1:00:00 PM	27/05/2023 13:00:00	0.04	0.00	30
27/05/2023	2:00:00 PM	27/05/2023 14:00:00	0.05	0.00	30
27/05/2023	3:00:00 PM	27/05/2023 15:00:00	0.06	0.00	30
27/05/2023	4:00:00 PM	27/05/2023 16:00:00	0.09	0.00	30
27/05/2023	5:00:00 PM	27/05/2023 17:00:00	0.09	0.00	30
27/05/2023	6:00:00 PM	27/05/2023 18:00:00	0.10	0.00	30
27/05/2023	7:00:00 PM	27/05/2023 19:00:00	0.10	0.00	30
27/05/2023	8:00:00 PM	27/05/2023 20:00:00	0.07	0.00	30
27/05/2023	9:00:00 PM	27/05/2023 21:00:00	0.01	0.00	30
27/05/2023	10:00:00 PM	27/05/2023 22:00:00	0.00	0.00	30
27/05/2023	11:00:00 PM	27/05/2023 23:00:00	0.00	0.00	30
28/05/2023	12:00:00 AM	28/05/2023 00:00:00	0.00	0.00	30
28/05/2023	1:00:00 AM	28/05/2023 01:00:00	0.00	0.00	30
28/05/2023	2:00:00 AM	28/05/2023 02:00:00	0.33	0.00	30



28/05/2023	3:00:00 AM	28/05/2023 03:00:00	0.72	0.00	30
28/05/2023	4:00:00 AM	28/05/2023 04:00:00	0.00	0.00	30
28/05/2023	5:00:00 AM	28/05/2023 05:00:00	0.00	0.00	30
28/05/2023	6:00:00 AM	28/05/2023 06:00:00	0.00	0.00	30
28/05/2023	7:00:00 AM	28/05/2023 07:00:00	0.00	0.00	30
28/05/2023	8:00:00 AM	28/05/2023 08:00:00	0.00	0.00	30
28/05/2023	9:00:00 AM	28/05/2023 09:00:00	0.00	0.00	30
28/05/2023	10:00:00 AM	28/05/2023 10:00:00	0.01	0.00	30
28/05/2023	11:00:00 AM	28/05/2023 11:00:00	0.01	0.00	30
28/05/2023	12:00:00 PM	28/05/2023 12:00:00	0.00	1.28	30
28/05/2023	1:00:00 PM	28/05/2023 13:00:00	0.03	0.92	30
28/05/2023	2:00:00 PM	28/05/2023 14:00:00	0.08	0.00	30
28/05/2023	3:00:00 PM	28/05/2023 15:00:00	0.09	0.00	30
28/05/2023	4:00:00 PM	28/05/2023 16:00:00	0.10	0.00	30
28/05/2023	5:00:00 PM	28/05/2023 17:00:00	0.11	0.00	30
28/05/2023	6:00:00 PM	28/05/2023 18:00:00	0.14	0.00	30
28/05/2023	7:00:00 PM	28/05/2023 19:00:00	0.13	0.00	30
28/05/2023	8:00:00 PM	28/05/2023 20:00:00	0.03	0.00	30
28/05/2023	9:00:00 PM	28/05/2023 21:00:00	0.00	0.00	30
28/05/2023	10:00:00 PM	28/05/2023 22:00:00	0.00	0.00	30
28/05/2023	11:00:00 PM	28/05/2023 23:00:00	0.00	0.00	30
29/05/2023	12:00:00 AM	29/05/2023 00:00:00	0.30	0.00	30
29/05/2023	1:00:00 AM	29/05/2023 01:00:00	0.66	0.00	30
29/05/2023	2:00:00 AM	29/05/2023 02:00:00	0.00	0.00	30
29/05/2023	3:00:00 AM	29/05/2023 03:00:00	0.00	0.00	30
29/05/2023	4:00:00 AM	29/05/2023 04:00:00	0.00	0.00	30
29/05/2023	5:00:00 AM	29/05/2023 05:00:00	0.00	0.00	30
29/05/2023	6:00:00 AM	29/05/2023 06:00:00	0.01	0.00	30
29/05/2023	7:00:00 AM	29/05/2023 07:00:00	1.08	1.22	30
29/05/2023	8:00:00 AM	29/05/2023 08:00:00	2.41	3.61	30
29/05/2023	9:00:00 AM	29/05/2023 09:00:00	0.20	2.49	30
29/05/2023	10:00:00 AM	29/05/2023 10:00:00	0.00	2.01	30
29/05/2023	11:00:00 AM	29/05/2023 11:00:00	0.00	2.74	30
29/05/2023	12:00:00 PM	29/05/2023 12:00:00	0.00	4.45	30
29/05/2023	1:00:00 PM	29/05/2023 13:00:00	0.00	4.89	30
29/05/2023	2:00:00 PM	29/05/2023 14:00:00	0.00	5.87	30
29/05/2023	3:00:00 PM	29/05/2023 15:00:00	0.00	3.62	30
29/05/2023	4:00:00 PM	29/05/2023 16:00:00	0.00	0.50	30
29/05/2023	5:00:00 PM	29/05/2023 17:00:00	0.00	0.00	30
29/05/2023	6:00:00 PM	29/05/2023 18:00:00	0.00	0.00	30
29/05/2023	7:00:00 PM	29/05/2023 19:00:00	0.00	0.00	30
29/05/2023	8:00:00 PM	29/05/2023 20:00:00	0.00	0.00	30
29/05/2023	9:00:00 PM	29/05/2023 21:00:00	0.00	0.00	30
29/05/2023	10:00:00 PM	29/05/2023 22:00:00	0.00	0.00	30



29/05/2023	11:00:00 PM	29/05/2023 23:00:00	0.00	0.00	30
30/05/2023	12:00:00 AM	30/05/2023 00:00:00	0.00	0.00	30
30/05/2023	1:00:00 AM	30/05/2023 01:00:00	0.00	0.00	30
30/05/2023	2:00:00 AM	30/05/2023 02:00:00	0.00	0.00	30
30/05/2023	3:00:00 AM	30/05/2023 03:00:00	0.00	0.00	30
30/05/2023	4:00:00 AM	30/05/2023 04:00:00	0.00	0.00	30
30/05/2023	5:00:00 AM	30/05/2023 05:00:00	0.00	0.06	30
30/05/2023	6:00:00 AM	30/05/2023 06:00:00	0.00	1.38	30
30/05/2023	7:00:00 AM	30/05/2023 07:00:00	0.00	2.30	30
30/05/2023	8:00:00 AM	30/05/2023 08:00:00	0.00	3.76	30
30/05/2023	9:00:00 AM	30/05/2023 09:00:00	0.00	3.81	30
30/05/2023	10:00:00 AM	30/05/2023 10:00:00	0.00	4.61	30
30/05/2023	11:00:00 AM	30/05/2023 11:00:00	0.00	5.64	30
30/05/2023	12:00:00 PM	30/05/2023 12:00:00	0.00	5.48	30
30/05/2023	1:00:00 PM	30/05/2023 13:00:00	0.00	4.41	30
30/05/2023	2:00:00 PM	30/05/2023 14:00:00	0.00	5.04	30
30/05/2023	3:00:00 PM	30/05/2023 15:00:00	0.00	4.78	30
30/05/2023	4:00:00 PM	30/05/2023 16:00:00	0.00	3.14	30
30/05/2023	5:00:00 PM	30/05/2023 17:00:00	0.00	2.43	30
30/05/2023	6:00:00 PM	30/05/2023 18:00:00	0.00	2.88	30
30/05/2023	7:00:00 PM	30/05/2023 19:00:00	0.00	1.38	30
30/05/2023	8:00:00 PM	30/05/2023 20:00:00	0.00	0.00	30
30/05/2023	9:00:00 PM	30/05/2023 21:00:00	0.00	0.93	30
30/05/2023	10:00:00 PM	30/05/2023 22:00:00	0.00	0.67	30
30/05/2023	11:00:00 PM	30/05/2023 23:00:00	0.00	0.00	30
31/05/2023	12:00:00 AM	31/05/2023 00:00:00	0.00	0.00	30
31/05/2023	1:00:00 AM	31/05/2023 01:00:00	0.00	0.00	30
31/05/2023	2:00:00 AM	31/05/2023 02:00:00	0.00	0.00	30
31/05/2023	3:00:00 AM	31/05/2023 03:00:00	0.00	0.00	30
31/05/2023	4:00:00 AM	31/05/2023 04:00:00	0.00	0.00	30
31/05/2023	5:00:00 AM	31/05/2023 05:00:00	0.00	1.34	30
31/05/2023	6:00:00 AM	31/05/2023 06:00:00	0.00	2.47	30
31/05/2023	7:00:00 AM	31/05/2023 07:00:00	0.00	3.18	30
31/05/2023	8:00:00 AM	31/05/2023 08:00:00	0.00	3.43	30
31/05/2023	9:00:00 AM	31/05/2023 09:00:00	0.00	3.59	30
31/05/2023	10:00:00 AM	31/05/2023 10:00:00	0.00	5.32	30
31/05/2023	11:00:00 AM	31/05/2023 11:00:00	0.00	5.82	30
31/05/2023	12:00:00 PM	31/05/2023 12:00:00	0.00	5.34	30
31/05/2023	1:00:00 PM	31/05/2023 13:00:00	0.00	3.61	30
31/05/2023	2:00:00 PM	31/05/2023 14:00:00	0.00	2.52	30
31/05/2023	3:00:00 PM	31/05/2023 15:00:00	0.00	1.08	30
31/05/2023	4:00:00 PM	31/05/2023 16:00:00	0.00	1.05	30
31/05/2023	5:00:00 PM	31/05/2023 17:00:00	0.00	2.56	30
31/05/2023	6:00:00 PM	31/05/2023 18:00:00	0.00	2.23	30



31/05/2023	7:00:00 PM	31/05/2023 19:00:00	0.00	2.53	30
31/05/2023	8:00:00 PM	31/05/2023 20:00:00	0.00	1.39	30
31/05/2023	9:00:00 PM	31/05/2023 21:00:00	0.00	0.04	30
31/05/2023	10:00:00 PM	31/05/2023 22:00:00	0.00	0.00	30
31/05/2023	11:00:00 PM	31/05/2023 23:00:00	0.00	0.00	30
1/06/2023	12:00:00 AM	01/06/2023 00:00:00	53.38	0.00	30
1/06/2023	1:00:00 AM	01/06/2023 01:00:00	117.02	0.99	30
1/06/2023	2:00:00 AM	01/06/2023 02:00:00	0.00	0.71	30
1/06/2023	3:00:00 AM	01/06/2023 03:00:00	0.00	0.00	30
1/06/2023	4:00:00 AM	01/06/2023 04:00:00	0.01	0.00	30
1/06/2023	5:00:00 AM	01/06/2023 05:00:00	0.30	0.53	30
1/06/2023	6:00:00 AM	01/06/2023 06:00:00	1.27	1.72	30
1/06/2023	7:00:00 AM	01/06/2023 07:00:00	2.28	2.59	30
1/06/2023	8:00:00 AM	01/06/2023 08:00:00	4.29	3.79	30
1/06/2023	9:00:00 AM	01/06/2023 09:00:00	6.78	5.26	30
1/06/2023	10:00:00 AM	01/06/2023 10:00:00	3.89	5.33	30
1/06/2023	11:00:00 AM	01/06/2023 11:00:00	5.04	4.94	30
1/06/2023	12:00:00 PM	01/06/2023 12:00:00	12.41	5.13	30
1/06/2023	1:00:00 PM	01/06/2023 13:00:00	5.98	4.19	30
1/06/2023	2:00:00 PM	01/06/2023 14:00:00	11.29	3.28	30
1/06/2023	3:00:00 PM	01/06/2023 15:00:00	10.36	4.83	30
1/06/2023	4:00:00 PM	01/06/2023 16:00:00	0.08	5.48	30
1/06/2023	5:00:00 PM	01/06/2023 17:00:00	0.00	2.12	30
1/06/2023	6:00:00 PM	01/06/2023 18:00:00	0.02	0.00	30
1/06/2023	7:00:00 PM	01/06/2023 19:00:00	0.05	0.00	30
1/06/2023	8:00:00 PM	01/06/2023 20:00:00	0.04	0.00	30
1/06/2023	9:00:00 PM	01/06/2023 21:00:00	0.00	0.00	30
1/06/2023	10:00:00 PM	01/06/2023 22:00:00	0.00	0.00	30
1/06/2023	11:00:00 PM	01/06/2023 23:00:00	0.00	0.00	30
2/06/2023	12:00:00 AM	02/06/2023 00:00:00	0.00	0.00	30
2/06/2023	1:00:00 AM	02/06/2023 01:00:00	0.00	0.00	30
2/06/2023	2:00:00 AM	02/06/2023 02:00:00	0.00	0.00	30
2/06/2023	3:00:00 AM	02/06/2023 03:00:00	0.00	0.00	30
2/06/2023	4:00:00 AM	02/06/2023 04:00:00	0.00	0.00	30
2/06/2023	5:00:00 AM	02/06/2023 05:00:00	1.58	1.05	30
2/06/2023	6:00:00 AM	02/06/2023 06:00:00	4.01	4.96	30
2/06/2023	7:00:00 AM	02/06/2023 07:00:00	1.98	3.46	30
2/06/2023	8:00:00 AM	02/06/2023 08:00:00	4.03	1.14	30
2/06/2023	9:00:00 AM	02/06/2023 09:00:00	6.52	1.59	30
2/06/2023	10:00:00 AM	02/06/2023 10:00:00	5.03	1.99	30
2/06/2023	11:00:00 AM	02/06/2023 11:00:00	9.04	5.12	30
2/06/2023	12:00:00 PM	02/06/2023 12:00:00	12.39	7.14	30
2/06/2023	1:00:00 PM	02/06/2023 13:00:00	4.23	6.86	30
2/06/2023	2:00:00 PM	02/06/2023 14:00:00	1.58	6.06	30



2/06/2023	3:00:00 PM	02/06/2023 15:00:00	2.16	4.67	30
2/06/2023	4:00:00 PM	02/06/2023 16:00:00	1.67	2.30	30
2/06/2023	5:00:00 PM	02/06/2023 17:00:00	2.34	0.98	30
2/06/2023	6:00:00 PM	02/06/2023 18:00:00	6.18	1.72	30
2/06/2023	7:00:00 PM	02/06/2023 19:00:00	3.89	3.35	30
2/06/2023	8:00:00 PM	02/06/2023 20:00:00	0.14	1.70	30
2/06/2023	9:00:00 PM	02/06/2023 21:00:00	0.06	0.00	30
2/06/2023	10:00:00 PM	02/06/2023 22:00:00	0.00	0.00	30
2/06/2023	11:00:00 PM	02/06/2023 23:00:00	0.00	0.00	30
3/06/2023	12:00:00 AM	03/06/2023 00:00:00	0.00	0.00	30
3/06/2023	1:00:00 AM	03/06/2023 01:00:00	0.00	0.00	30
3/06/2023	2:00:00 AM	03/06/2023 02:00:00	0.33	0.18	30
3/06/2023	3:00:00 AM	03/06/2023 03:00:00	0.72	0.83	30
3/06/2023	4:00:00 AM	03/06/2023 04:00:00	0.00	0.50	30
3/06/2023	5:00:00 AM	03/06/2023 05:00:00	0.00	0.00	30
3/06/2023	6:00:00 AM	03/06/2023 06:00:00	0.00	0.00	30
3/06/2023	7:00:00 AM	03/06/2023 07:00:00	0.00	0.00	30
3/06/2023	8:00:00 AM	03/06/2023 08:00:00	0.00	0.00	30
3/06/2023	9:00:00 AM	03/06/2023 09:00:00	0.00	0.00	30
3/06/2023	10:00:00 AM	03/06/2023 10:00:00	0.00	0.00	30
3/06/2023	11:00:00 AM	03/06/2023 11:00:00	0.01	0.00	30
3/06/2023	12:00:00 PM	03/06/2023 12:00:00	0.03	0.64	30
3/06/2023	1:00:00 PM	03/06/2023 13:00:00	0.04	0.46	30
3/06/2023	2:00:00 PM	03/06/2023 14:00:00	0.08	0.00	30
3/06/2023	3:00:00 PM	03/06/2023 15:00:00	0.15	0.00	30
3/06/2023	4:00:00 PM	03/06/2023 16:00:00	0.16	0.99	30
3/06/2023	5:00:00 PM	03/06/2023 17:00:00	0.20	0.71	30
3/06/2023	6:00:00 PM	03/06/2023 18:00:00	0.11	0.00	30
3/06/2023	7:00:00 PM	03/06/2023 19:00:00	0.05	0.00	30
3/06/2023	8:00:00 PM	03/06/2023 20:00:00	0.09	0.00	30
3/06/2023	9:00:00 PM	03/06/2023 21:00:00	0.17	0.00	30
3/06/2023	10:00:00 PM	03/06/2023 22:00:00	0.23	0.00	30
3/06/2023	11:00:00 PM	03/06/2023 23:00:00	0.24	0.00	30
4/06/2023	12:00:00 AM	04/06/2023 00:00:00	0.43	0.00	30
4/06/2023	1:00:00 AM	04/06/2023 01:00:00	0.73	0.00	30
4/06/2023	2:00:00 AM	04/06/2023 02:00:00	0.00	0.00	30
4/06/2023	3:00:00 AM	04/06/2023 03:00:00	0.00	0.00	30
4/06/2023	4:00:00 AM	04/06/2023 04:00:00	0.00	0.00	30
4/06/2023	5:00:00 AM	04/06/2023 05:00:00	0.00	0.00	30
4/06/2023	6:00:00 AM	04/06/2023 06:00:00	0.00	0.00	30
4/06/2023	7:00:00 AM	04/06/2023 07:00:00	0.00	0.00	30
4/06/2023	8:00:00 AM	04/06/2023 08:00:00	0.00	0.00	30
4/06/2023	9:00:00 AM	04/06/2023 09:00:00	0.00	0.00	30
4/06/2023	10:00:00 AM	04/06/2023 10:00:00	0.00	0.00	30



4/06/2023	11:00:00 AM	04/06/2023 11:00:00	0.01	0.00	30
4/06/2023	12:00:00 PM	04/06/2023 12:00:00	0.03	0.00	30
4/06/2023	1:00:00 PM	04/06/2023 13:00:00	0.04	0.00	30
4/06/2023	2:00:00 PM	04/06/2023 14:00:00	0.03	0.00	30
4/06/2023	3:00:00 PM	04/06/2023 15:00:00	0.05	0.00	30
4/06/2023	4:00:00 PM	04/06/2023 16:00:00	0.12	0.00	30
4/06/2023	5:00:00 PM	04/06/2023 17:00:00	0.19	0.00	30
4/06/2023	6:00:00 PM	04/06/2023 18:00:00	0.21	0.00	30
4/06/2023	7:00:00 PM	04/06/2023 19:00:00	0.20	0.00	30
4/06/2023	8:00:00 PM	04/06/2023 20:00:00	0.06	0.00	30
4/06/2023	9:00:00 PM	04/06/2023 21:00:00	0.00	0.00	30
4/06/2023	10:00:00 PM	04/06/2023 22:00:00	0.00	0.00	30
4/06/2023	11:00:00 PM	04/06/2023 23:00:00	0.00	0.00	30
5/06/2023	12:00:00 AM	05/06/2023 00:00:00	0.00	0.00	30
5/06/2023	1:00:00 AM	05/06/2023 01:00:00	0.00	0.00	30
5/06/2023	2:00:00 AM	05/06/2023 02:00:00	0.00	0.00	30
5/06/2023	3:00:00 AM	05/06/2023 03:00:00	0.00	0.00	30
5/06/2023	4:00:00 AM	05/06/2023 04:00:00	0.00	0.00	30
5/06/2023	5:00:00 AM	05/06/2023 05:00:00	0.00	0.00	30
5/06/2023	6:00:00 AM	05/06/2023 06:00:00	0.00	0.00	30
5/06/2023	7:00:00 AM	05/06/2023 07:00:00	0.00	0.00	30
5/06/2023	8:00:00 AM	05/06/2023 08:00:00	0.00	0.00	30
5/06/2023	9:00:00 AM	05/06/2023 09:00:00	0.00	0.00	30
5/06/2023	10:00:00 AM	05/06/2023 10:00:00	0.00	0.00	30
5/06/2023	11:00:00 AM	05/06/2023 11:00:00	0.00	0.00	30
5/06/2023	12:00:00 PM	05/06/2023 12:00:00	0.05	0.00	30
5/06/2023	1:00:00 PM	05/06/2023 13:00:00	0.09	0.00	30
5/06/2023	2:00:00 PM	05/06/2023 14:00:00	0.00	0.00	30
5/06/2023	3:00:00 PM	05/06/2023 15:00:00	0.00	0.00	30
5/06/2023	4:00:00 PM	05/06/2023 16:00:00	0.00	0.00	30
5/06/2023	5:00:00 PM	05/06/2023 17:00:00	0.00	0.00	30
5/06/2023	6:00:00 PM	05/06/2023 18:00:00	0.00	0.00	30
5/06/2023	7:00:00 PM	05/06/2023 19:00:00	0.00	0.00	30
5/06/2023	8:00:00 PM	05/06/2023 20:00:00	0.00	0.00	30
5/06/2023	9:00:00 PM	05/06/2023 21:00:00	0.00	0.00	30
5/06/2023	10:00:00 PM	05/06/2023 22:00:00	0.00	0.00	30
5/06/2023	11:00:00 PM	05/06/2023 23:00:00	0.00	0.00	30
6/06/2023	12:00:00 AM	06/06/2023 00:00:00	0.00	0.00	30
6/06/2023	1:00:00 AM	06/06/2023 01:00:00	0.00	0.00	30
6/06/2023	2:00:00 AM	06/06/2023 02:00:00	0.33	0.06	30
6/06/2023	3:00:00 AM	06/06/2023 03:00:00	0.72	1.33	30
6/06/2023	4:00:00 AM	06/06/2023 04:00:00	0.00	0.91	30
6/06/2023	5:00:00 AM	06/06/2023 05:00:00	0.13	0.88	30
6/06/2023	6:00:00 AM	06/06/2023 06:00:00	1.85	1.85	30



6/06/2023	7:00:00 AM	06/06/2023 07:00:00	4.81	3.16	30
6/06/2023	8:00:00 AM	06/06/2023 08:00:00	5.33	4.96	30
6/06/2023	9:00:00 AM	06/06/2023 09:00:00	5.53	4.94	30
6/06/2023	10:00:00 AM	06/06/2023 10:00:00	4.03	3.87	30
6/06/2023	11:00:00 AM	06/06/2023 11:00:00	9.58	3.85	30
6/06/2023	12:00:00 PM	06/06/2023 12:00:00	7.36	5.04	30
6/06/2023	1:00:00 PM	06/06/2023 13:00:00	4.31	4.94	30
6/06/2023	2:00:00 PM	06/06/2023 14:00:00	8.06	4.81	30
6/06/2023	3:00:00 PM	06/06/2023 15:00:00	10.56	5.75	30
6/06/2023	4:00:00 PM	06/06/2023 16:00:00	3.72	5.67	30
6/06/2023	5:00:00 PM	06/06/2023 17:00:00	0.00	2.19	30
6/06/2023	6:00:00 PM	06/06/2023 18:00:00	0.00	0.00	30
6/06/2023	7:00:00 PM	06/06/2023 19:00:00	0.00	0.00	30
6/06/2023	8:00:00 PM	06/06/2023 20:00:00	0.00	0.00	30
6/06/2023	9:00:00 PM	06/06/2023 21:00:00	0.00	0.00	30
6/06/2023	10:00:00 PM	06/06/2023 22:00:00	0.00	0.00	30
6/06/2023	11:00:00 PM	06/06/2023 23:00:00	0.00	0.00	30
7/06/2023	12:00:00 AM	07/06/2023 00:00:00	0.30	0.00	30
7/06/2023	1:00:00 AM	07/06/2023 01:00:00	0.66	0.00	30
7/06/2023	2:00:00 AM	07/06/2023 02:00:00	0.00	0.00	30
7/06/2023	3:00:00 AM	07/06/2023 03:00:00	0.00	0.00	30
7/06/2023	4:00:00 AM	07/06/2023 04:00:00	0.02	0.00	30
7/06/2023	5:00:00 AM	07/06/2023 05:00:00	0.36	1.65	30
7/06/2023	6:00:00 AM	07/06/2023 06:00:00	2.87	3.33	30
7/06/2023	7:00:00 AM	07/06/2023 07:00:00	5.30	5.11	30
7/06/2023	8:00:00 AM	07/06/2023 08:00:00	4.57	6.04	30
7/06/2023	9:00:00 AM	07/06/2023 09:00:00	9.50	4.77	30
7/06/2023	10:00:00 AM	07/06/2023 10:00:00	6.96	2.31	30
7/06/2023	11:00:00 AM	07/06/2023 11:00:00	10.37	3.49	30
7/06/2023	12:00:00 PM	07/06/2023 12:00:00	10.37	4.98	30
7/06/2023	1:00:00 PM	07/06/2023 13:00:00	7.41	2.02	30
7/06/2023	2:00:00 PM	07/06/2023 14:00:00	4.16	5.94	30
7/06/2023	3:00:00 PM	07/06/2023 15:00:00	4.87	7.93	30
7/06/2023	4:00:00 PM	07/06/2023 16:00:00	4.09	6.16	30
7/06/2023	5:00:00 PM	07/06/2023 17:00:00	6.51	6.65	30
7/06/2023	6:00:00 PM	07/06/2023 18:00:00	9.00	5.69	30
7/06/2023	7:00:00 PM	07/06/2023 19:00:00	4.15	1.94	30
7/06/2023	8:00:00 PM	07/06/2023 20:00:00	0.00	0.00	30
7/06/2023	9:00:00 PM	07/06/2023 21:00:00	0.00	0.00	30
7/06/2023	10:00:00 PM	07/06/2023 22:00:00	0.00	0.00	30
7/06/2023	11:00:00 PM	07/06/2023 23:00:00	0.00	0.00	30
8/06/2023	12:00:00 AM	08/06/2023 00:00:00	0.00	0.00	30
8/06/2023	1:00:00 AM	08/06/2023 01:00:00	0.00	0.00	30
8/06/2023	2:00:00 AM	08/06/2023 02:00:00	0.00	0.00	30



8/06/2023	3:00:00 AM	08/06/2023 03:00:00	0.00	0.00	30
8/06/2023	4:00:00 AM	08/06/2023 04:00:00	0.01	0.00	30
8/06/2023	5:00:00 AM	08/06/2023 05:00:00	0.33	1.71	30
8/06/2023	6:00:00 AM	08/06/2023 06:00:00	1.07	2.72	30
8/06/2023	7:00:00 AM	08/06/2023 07:00:00	1.13	2.36	30
8/06/2023	8:00:00 AM	08/06/2023 08:00:00	1.99	3.55	30
8/06/2023	9:00:00 AM	08/06/2023 09:00:00	4.27	3.27	30
8/06/2023	10:00:00 AM	08/06/2023 10:00:00	5.08	3.05	30
8/06/2023	11:00:00 AM	08/06/2023 11:00:00	6.98	2.74	30
8/06/2023	12:00:00 PM	08/06/2023 12:00:00	10.07	2.79	30
8/06/2023	1:00:00 PM	08/06/2023 13:00:00	8.87	4.85	30
8/06/2023	2:00:00 PM	08/06/2023 14:00:00	1.67	4.47	30
8/06/2023	3:00:00 PM	08/06/2023 15:00:00	3.77	4.40	30
8/06/2023	4:00:00 PM	08/06/2023 16:00:00	2.62	5.75	30
8/06/2023	5:00:00 PM	08/06/2023 17:00:00	2.41	4.85	30
8/06/2023	6:00:00 PM	08/06/2023 18:00:00	6.06	3.31	30
8/06/2023	7:00:00 PM	08/06/2023 19:00:00	5.46	1.66	30
8/06/2023	8:00:00 PM	08/06/2023 20:00:00	0.12	0.33	30
8/06/2023	9:00:00 PM	08/06/2023 21:00:00	0.00	0.00	30
8/06/2023	10:00:00 PM	08/06/2023 22:00:00	0.00	0.00	30
8/06/2023	11:00:00 PM	08/06/2023 23:00:00	0.00	0.00	30
9/06/2023	12:00:00 AM	09/06/2023 00:00:00	0.00	0.00	30
9/06/2023	1:00:00 AM	09/06/2023 01:00:00	0.00	0.00	30
9/06/2023	2:00:00 AM	09/06/2023 02:00:00	0.32	0.12	30
9/06/2023	3:00:00 AM	09/06/2023 03:00:00	0.73	1.02	30
9/06/2023	4:00:00 AM	09/06/2023 04:00:00	0.00	0.66	30
9/06/2023	5:00:00 AM	09/06/2023 05:00:00	0.00	0.00	30
9/06/2023	6:00:00 AM	09/06/2023 06:00:00	0.01	0.00	30
9/06/2023	7:00:00 AM	09/06/2023 07:00:00	0.13	1.12	30
9/06/2023	8:00:00 AM	09/06/2023 08:00:00	0.34	3.14	30
9/06/2023	9:00:00 AM	09/06/2023 09:00:00	0.32	2.06	30
9/06/2023	10:00:00 AM	09/06/2023 10:00:00	0.81	0.29	30
9/06/2023	11:00:00 AM	09/06/2023 11:00:00	1.52	0.06	30
9/06/2023	12:00:00 PM	09/06/2023 12:00:00	0.15	1.98	30
9/06/2023	1:00:00 PM	09/06/2023 13:00:00	1.09	2.71	30
9/06/2023	2:00:00 PM	09/06/2023 14:00:00	2.95	3.07	30
9/06/2023	3:00:00 PM	09/06/2023 15:00:00	1.81	1.83	30
9/06/2023	4:00:00 PM	09/06/2023 16:00:00	0.19	0.25	30
9/06/2023	5:00:00 PM	09/06/2023 17:00:00	0.05	0.00	30
9/06/2023	6:00:00 PM	09/06/2023 18:00:00	0.08	0.12	30
9/06/2023	7:00:00 PM	09/06/2023 19:00:00	0.18	0.08	30
9/06/2023	8:00:00 PM	09/06/2023 20:00:00	0.18	0.00	30
9/06/2023	9:00:00 PM	09/06/2023 21:00:00	0.09	0.00	30
9/06/2023	10:00:00 PM	09/06/2023 22:00:00	0.01	0.00	30



9/06/2023	11:00:00 PM	09/06/2023 23:00:00	0.00	0.00	30
10/06/2023	12:00:00 AM	10/06/2023 00:00:00	0.30	0.06	30
10/06/2023	1:00:00 AM	10/06/2023 01:00:00	0.66	0.51	30
10/06/2023	2:00:00 AM	10/06/2023 02:00:00	0.00	0.98	30
10/06/2023	3:00:00 AM	10/06/2023 03:00:00	0.00	0.45	30
10/06/2023	4:00:00 AM	10/06/2023 04:00:00	0.00	0.00	30
10/06/2023	5:00:00 AM	10/06/2023 05:00:00	0.00	0.00	30
10/06/2023	6:00:00 AM	10/06/2023 06:00:00	0.00	0.00	30
10/06/2023	7:00:00 AM	10/06/2023 07:00:00	0.00	0.00	30
10/06/2023	8:00:00 AM	10/06/2023 08:00:00	0.00	0.00	30
10/06/2023	9:00:00 AM	10/06/2023 09:00:00	0.00	0.00	30
10/06/2023	10:00:00 AM	10/06/2023 10:00:00	0.01	0.00	30
10/06/2023	11:00:00 AM	10/06/2023 11:00:00	0.02	0.00	30
10/06/2023	12:00:00 PM	10/06/2023 12:00:00	0.01	0.00	30
10/06/2023	1:00:00 PM	10/06/2023 13:00:00	0.01	0.00	30
10/06/2023	2:00:00 PM	10/06/2023 14:00:00	0.02	0.00	30
10/06/2023	3:00:00 PM	10/06/2023 15:00:00	0.08	0.00	30
10/06/2023	4:00:00 PM	10/06/2023 16:00:00	0.12	0.00	30
10/06/2023	5:00:00 PM	10/06/2023 17:00:00	0.14	0.00	30
10/06/2023	6:00:00 PM	10/06/2023 18:00:00	0.15	0.00	30
10/06/2023	7:00:00 PM	10/06/2023 19:00:00	0.14	0.00	30
10/06/2023	8:00:00 PM	10/06/2023 20:00:00	0.12	0.00	30
10/06/2023	9:00:00 PM	10/06/2023 21:00:00	0.07	0.00	30
10/06/2023	10:00:00 PM	10/06/2023 22:00:00	0.02	0.00	30
10/06/2023	11:00:00 PM	10/06/2023 23:00:00	0.00	0.00	30
11/06/2023	12:00:00 AM	11/06/2023 00:00:00	0.00	0.00	30
11/06/2023	1:00:00 AM	11/06/2023 01:00:00	0.00	0.00	30
11/06/2023	2:00:00 AM	11/06/2023 02:00:00	0.00	0.00	30
11/06/2023	3:00:00 AM	11/06/2023 03:00:00	0.00	0.00	30
11/06/2023	4:00:00 AM	11/06/2023 04:00:00	0.00	0.00	30
11/06/2023	5:00:00 AM	11/06/2023 05:00:00	0.00	0.00	30
11/06/2023	6:00:00 AM	11/06/2023 06:00:00	0.00	0.00	30
11/06/2023	7:00:00 AM	11/06/2023 07:00:00	0.00	0.00	30
11/06/2023	8:00:00 AM	11/06/2023 08:00:00	0.00	0.00	30
11/06/2023	9:00:00 AM	11/06/2023 09:00:00	0.62	0.00	30
11/06/2023	10:00:00 AM	11/06/2023 10:00:00	2.55	1.18	30
11/06/2023	11:00:00 AM	11/06/2023 11:00:00	2.58	0.82	30
11/06/2023	12:00:00 PM	11/06/2023 12:00:00	0.01	0.00	30
11/06/2023	1:00:00 PM	11/06/2023 13:00:00	0.02	0.00	30
11/06/2023	2:00:00 PM	11/06/2023 14:00:00	0.01	0.00	30
11/06/2023	3:00:00 PM	11/06/2023 15:00:00	0.05	0.00	30
11/06/2023	4:00:00 PM	11/06/2023 16:00:00	0.14	0.00	30
11/06/2023	5:00:00 PM	11/06/2023 17:00:00	0.14	0.00	30
11/06/2023	6:00:00 PM	11/06/2023 18:00:00	0.14	0.00	30



11/06/2023	7:00:00 PM	11/06/2023 19:00:00	0.10	0.00	30
11/06/2023	8:00:00 PM	11/06/2023 20:00:00	0.00	0.00	30
11/06/2023	9:00:00 PM	11/06/2023 21:00:00	0.00	0.00	30
11/06/2023	10:00:00 PM	11/06/2023 22:00:00	0.00	0.00	30
11/06/2023	11:00:00 PM	11/06/2023 23:00:00	0.00	0.00	30
12/06/2023	12:00:00 AM	12/06/2023 00:00:00	0.00	0.00	30
12/06/2023	1:00:00 AM	12/06/2023 01:00:00	0.00	0.00	30
12/06/2023	2:00:00 AM	12/06/2023 02:00:00	0.32	0.00	30
12/06/2023	3:00:00 AM	12/06/2023 03:00:00	0.73	0.00	30
12/06/2023	4:00:00 AM	12/06/2023 04:00:00	0.00	0.24	30
12/06/2023	5:00:00 AM	12/06/2023 05:00:00	0.23	1.58	30
12/06/2023	6:00:00 AM	12/06/2023 06:00:00	1.73	2.34	30
12/06/2023	7:00:00 AM	12/06/2023 07:00:00	4.52	0.94	30
12/06/2023	8:00:00 AM	12/06/2023 08:00:00	5.55	4.79	30
12/06/2023	9:00:00 AM	12/06/2023 09:00:00	6.25	5.32	30
12/06/2023	10:00:00 AM	12/06/2023 10:00:00	8.54	4.58	30
12/06/2023	11:00:00 AM	12/06/2023 11:00:00	9.81	8.59	30
12/06/2023	12:00:00 PM	12/06/2023 12:00:00	9.80	9.09	30
12/06/2023	1:00:00 PM	12/06/2023 13:00:00	5.02	7.49	30
12/06/2023	2:00:00 PM	12/06/2023 14:00:00	2.72	6.20	30
12/06/2023	3:00:00 PM	12/06/2023 15:00:00	0.70	4.73	30
12/06/2023	4:00:00 PM	12/06/2023 16:00:00	1.29	1.72	30
12/06/2023	5:00:00 PM	12/06/2023 17:00:00	0.00	0.00	30
12/06/2023	6:00:00 PM	12/06/2023 18:00:00	0.00	0.00	30
12/06/2023	7:00:00 PM	12/06/2023 19:00:00	0.00	0.00	30
12/06/2023	8:00:00 PM	12/06/2023 20:00:00	0.00	0.00	30
12/06/2023	9:00:00 PM	12/06/2023 21:00:00	0.00	0.00	30
12/06/2023	10:00:00 PM	12/06/2023 22:00:00	0.00	0.00	30
12/06/2023	11:00:00 PM	12/06/2023 23:00:00	0.00	0.00	30
13/06/2023	12:00:00 AM	13/06/2023 00:00:00	0.29	0.00	30
13/06/2023	1:00:00 AM	13/06/2023 01:00:00	0.67	0.00	30
13/06/2023	2:00:00 AM	13/06/2023 02:00:00	0.00	0.00	30
13/06/2023	3:00:00 AM	13/06/2023 03:00:00	0.00	0.00	30
13/06/2023	4:00:00 AM	13/06/2023 04:00:00	0.00	0.00	30
13/06/2023	5:00:00 AM	13/06/2023 05:00:00	0.22	1.36	30
13/06/2023	6:00:00 AM	13/06/2023 06:00:00	1.23	1.83	30
13/06/2023	7:00:00 AM	13/06/2023 07:00:00	3.15	1.97	30
13/06/2023	8:00:00 AM	13/06/2023 08:00:00	5.40	1.35	30
13/06/2023	9:00:00 AM	13/06/2023 09:00:00	6.22	1.82	30
13/06/2023	10:00:00 AM	13/06/2023 10:00:00	5.65	3.43	30
13/06/2023	11:00:00 AM	13/06/2023 11:00:00	7.91	3.76	30
13/06/2023	12:00:00 PM	13/06/2023 12:00:00	9.09	3.30	30
13/06/2023	1:00:00 PM	13/06/2023 13:00:00	7.51	5.52	30
13/06/2023	2:00:00 PM	13/06/2023 14:00:00	3.27	7.14	30



13/06/2023	3:00:00 PM	13/06/2023 15:00:00	1.01	3.79	30
13/06/2023	4:00:00 PM	13/06/2023 16:00:00	2.35	2.03	30
13/06/2023	5:00:00 PM	13/06/2023 17:00:00	1.53	2.22	30
13/06/2023	6:00:00 PM	13/06/2023 18:00:00	4.96	2.10	30
13/06/2023	7:00:00 PM	13/06/2023 19:00:00	6.46	2.69	30
13/06/2023	8:00:00 PM	13/06/2023 20:00:00	0.07	1.27	30
13/06/2023	9:00:00 PM	13/06/2023 21:00:00	0.00	0.00	30
13/06/2023	10:00:00 PM	13/06/2023 22:00:00	0.00	0.00	30
13/06/2023	11:00:00 PM	13/06/2023 23:00:00	0.00	0.00	30
14/06/2023	12:00:00 AM	14/06/2023 00:00:00	0.00	0.00	30
14/06/2023	1:00:00 AM	14/06/2023 01:00:00	0.00	0.06	30
14/06/2023	2:00:00 AM	14/06/2023 02:00:00	0.00	0.04	30
14/06/2023	3:00:00 AM	14/06/2023 03:00:00	0.00	0.00	30
14/06/2023	4:00:00 AM	14/06/2023 04:00:00	0.00	0.00	30
14/06/2023	5:00:00 AM	14/06/2023 05:00:00	0.00	0.00	30
14/06/2023	6:00:00 AM	14/06/2023 06:00:00	0.17	0.00	30
14/06/2023	7:00:00 AM	14/06/2023 07:00:00	0.67	0.00	30
14/06/2023	8:00:00 AM	14/06/2023 08:00:00	1.13	0.00	30
14/06/2023	9:00:00 AM	14/06/2023 09:00:00	1.38	0.00	30
14/06/2023	10:00:00 AM	14/06/2023 10:00:00	2.01	0.00	30
14/06/2023	11:00:00 AM	14/06/2023 11:00:00	2.94	0.00	30
14/06/2023	12:00:00 PM	14/06/2023 12:00:00	1.34	0.95	30
14/06/2023	1:00:00 PM	14/06/2023 13:00:00	2.38	0.65	30
14/06/2023	2:00:00 PM	14/06/2023 14:00:00	3.10	0.00	30
14/06/2023	3:00:00 PM	14/06/2023 15:00:00	0.16	0.00	30
14/06/2023	4:00:00 PM	14/06/2023 16:00:00	0.03	0.59	30
14/06/2023	5:00:00 PM	14/06/2023 17:00:00	0.00	1.89	30
14/06/2023	6:00:00 PM	14/06/2023 18:00:00	0.00	1.97	30
14/06/2023	7:00:00 PM	14/06/2023 19:00:00	0.00	1.54	30
14/06/2023	8:00:00 PM	14/06/2023 20:00:00	0.00	1.50	30
14/06/2023	9:00:00 PM	14/06/2023 21:00:00	0.00	1.56	30
14/06/2023	10:00:00 PM	14/06/2023 22:00:00	0.00	1.60	30
14/06/2023	11:00:00 PM	14/06/2023 23:00:00	0.00	0.95	30
15/06/2023	12:00:00 AM	15/06/2023 00:00:00	0.00	0.32	30
15/06/2023	1:00:00 AM	15/06/2023 01:00:00	0.00	0.08	30
15/06/2023	2:00:00 AM	15/06/2023 02:00:00	0.32	0.12	30
15/06/2023	3:00:00 AM	15/06/2023 03:00:00	0.73	0.85	30
15/06/2023	4:00:00 AM	15/06/2023 04:00:00	0.00	0.53	30
15/06/2023	5:00:00 AM	15/06/2023 05:00:00	0.85	0.00	30
15/06/2023	6:00:00 AM	15/06/2023 06:00:00	2.51	0.00	30
15/06/2023	7:00:00 AM	15/06/2023 07:00:00	2.30	0.00	30
15/06/2023	8:00:00 AM	15/06/2023 08:00:00	3.47	0.00	30
15/06/2023	9:00:00 AM	15/06/2023 09:00:00	3.79	0.00	30
15/06/2023	10:00:00 AM	15/06/2023 10:00:00	3.67	0.00	30



15/06/2023	11:00:00 AM	15/06/2023 11:00:00	4.08	0.00	30
15/06/2023	12:00:00 PM	15/06/2023 12:00:00	2.61	0.00	30
15/06/2023	1:00:00 PM	15/06/2023 13:00:00	1.16	0.00	30
15/06/2023	2:00:00 PM	15/06/2023 14:00:00	3.82	0.00	30
15/06/2023	3:00:00 PM	15/06/2023 15:00:00	3.84	0.06	30
15/06/2023	4:00:00 PM	15/06/2023 16:00:00	1.12	0.52	30
15/06/2023	5:00:00 PM	15/06/2023 17:00:00	0.07	2.34	30
15/06/2023	6:00:00 PM	15/06/2023 18:00:00	0.07	3.76	30
15/06/2023	7:00:00 PM	15/06/2023 19:00:00	0.06	4.00	30
15/06/2023	8:00:00 PM	15/06/2023 20:00:00	0.07	4.53	30
15/06/2023	9:00:00 PM	15/06/2023 21:00:00	0.02	4.19	30
15/06/2023	10:00:00 PM	15/06/2023 22:00:00	0.00	4.12	30
15/06/2023	11:00:00 PM	15/06/2023 23:00:00	0.00	4.70	30
16/06/2023	12:00:00 AM	16/06/2023 00:00:00	0.29	4.31	30
16/06/2023	1:00:00 AM	16/06/2023 01:00:00	0.67	1.59	30
16/06/2023	2:00:00 AM	16/06/2023 02:00:00	0.00	0.00	30
16/06/2023	3:00:00 AM	16/06/2023 03:00:00	0.00	0.00	30
16/06/2023	4:00:00 AM	16/06/2023 04:00:00	0.00	0.00	30
16/06/2023	5:00:00 AM	16/06/2023 05:00:00	0.01	0.00	30
16/06/2023	6:00:00 AM	16/06/2023 06:00:00	0.05	0.00	30
16/06/2023	7:00:00 AM	16/06/2023 07:00:00	1.71	0.00	30
16/06/2023	8:00:00 AM	16/06/2023 08:00:00	5.89	0.00	30
16/06/2023	9:00:00 AM	16/06/2023 09:00:00	6.35	0.00	30
16/06/2023	10:00:00 AM	16/06/2023 10:00:00	5.65	0.00	30
16/06/2023	11:00:00 AM	16/06/2023 11:00:00	6.59	0.00	30
16/06/2023	12:00:00 PM	16/06/2023 12:00:00	7.78	0.00	30
16/06/2023	1:00:00 PM	16/06/2023 13:00:00	8.60	0.00	30
16/06/2023	2:00:00 PM	16/06/2023 14:00:00	0.96	0.00	30
16/06/2023	3:00:00 PM	16/06/2023 15:00:00	2.06	0.00	30
16/06/2023	4:00:00 PM	16/06/2023 16:00:00	2.50	0.65	30
16/06/2023	5:00:00 PM	16/06/2023 17:00:00	1.78	2.47	30
16/06/2023	6:00:00 PM	16/06/2023 18:00:00	4.31	5.24	30
16/06/2023	7:00:00 PM	16/06/2023 19:00:00	5.60	5.43	30
16/06/2023	8:00:00 PM	16/06/2023 20:00:00	0.87	2.44	30
16/06/2023	9:00:00 PM	16/06/2023 21:00:00	0.09	3.87	30
16/06/2023	10:00:00 PM	16/06/2023 22:00:00	0.01	3.46	30
16/06/2023	11:00:00 PM	16/06/2023 23:00:00	0.00	3.40	30
17/06/2023	12:00:00 AM	17/06/2023 00:00:00	0.00	3.67	30
17/06/2023	1:00:00 AM	17/06/2023 01:00:00	0.00	1.26	30
17/06/2023	2:00:00 AM	17/06/2023 02:00:00	0.00	0.00	30
17/06/2023	3:00:00 AM	17/06/2023 03:00:00	0.00	0.00	30
17/06/2023	4:00:00 AM	17/06/2023 04:00:00	0.00	0.00	30
17/06/2023	5:00:00 AM	17/06/2023 05:00:00	0.00	0.00	30
17/06/2023	6:00:00 AM	17/06/2023 06:00:00	0.00	0.00	30



17/06/2023	7:00:00 AM	17/06/2023 07:00:00	0.00	0.00	30
17/06/2023	8:00:00 AM	17/06/2023 08:00:00	0.00	0.00	30
17/06/2023	9:00:00 AM	17/06/2023 09:00:00	0.00	0.00	30
17/06/2023	10:00:00 AM	17/06/2023 10:00:00	0.22	0.00	30
17/06/2023	11:00:00 AM	17/06/2023 11:00:00	2.42	0.00	30
17/06/2023	12:00:00 PM	17/06/2023 12:00:00	4.52	0.00	30
17/06/2023	1:00:00 PM	17/06/2023 13:00:00	0.36	0.00	30
17/06/2023	2:00:00 PM	17/06/2023 14:00:00	0.06	0.00	30
17/06/2023	3:00:00 PM	17/06/2023 15:00:00	0.06	0.00	30
17/06/2023	4:00:00 PM	17/06/2023 16:00:00	0.10	0.65	30
17/06/2023	5:00:00 PM	17/06/2023 17:00:00	0.16	4.25	30
17/06/2023	6:00:00 PM	17/06/2023 18:00:00	0.15	2.60	30
17/06/2023	7:00:00 PM	17/06/2023 19:00:00	0.11	0.00	30
17/06/2023	8:00:00 PM	17/06/2023 20:00:00	0.10	0.00	30
17/06/2023	9:00:00 PM	17/06/2023 21:00:00	0.06	0.00	30
17/06/2023	10:00:00 PM	17/06/2023 22:00:00	0.00	0.00	30
17/06/2023	11:00:00 PM	17/06/2023 23:00:00	0.00	0.00	30
18/06/2023	12:00:00 AM	18/06/2023 00:00:00	0.00	0.00	30
18/06/2023	1:00:00 AM	18/06/2023 01:00:00	0.00	0.00	30
18/06/2023	2:00:00 AM	18/06/2023 02:00:00	0.32	0.00	30
18/06/2023	3:00:00 AM	18/06/2023 03:00:00	0.73	3.98	30
18/06/2023	4:00:00 AM	18/06/2023 04:00:00	0.00	5.93	30
18/06/2023	5:00:00 AM	18/06/2023 05:00:00	0.00	2.19	30
18/06/2023	6:00:00 AM	18/06/2023 06:00:00	0.00	0.00	30
18/06/2023	7:00:00 AM	18/06/2023 07:00:00	0.00	0.00	30
18/06/2023	8:00:00 AM	18/06/2023 08:00:00	0.00	0.00	30
18/06/2023	9:00:00 AM	18/06/2023 09:00:00	0.11	0.00	30
18/06/2023	10:00:00 AM	18/06/2023 10:00:00	0.25	0.00	30
18/06/2023	11:00:00 AM	18/06/2023 11:00:00	0.02	0.00	30
18/06/2023	12:00:00 PM	18/06/2023 12:00:00	0.01	0.00	30
18/06/2023	1:00:00 PM	18/06/2023 13:00:00	0.03	0.00	30
18/06/2023	2:00:00 PM	18/06/2023 14:00:00	0.03	0.00	30
18/06/2023	3:00:00 PM	18/06/2023 15:00:00	0.06	0.00	30
18/06/2023	4:00:00 PM	18/06/2023 16:00:00	0.13	0.00	30
18/06/2023	5:00:00 PM	18/06/2023 17:00:00	0.11	0.00	30
18/06/2023	6:00:00 PM	18/06/2023 18:00:00	0.10	0.00	30
18/06/2023	7:00:00 PM	18/06/2023 19:00:00	0.10	0.00	30
18/06/2023	8:00:00 PM	18/06/2023 20:00:00	0.06	0.00	30
18/06/2023	9:00:00 PM	18/06/2023 21:00:00	0.00	0.00	30
18/06/2023	10:00:00 PM	18/06/2023 22:00:00	0.00	0.00	30
18/06/2023	11:00:00 PM	18/06/2023 23:00:00	0.00	0.00	30
19/06/2023	12:00:00 AM	19/06/2023 00:00:00	0.29	0.00	30
19/06/2023	1:00:00 AM	19/06/2023 01:00:00	0.67	0.00	30
19/06/2023	2:00:00 AM	19/06/2023 02:00:00	0.00	0.00	30



19/06/2023	3:00:00 AM	19/06/2023 03:00:00	0.00	0.00	30
19/06/2023	4:00:00 AM	19/06/2023 04:00:00	0.00	0.00	30
19/06/2023	5:00:00 AM	19/06/2023 05:00:00	0.37	0.00	30
19/06/2023	6:00:00 AM	19/06/2023 06:00:00	3.16	0.00	30
19/06/2023	7:00:00 AM	19/06/2023 07:00:00	6.63	0.00	30
19/06/2023	8:00:00 AM	19/06/2023 08:00:00	4.70	0.00	30
19/06/2023	9:00:00 AM	19/06/2023 09:00:00	5.92	2.56	30
19/06/2023	10:00:00 AM	19/06/2023 10:00:00	6.32	3.11	30
19/06/2023	11:00:00 AM	19/06/2023 11:00:00	6.53	0.93	30
19/06/2023	12:00:00 PM	19/06/2023 12:00:00	5.83	0.00	30
19/06/2023	1:00:00 PM	19/06/2023 13:00:00	2.51	0.00	30
19/06/2023	2:00:00 PM	19/06/2023 14:00:00	2.75	0.00	30
19/06/2023	3:00:00 PM	19/06/2023 15:00:00	1.86	0.00	30
19/06/2023	4:00:00 PM	19/06/2023 16:00:00	1.99	0.00	30
19/06/2023	5:00:00 PM	19/06/2023 17:00:00	0.01	0.00	30
19/06/2023	6:00:00 PM	19/06/2023 18:00:00	0.00	0.00	30
19/06/2023	7:00:00 PM	19/06/2023 19:00:00	0.00	0.00	30
19/06/2023	8:00:00 PM	19/06/2023 20:00:00	0.00	0.00	30
19/06/2023	9:00:00 PM	19/06/2023 21:00:00	0.00	0.00	30
19/06/2023	10:00:00 PM	19/06/2023 22:00:00	0.00	0.00	30
19/06/2023	11:00:00 PM	19/06/2023 23:00:00	0.00	0.66	30
20/06/2023	12:00:00 AM	20/06/2023 00:00:00	0.00	0.00	30
20/06/2023	1:00:00 AM	20/06/2023 01:00:00	0.00	4.85	30
20/06/2023	2:00:00 AM	20/06/2023 02:00:00	0.00	3.60	30
20/06/2023	3:00:00 AM	20/06/2023 03:00:00	0.00	3.84	30
20/06/2023	4:00:00 AM	20/06/2023 04:00:00	0.00	5.90	30
20/06/2023	5:00:00 AM	20/06/2023 05:00:00	0.00	7.02	30
20/06/2023	6:00:00 AM	20/06/2023 06:00:00	0.00	6.19	30
20/06/2023	7:00:00 AM	20/06/2023 07:00:00	2.90	2.84	30
20/06/2023	8:00:00 AM	20/06/2023 08:00:00	7.90	0.36	30
20/06/2023	9:00:00 AM	20/06/2023 09:00:00	2.88	0.00	30
20/06/2023	10:00:00 AM	20/06/2023 10:00:00	0.09	0.00	30
20/06/2023	11:00:00 AM	20/06/2023 11:00:00	1.77	0.00	30
20/06/2023	12:00:00 PM	20/06/2023 12:00:00	4.22	0.00	30
20/06/2023	1:00:00 PM	20/06/2023 13:00:00	0.43	0.00	30
20/06/2023	2:00:00 PM	20/06/2023 14:00:00	0.03	0.00	30
20/06/2023	3:00:00 PM	20/06/2023 15:00:00	0.03	0.00	30
20/06/2023	4:00:00 PM	20/06/2023 16:00:00			30
20/06/2023	5:00:00 PM	20/06/2023 17:00:00			30
20/06/2023	6:00:00 PM	20/06/2023 18:00:00			30
20/06/2023	7:00:00 PM	20/06/2023 19:00:00			30
20/06/2023	8:00:00 PM	20/06/2023 20:00:00			30
20/06/2023	9:00:00 PM	20/06/2023 21:00:00			30
20/06/2023	10:00:00 PM	20/06/2023 22:00:00			30



20/06/2023 11:00:00 PM 20/06/2023 23:00:00

30

Green	TW Consent Limit
Red	Calculated Value

Time	(All)
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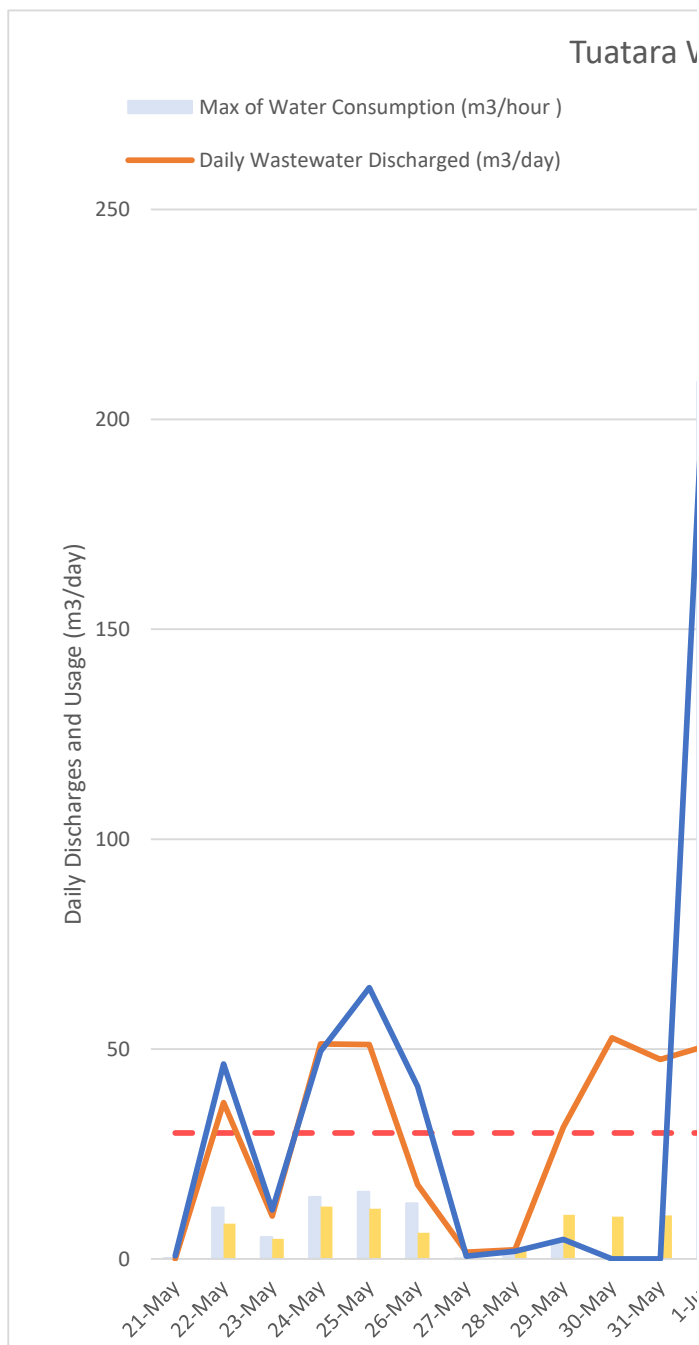
	Values		
	Daily Wastewater Consent Limit (m3/day)	Daily Wastewater Discharged (m3/day)	Daily Water Consumption (m3/day)
Date			
21-May	30	0.00	0.71
22-May	30	37.20	46.41
23-May	30	10.20	11.65
24-May	30	51.20	49.49
25-May	30	51.10	64.64
26-May	30	17.70	41.08
27-May	30	1.60	0.66
28-May	30	2.20	1.79
29-May	30	31.40	4.65
30-May	30	52.70	0.00
31-May	30	47.50	0.00
1-Jun	30	50.90	234.49
2-Jun	30	54.10	66.85
3-Jun	30	4.30	2.62
4-Jun	30	0.00	2.10
5-Jun	30	0.00	0.14
6-Jun	30	54.20	66.31
7-Jun	30	68.00	91.47
8-Jun	30	51.80	61.92
9-Jun	30	18.50	10.95
10-Jun	30	2.00	1.88
11-Jun	30	2.00	6.36
12-Jun	30	57.60	57.18
13-Jun	30	45.60	66.98
14-Jun	30	13.30	15.33
15-Jun	30	30.11	34.57
16-Jun	30	32.87	61.77
17-Jun	30	12.43	8.33
18-Jun	30	12.10	2.06
19-Jun	30	7.26	49.54
20-Jun	30	34.61	20.25

Goes Red if over 30m3/day



Pages 20-36, 39-54, and 57-72 of this report have been removed as they are blank apart from the Council logo and do not add any information.

Max of Water Consumption (m3/hour)	Max of Wastewater Discharged (m3/hour)
0.13	0.00
6.88	4.70
2.92	2.69
8.28	6.98
8.95	6.68
7.42	3.50
0.10	0.93
0.72	1.28
2.41	5.87
0.00	5.64
0.00	5.82
117.02	5.48
12.39	7.14
0.72	0.99
0.73	0.00
0.09	0.00
10.56	5.75
10.37	7.93
10.07	5.75
2.95	3.14
0.66	0.98
2.58	1.18
9.81	9.09
9.09	7.14
3.10	1.97
4.08	4.70
8.60	5.43
4.52	4.25
0.73	5.93
6.63	3.11
7.90	7.02

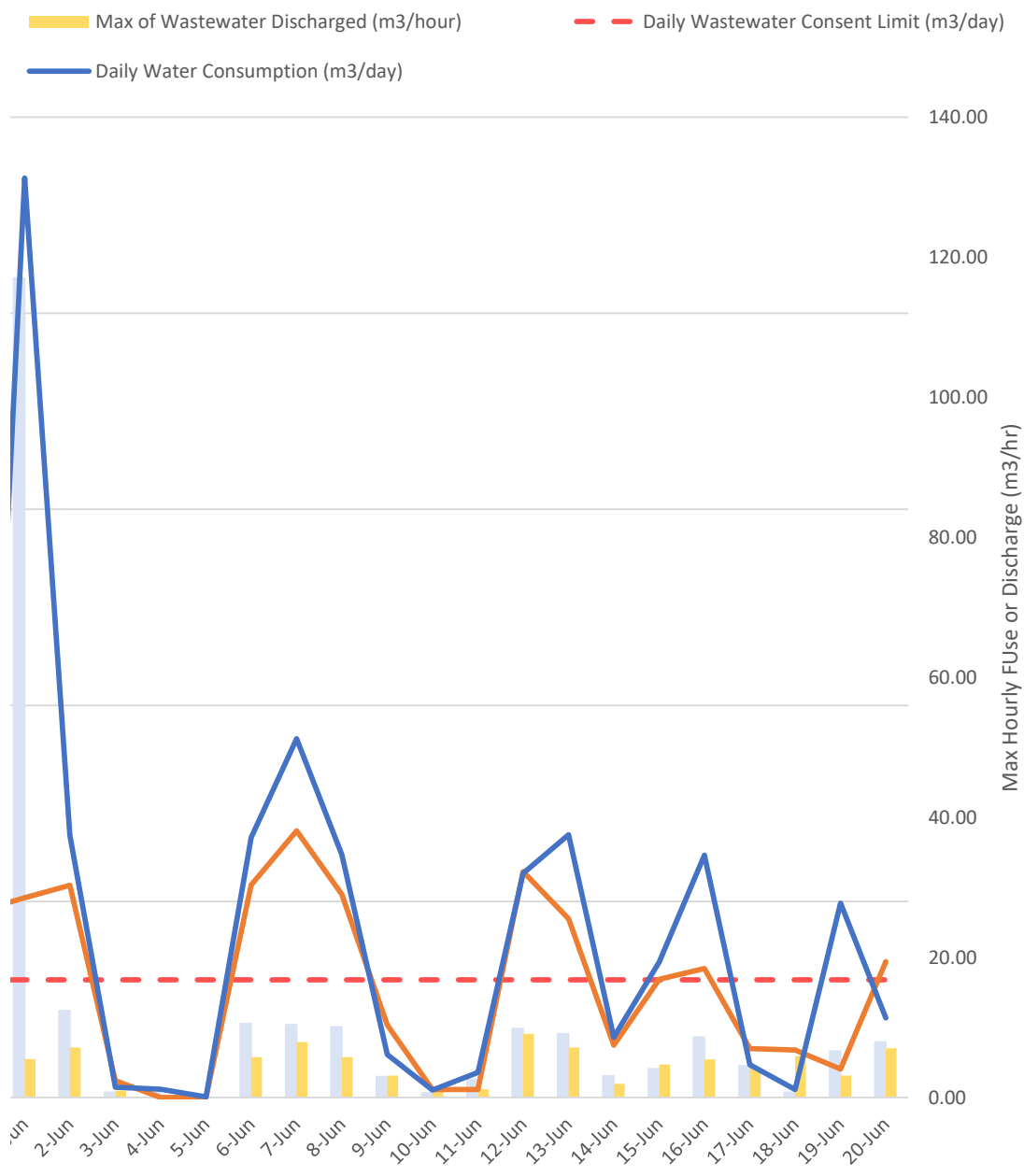


Goes red if over 2 litres/second (7.2 cubic meters/hour)





Wastewater Discharges and Potable Use









Tab	Policy
Subgroup	SCADA
Parameter	Tuatara water consumption
Tag	5:1004
Units	litres
Operations Min	
Operations Max	
Trigger Min	
Trigger Max	
92% Min	
92% Max	
95% Min	
95% Max	
98% Min	
98% Max	
99% Min	
99% Max	
Medium Min	
Medium Max	
Sample Months	
Days Between Samples	
Description	Tracking Tuatara water use
Parameter ID	38926

Date	Time	Value
20/06/2023	00:00:00	120550470
20/06/2023	01:00:00	120550470
20/06/2023	02:00:00	120550470
20/06/2023	03:00:00	120550470
20/06/2023	04:00:00	120550470
20/06/2023	05:00:00	120550470
20/06/2023	06:00:00	120550473
20/06/2023	07:00:00	120553369.2
20/06/2023	08:00:00	120561270
20/06/2023	09:00:00	120564146.3
20/06/2023	10:00:00	120564239.1
20/06/2023	11:00:00	120566009.9
20/06/2023	12:00:00	120570234.4
20/06/2023	13:00:00	120570666
20/06/2023	14:00:00	120570692.1



20/06/2023	15:00:00	120570720
20/06/2023	16:00:00	
20/06/2023	17:00:00	
20/06/2023	18:00:00	
20/06/2023	19:00:00	
20/06/2023	20:00:00	
20/06/2023	21:00:00	
20/06/2023	22:00:00	
20/06/2023	23:00:00	



Policy
SCADA
Tuatara wastewater flows
5:1497
litres

Policy
SCADA
Unknown

tracking Tuatara wastewater discharges. Meter:S18312200
39395 39396

Value	Value
53910940.22	Warning: Parameter has no associated SCAL
53915794	
53919395	
53923233.33	
53929138.19	
53936159.58	
53942346.25	
53945186.5	
53945550	
53945550	
53945550	
53945550	
53945550	
53945550	
53945550	



53945550



0A tags



Tab	Policy	Policy	Policy
Subgroup	SCADA	SCADA	SCADA
Parameter	Tuatara w	Tuatara w	Unknown
Tag	5:1004	5:1497	
Units	litres	litres	
Operations Min			
Operations Max			
Trigger Min			
Trigger Max			
92% Min			
92% Max			
95% Min			
95% Max			
98% Min			
98% Max			
99% Min			
99% Max			
Medium Min			
Medium Max			
Sample Months			
Days Between Samples			
Description	Tracking T tracking Tuatara wastewater discharges. Meter:S183122		
Parameter ID	38926	39395	39396

Date	Time	Value	Value	Value
#####	00:00:00	1.19E+08	53086650	Warning: Parameter has no associated SCAD
#####	01:00:00	1.19E+08	53086650	
#####	02:00:00	1.19E+08	53086650	
#####	03:00:00	1.19E+08	53086650	
#####	04:00:00	1.19E+08	53086650	
#####	05:00:00	1.19E+08	53086650	
#####	06:00:00	1.19E+08	53086650	
#####	07:00:00	1.19E+08	53086650	
#####	08:00:00	1.19E+08	53086650	
#####	09:00:00	1.19E+08	53086650	
#####	10:00:00	1.19E+08	53086650	
#####	11:00:00	1.19E+08	53086650	
#####	12:00:00	1.19E+08	53086650	
#####	13:00:00	1.19E+08	53086650	
#####	14:00:00	1.19E+08	53086650	



#####	15:00:00	1.19E+08	53086650
#####	16:00:00	1.19E+08	53086650
#####	17:00:00	1.19E+08	53086650
#####	18:00:00	1.19E+08	53086650
#####	19:00:00	1.19E+08	53086650
#####	20:00:00	1.19E+08	53086650
#####	21:00:00	1.19E+08	53086650
#####	22:00:00	1.19E+08	53086650
#####	23:00:00	1.19E+08	53086650
#####	00:00:00	1.19E+08	53086650
#####	01:00:00	1.19E+08	53086650
#####	02:00:00	1.19E+08	53086939
#####	03:00:00	1.19E+08	53087900
#####	04:00:00	1.19E+08	53088450
#####	05:00:00	1.19E+08	53089662
#####	06:00:00	1.19E+08	53090954
#####	07:00:00	1.19E+08	53093963
#####	08:00:00	1.2E+08	53097509
#####	09:00:00	1.2E+08	53099804
#####	10:00:00	1.2E+08	53103826
#####	11:00:00	1.2E+08	53107997
#####	12:00:00	1.2E+08	53112698
#####	13:00:00	1.2E+08	53115843
#####	14:00:00	1.2E+08	53117216
#####	15:00:00	1.2E+08	53117850
#####	16:00:00	1.2E+08	53120217
#####	17:00:00	1.2E+08	53123047
#####	18:00:00	1.2E+08	53123850
#####	19:00:00	1.2E+08	53123850
#####	20:00:00	1.2E+08	53123850
#####	21:00:00	1.2E+08	53123850
#####	22:00:00	1.2E+08	53123850
#####	23:00:00	1.2E+08	53123850
#####	00:00:00	1.2E+08	53123850
#####	01:00:00	1.2E+08	53123850
#####	02:00:00	1.2E+08	53123850
#####	03:00:00	1.2E+08	53123850
#####	04:00:00	1.2E+08	53123850
#####	05:00:00	1.2E+08	53123850
#####	06:00:00	1.2E+08	53123850
#####	07:00:00	1.2E+08	53125006
#####	08:00:00	1.2E+08	53127699
#####	09:00:00	1.2E+08	53129050
#####	10:00:00	1.2E+08	53129050
#####	11:00:00	1.2E+08	53130090
#####	12:00:00	1.2E+08	53132064
#####	13:00:00	1.2E+08	53133297
#####	14:00:00	1.2E+08	53133666
#####	15:00:00	1.2E+08	53133923
#####	16:00:00	1.2E+08	53134050
#####	17:00:00	1.2E+08	53134050



#####	18:00:00	1.2E+08	53134050
#####	19:00:00	1.2E+08	53134050
#####	20:00:00	1.2E+08	53134050
#####	21:00:00	1.2E+08	53134050
#####	22:00:00	1.2E+08	53134050
#####	23:00:00	1.2E+08	53134050
#####	00:00:00	1.2E+08	53134050
#####	01:00:00	1.2E+08	53134050
#####	02:00:00	1.2E+08	53134050
#####	03:00:00	1.2E+08	53134050
#####	04:00:00	1.2E+08	53134975
#####	05:00:00	1.2E+08	53136171
#####	06:00:00	1.2E+08	53137939
#####	07:00:00	1.2E+08	53140917
#####	08:00:00	1.2E+08	53145011
#####	09:00:00	1.2E+08	53149437
#####	10:00:00	1.2E+08	53151250
#####	11:00:00	1.2E+08	53156228
#####	12:00:00	1.2E+08	53163206
#####	13:00:00	1.2E+08	53168832
#####	14:00:00	1.2E+08	53173696
#####	15:00:00	1.2E+08	53178732
#####	16:00:00	1.2E+08	53183481
#####	17:00:00	1.2E+08	53185250
#####	18:00:00	1.2E+08	53185250
#####	19:00:00	1.2E+08	53185250
#####	20:00:00	1.2E+08	53185250
#####	21:00:00	1.2E+08	53185250
#####	22:00:00	1.2E+08	53185250
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#####	22:00:00	1.21E+08	53905850
#####	23:00:00	1.21E+08	53906505

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0A tags

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/20/2023 03:12:57 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>; Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Afternoon Sean,

This is great news, thank you. We are already underway with various improvement measures, which if successful will see us take a step in the right direction.

Thanks and Ill be in contact with our long term improvement plan in July. Cheers, Tupu

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Tuesday, 20 June 2023 9:04 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Lauren Mentjox <[REDACTED]> Kim Kennedy <[REDACTED]>
Subject: RE: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Tupu,

Thanks for the update and an extension to your existing Trade Waste arrangement until we have had an opportunity to review your improvement plan and agree on a future course of action is agreed.

Cheers

Sean Mallon
Group Manager Infrastructure Services
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Sunday, 11 June 2023 4:19 pm
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery

Hi Sean,

Thank you for your time on Wednesday. Lauren and I believe it was a productive discussion on Tuatara Brewery and the role we play in the Kapiti community.

Tuatara Brewery plays an important role for DB as the 'home of craft', which has historically strong links to the Kapiti Coast. As such, DB is committed to the Kapiti Coast and working together with the Council.

In recent months, Tuatara has worked with the Council water and wastewater team to collect data on the brewery's wastewater discharge. As we continue to gather data, primarily production volume and correlating wastewater volume, and ultimately how waste can be mitigated, we respectfully request an extension to our existing Annual Trade Waste Discharge Consent.

As a clearer picture of our discharge develops, we will develop a plan outlining the steps we will take to meet the 2019 Kapiti Coast Bylaw conditions. We will share a 12-month improvement plan with clear goals and timelines with you before 31 July 2023. If you agree with this plan, we would hope that Tuatara could be granted an extension or dispensation for the next 12 months to allow the business to continue to operate while we carry out the improvements.

Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur <[REDACTED]>
Sent time: 06/16/2023 04:40:13 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image003.jpg image001.png

Hi Tupu,

COD came back at 5012 g/m3. We will wait for the other samples next week and report all of the results together once the work is completed.

Many thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Kim Mazur
Sent: Friday, June 16, 2023 4:31 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

Thanks we will just do the COD. They are almost finished.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, June 16, 2023 2:51 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

If you can be bothered this late on a Friday, then go ahead and do the BOD.

I'll be bringing in a few more samples next week so we can always catch up on BOD sampling then.

Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Friday, 16 June 2023 1:26 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

We received the sample from you. I see COD is written on the bottle. We will measure this today. Do you still want us to test the BOD once we have the COD result. Both are different parameters. COD chemical oxygen demand, BOD Biological oxygen demand. COD does give us an indication on the dilution required to do the BOD test, as mentioned to you in the past email. Both parameters are needed for load assessments on Waste water plants.

Please let me know as we can start the BOD testing today also. Remember BOD takes 5 days before we have a result.

Thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 1:08 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
That's fine. Address for drop off? Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 12:41 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

Would you mind if we did a COD first. This gives us an indication on of the dilution required otherwise we will end up having to retest the sample and re dilute. BOD takes 5 days to get an answer, so if we have to redilute the samples you will be waiting a further 5 days. COD incubation take 2 hours.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 10:38 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,
Ill just test BOD, as an indicator. If I get on top of that everything else should fall into line. Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 8:59 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 8:15 AM

To: Kim Mazur <[REDACTED]>

Subject: WW samples

Hi Kim,

Would it be okay if I started bringing in some samples for testing? We have done some work on our waste and am wanting to see what impact it has had on our discharge.

Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur <[REDACTED]>
Sent time: 06/16/2023 04:30:34 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image003.jpg image002.png

Hi Tupu,

Thanks we will just do the COD. They are almost finished.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, June 16, 2023 2:51 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

If you can be bothered this late on a Friday, then go ahead and do the BOD.

I'll be bringing in a few more samples next week so we can always catch up on BOD sampling then.

Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Friday, 16 June 2023 1:26 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

We received the sample from you. I see COD is written on the bottle. We will measure this today. Do you still want us to test the BOD once we have the COD result. Both are different parameters. COD chemical oxygen demand, BOD Biological oxygen demand. COD does give us an indication on the dilution required to do the BOD test, as mentioned to you in the past email. Both parameters are needed for load assessments on Waste water plants.

Please let me know as we can start the BOD testing today also. Remember BOD takes 5 days before we have a result.

Thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 1:08 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples

Hi Kim,

That's fine. Address for drop off? Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 12:41 pm

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Hi Tupu,

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Cheers

Kim Mazur
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Te Kaiwhakahaere Pūtaiao

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Tel [REDACTED]

Mobile [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 10:38 AM

To: Kim Mazur <[REDACTED]>

Subject: RE: WW samples

Hi Kim,

I'll just test BOD, as an indicator. If I get on top of that everything else should fall into line. Thanks, Tupu

From: Kim Mazur <[REDACTED]>

Sent: Thursday, 15 June 2023 8:59 am

To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Subject: RE: WW samples

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur
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Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Thursday, June 15, 2023 8:15 AM

To: Kim Mazur <[REDACTED]>

Subject: WW samples

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Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/16/2023 02:50:41 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples
Attachments: image001.png image003.jpg

Hi Kim,
If you can be bothered this late on a Friday, then go ahead and do the BOD.
Ill be bringing in a few more samples next week so we can always catch up on BOD sampling then.
Cheers, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Friday, 16 June 2023 1:26 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Hi Tupu,

We received the sample from you. I see COD is written on the bottle. We will measure this today. Do you still want us to test the BOD once we have the COD result. Both are different parameters. COD chemical oxygen demand, BOD Biological oxygen demand. COD does give us an indication on the dilution required to do the BOD test, as mentioned to you in the past email. Both parameters are needed for load assessments on Waste water plants.

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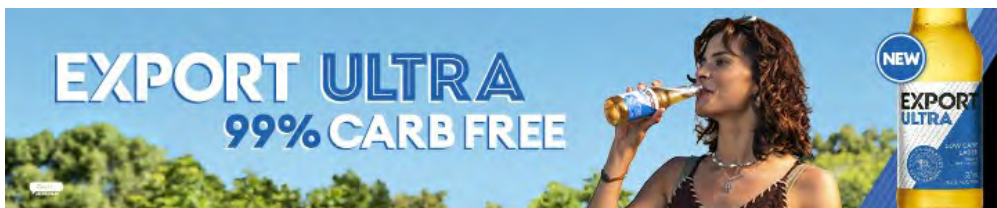
Kāpiti Coast District Council
Tel [REDACTED]
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Sent time: 06/16/2023 01:26:21 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image003.jpg image002.png

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Mobile: [REDACTED]

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From: Kim Mazur <[REDACTED]>
Sent time: 06/15/2023 01:25:30 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image003.jpg image002.png

Hi Tupu,

The Lab is based at the Paraparaumu Wastewater treatment plant off Fytfield Place.

If you google maps type in [REDACTED] This is the last house address in the street. Go to the double gates. Press intercom button. Say you are dropping samples to the lab. Drive down past the sign that say "all must report to the Depot office" ignore that. Keep driving until the next sign – PWWTP plant and Council Lab – all visitors report at reception. Park up and then follow the sign to reception. Ring doorbell if needed. There is a drop off fridge so you can simply drop the samples in the fridge so long as they are clearly labelled. We check the fridge hourly.

Cheers

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

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Mobile: [REDACTED]
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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/15/2023 01:07:50 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: WW samples
Attachments: image001.png image003.jpg

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From: Kim Mazur <[REDACTED]>
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To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image003.jpg image002.png

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From: Kim Mazur <[REDACTED]>
Sent: Thursday, 15 June 2023 8:59 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 8:15 AM
To: Kim Mazur <[REDACTED]>
Subject: WW samples

Hi Kim,
Would it be okay if I started bringing in some samples for testing? We have done some work on our waste and am wanting to see what impact it has had on our discharge.
Just need an address to drop off to.
Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Kim Mazur <[REDACTED]>
Sent time: 06/15/2023 08:59:10 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: WW samples
Attachments: image004.jpg image002.png

Morning Tupu,

Happy to help with testing. What tests in particular are you after? Also do you want a price for the testing?

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, June 15, 2023 8:15 AM
To: Kim Mazur <[REDACTED]>
Subject: WW samples

Hi Kim,

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Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/15/2023 08:14:52 AM
To: Kim Mazur <[REDACTED]>
Subject: WW samples
Attachments: image001.png image002.jpg

Hi Kim,

Would it be okay if I started bringing in some samples for testing? We have done some work on our waste and am wanting to see what impact it has had on our discharge.

Just need an address to drop off to.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/11/2023 04:18:44 PM
To: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Cc: Lauren Mentjox <[REDACTED]>
Subject: Draft Conditional Trade Waste Consent for Tuatara Brewery
Attachments: image001.jpg

Hi Sean,

Thank you for your time on Wednesday. Lauren and I believe it was a productive discussion on Tuatara Brewery and the role we play in the Kapiti community.

Tuatara Brewery plays an important role for DB as the 'home of craft', which has historically strong links to the Kapiti Coast. As such, DB is committed to the Kapiti Coast and working together with the Council.

In recent months, Tuatara has worked with the Council water and wastewater team to collect data on the brewery's wastewater discharge. As we continue to gather data, primarily production volume and correlating wastewater volume, and ultimately how waste can be mitigated, we respectfully request an extension to our existing Annual Trade Waste Discharge Consent.

As a clearer picture of our discharge develops, we will develop a plan outlining the steps we will take to meet the 2019 Kapiti Coast Bylaw conditions. We will share a 12-month improvement plan with clear goals and timelines with you before 31 July 2023. If you agree with this plan, we would hope that Tuatara could be granted an extension or dispensation for the next 12 months to allow the business to continue to operate while we carry out the improvements.

Again, thank you for your time and understanding last week. Please let me know if you need any clarification or further information.

Kind regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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From: tamara silk [REDACTED]
Sent time: 06/01/2023 02:08:54 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Meeting with Sean Mallon
Attachments: image001.jpg image002.png image003.png

Kia ora Tupu

Great I will flick through an invite shortly, more then welcome to bring your colleague.
See you next week.

Nga mihi

Tamara Silk
Project Coordinator
Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Kāpiti Coast District Council



www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 1 June 2023 7:58 am
To: Tamara Silk <[REDACTED]>
Subject: RE: Meeting with Sean Mallon

Morena,

Confirming that I am able to make to 11am on the 7th June. Thanks for organising. I understand that Sean was wanting to keep the meeting informal, which also suits myself, but I was wanting to invite Lauren from our DB Leadership Team along to get a better understanding of challenges and risks involved with the new consent. Hope that is okay?
Thank you, Tupu

From: Tamara Silk <[REDACTED]>
Sent: Thursday, 1 June 2023 7:33 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Meeting with Sean Mallon

No worries at all Tupu I have popped in a hold.

Many thanks

Tamara Silk
Project Coordinator
Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Wednesday, 31 May 2023 3:02 pm
To: Tamara Silk <[REDACTED]>
Subject: RE: Meeting with Sean Mallon

Kia Ora Tamara,

I'm mindful that Sean's time is valuable and the 11:00 window on the 7th June may close. I'm trying to move a few things around myself so I can make this appointment. Can we pencil this time slot in and I will firm up this time by mid-morning tomorrow.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



From: Tamara Silk <[REDACTED]>
Sent: Wednesday, 31 May 2023 11:10 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Meeting with Sean Mallon

Kia ora Tupu

Touching base to set up a meeting with yourself and Sean Mallon in relation to trade waste permit application.
Can you advise if any of the below times suit:

7th June 11am
14th June 9am
23rd June 3pm

Nga mihi

Tamara Silk
Project Coordinator
Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Tel [REDACTED]
Mobile [REDACTED]



www.kapiticoast.govt.nz



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 06/01/2023 07:58:02 AM
To: tamara silk <[REDACTED]>
Subject: RE: Meeting with Sean Mallon
Attachments: image001.jpg image002.png image003.png

Morena,

Confirming that I am able to make to 11am on the 7th June. Thanks for organising. I understand that Sean was wanting to keep the meeting informal, which also suits myself, but I was wanting to invite Lauren from our DB Leadership Team along to get a better understanding of challenges and risks involved with the new consent. Hope that is okay?

Thank you, Tupu

From: Tamara Silk <[REDACTED]>
Sent: Thursday, 1 June 2023 7:33 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: Meeting with Sean Mallon

No worries at all Tupu I have popped in a hold.

Many thanks

Tamara Silk
Project Coordinator
Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Wednesday, 31 May 2023 3:02 pm
To: Tamara Silk <[REDACTED]>
Subject: RE: Meeting with Sean Mallon

Kia Ora Tamara,

I'm mindful that Sean's time is valuable and the 11:00 window on the 7th June may close. I'm trying to move a few things around myself so I can make this appointment. Can we pencil this time slot in and I will firm up this time by mid-morning tomorrow.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



From: Tamara Silk <[REDACTED]>
Sent: Wednesday, 31 May 2023 11:10 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Meeting with Sean Mallon

Kia ora Tupu

Touching base to set up a meeting with yourself and Sean Mallon in relation to trade waste permit application.

Can you advise if any of the below times suit:

7th June 11am

14th June 9am

23rd June 3pm

Nga mihi

Tamara Silk

Project Coordinator

Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Tel [REDACTED]

Mobile [REDACTED]



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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 05/31/2023 03:01:45 PM
To: tamara silk <[REDACTED]>
Subject: RE: Meeting with Sean Mallon
Attachments: image003.jpg image004.png image005.png

Kia Ora Tamara,

I'm mindful that Sean's time is valuable and the 11:00 window on the 7th June may close. I'm trying to move a few things around myself so I can make this appointment. Can we pencil this time slot in and I will firm up this time by mid-morning tomorrow.

Thanks, Tupu

Tupu Gregory, Brewerv Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



From: Tamara Silk <[REDACTED]>
Sent: Wednesday, 31 May 2023 11:10 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Meeting with Sean Mallon

Kia ora Tupu

Touching base to set up a meeting with yourself and Sean Mallon in relation to trade waste permit application.

Can you advise if any of the below times suit:

7th June 11am

14th June 9am

23rd June 3pm

Nga mihi

Tamara Silk

Project Coordinator

Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Tel [REDACTED]

Mobile [REDACTED]



www.kapiticoast.govt.nz



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From: tamara silk <[REDACTED]>
Sent time: 05/31/2023 11:09:37 AM
To: Tupu.Gregory@tuatarabrewing.co.nz
Subject: Meeting with Sean Mallon
Attachments: image001.png image002.png

Kia ora Tupu

Touching base to set up a meeting with yourself and Sean Mallon in relation to trade waste permit application.
Can you advise if any of the below times suit:

7th June 11am

14th June 9am

23rd June 3pm

Nga mihi

Tamara Silk

Project Coordinator

Te Hekeritari Matua Ratonga Tūāpapa me te Rautaki me te Tupu

Tel [REDACTED]

Mobile [REDACTED]



www.kapiticoast.govt.nz







From: Kim Mazur <[REDACTED]>
Sent time: 05/08/2023 10:56:09 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>; Reuben Mackey <[REDACTED]>
Cc: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: KCDC Lab Report APR231336; 14 days Baseline testing from Tuatara Brewery Wastewater ;plus Hills Lab reports for FOG testing are enclosed.
Attachments: KCDC Lab Report APR231336.pdf 3239320-SP-1.pdf 3257514-SP-1.pdf image001.png image002.png

Hi Everyone,

Enclosed are the lab results for the 14-day baseline testing of Tuatara Brewery's Wastewater (both KCDC Lab and Hills Lab).

Tupu has given me permission to on send the results to you all.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]
Mobile [REDACTED]



www.kapiticoast.govt.nz







Hill Laboratories
TRIED, TESTED AND TRUSTED

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

T 0508 HILL LAB (44 555 22)
T +64 7 858 2000
E mail@hill-labs.co.nz
W www.hill-laboratories.com

Certificate of Analysis

Page 1 of 1

Client:	Kapiti Coast District Council	Lab No:	3239320	SPv1
Contact:	Kim Mazur	Date Received:	13-Apr-2023	
	C/- Kapiti Coast District Council	Date Reported:	19-Apr-2023	
	Private Bag 60601	Quote No:	123420	
	Paraparaumu 5254	Order No:	370615	
		Client Reference:	OAG testing	
		Submitted By:	Kim Mazur	

Sample Type: Aqueous					
Sample Name:	Tuatara Discharge 1st Day 231336 29-Mar-2023	Tuatara Discharge 2nd Day 231367 30-Mar-2023	Tuatara Discharge 3rd Day 231383 31-Mar-2023	Tuatara Discharge 4th Day 231440 04-Apr-2023 2:00 pm	Tuatara Discharge 5th Day 231442 05-Apr-2023 9:00 am
Lab Number:	3239320.1	3239320.2	3239320.3	3239320.4	3239320.5
Oil and Grease g/m ³	132	270	1,010	60	300
Sample Name:	Tuatara Discharge 6th Day 231483 06-Apr-2023				
Lab Number:	3239320.6				
Oil and Grease g/m ³	270				

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous			
Test	Method Description	Default Detection Limit	Sample No
Oil and Grease	Sample filtration through filter aid, Soxhlet extraction, gravimetric determination of extracted Oil & Grease. APHA 5520 D (modified) 23 rd ed. 2017.	4 g/m ³	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 19-Apr-2023. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Graham Corban MSc Tech (Hons)
Client Services Manager - Environmental



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R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

T 0508 HILL LAB (44 555 22)
T +64 7 858 2000
E mail@hill-labs.co.nz
W www.hill-laboratories.com

Certificate of Analysis

Page 1 of 1

Client:	Kapiti Coast District Council	Lab No:	3257514	SPv1
Contact:	Kim Mazur	Date Received:	27-Apr-2023	
	C/- Kapiti Coast District Council	Date Reported:	04-May-2023	
	Private Bag 60601	Quote No:	123420	
	Paraparaumu 5254	Order No:	370615	
		Client Reference:	OAG testing	
		Submitted By:	Kim Mazur	

Sample Type: Aqueous

Sample Name:	Tuatara Discharge Tank Day 7 231576 12-Apr-2023	Tuatara Day 8 231580 19-Apr-2023 9:00 am	Tuatara Discharge Tank Day 9 231604 14-Apr-2023	Tuatara Discharge Day10 231627 15-Apr-2023	Tuatara Discharge Tank Day 11 231652 18-Apr-2023 9:00 am
Lab Number:	3257514.1	3257514.2	3257514.3	3257514.4	3257514.5
Oil and Grease g/m ³	40	220	14	63	62

Sample Name:	Tuatara Discharge Tank Day 12 231674 19-Apr-2023	Tuatara Discharge Day 13 231691 20-Apr-2023 9:00 am	Tuatara 231706 21-Apr-2023 9:00 am
Lab Number:	3257514.6	3257514.7	3257514.8
Oil and Grease g/m ³	112	29	84

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous

Test	Method Description	Default Detection Limit	Sample No
Oil and Grease	Sample filtration through filter aid, Soxhlet extraction, gravimetric determination of extracted Oil & Grease. APHA 5520 D (modified) 23 rd ed. 2017.	4 g/m ³	1-8

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 04-May-2023. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental



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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	APR 231336
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Day number			1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sample Collection Date			29-Mar-23	30-Mar-23	31-Mar-23	4-Apr-23	5-Apr-23	6-Apr-23	12-Apr-23	13-Apr-23	14-Apr-23	15-Apr-23	18-Apr-23	19-Apr-23	20-Apr-23	21-Apr-23
Time of Arrival at the KCDC Lab			9:15	9:00	9:00	14:00	9:00	9:15	11:00	9:00	9:00	11:30	9:00	8:30	8:30	9:00
KDCD Laboratory Log Number			231336	231367	231383	231440	231442	231483	231576	231580	231604	231627	231652	231674	231691	231706
	Lab Used	Method														
Temp on arrival to Lab °C	KCDC	Standard Methods 23rd Edition 2550 B	19.9	19.8	20.0	19.9	20.1	21.5	20.8	21.1	19.7	21.1	20.8	21.1	21.1	22.6
pH	KCDC	Standard Methods 23rd Edition 4500-H ⁺ B	5.1	5.30	4.48	5.71	5.13	4.71	6.38	5.24	5.68	4.72	5.90	4.92	5.10	4.95
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 23rd Edition 2540 D	2206	5006	11616	1287	2930	3070	449	3458	432	1606	839	3200	2523	3438
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	17.1	16.2	30.4	14.6	24.2	24.4	13.3	17.2	15.4	12.5	27.2	28.2	16.3	15.3
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	109	131	360	97	244	224	84	162	50	110	98	260	226	288
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	14075	17600	28450	4190	17800	21325	4030	13680	7130	6890	5580	27120	17500	23550
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 23rd Edition 5210 B	6440	8550	45360	2150	9225	13613	2400	5850	3218	4340	3225	11490	7080	8680
Fats, Oil and Grease (FOG)	Hills	See Hills Report	See Hills Report													

Any queries relating to this report should be addressed to the Laboratory Manager at the
Full details of the methods used are available on request.

Reported by:  DATE: 4/05/2023
Kim Mazur Laboratory Manager
KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU

From: Kim Mazur <[REDACTED]>
Sent time: 05/08/2023 10:50:36 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: RE: KCDC Lab Report APR231336; 14 days Baseline testing from Tuatara Brewery Wastewater ;plus Hills Lab reports for FOG testing are enclosed.
Attachments: image001.png image002.png

Hi Tupu,

Interesting that Hills would not give you the information. I guess that is likely due to the fact that KCDC pays for the test.

Brilliant that you found the method. I will email Hills also so that we have there take on the testing.

Many thanks

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, May 8, 2023 10:36 AM
To: Kim Mazur <[REDACTED]>
Subject: RE: KCDC Lab Report APR231336; 14 days Baseline testing from Tuatara Brewery Wastewater ;plus Hills Lab reports for FOG testing are enclosed.

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Subject: RE: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

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Thanks once again for our visit yesterday. As promised attached are the prices for the baseline testing required for Tuatara's Wastewater Discharge. I have enclosed the Hills Laboratory quote (per day) and our quote for KCDC Laboratory. As I mentioned Hills testing is cheaper however by the time you add in the cost of collection of samples, preparation of samples to be sent to the Hills Lab, courier of the samples to Hills lab, the KCDC Cost is lower.

We have collected a sample today and will be running tests here at KCDC as a trial run – no charge. FOG has not been conducted thou. I have discussed with Ramesh, Grant and Reuben to not start the 14 days sampling until you let us know what Lab you wish to proceed with. As soon as inform us we will commence the sampling and testing.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]
Mobile [REDACTED]



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From: Kim Mazur <[REDACTED]>
Sent time: 05/05/2023 05:57:55 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: KCDC Lab Report APR231336; 14 days Baseline testing from Tuatara Brewery Wastewater ;plus Hills Lab reports for FOG testing are enclosed.
Attachments: image001.png image002.png KCDC Lab Report APR231336.pdf 3239320-SP-1.pdf 3257514-SP-1.pdf

Hi Tupu,

Enclosed are the lab results for the 14-day baseline testing of Tuatara Brewery's Wastewater (both KCDC Lab and Hills Lab). An invoice for this testing will follow in due course.

Before I can pass this information onto anyone else, I need written permission from you that you are happy for me to do so.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, April 3, 2023 3:03 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

Hi Kim,

Just checking in on how the sampling has been going. Have you managed to gain access to site okay and collect each day? Are you able to share any preliminary results?

Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 29 March 2023 12:20 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]> Reuben Mackey <[REDACTED]> Tess Drewitt <[REDACTED]>
Subject: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

Dear Tupu,

Thanks once again for our visit yesterday. As promised attached are the prices for the baseline testing required for Tuatara's Wastewater Discharge. I have enclosed the Hills Laboratory quote (per day) and our quote for KCDC Laboratory. As I mentioned Hills testing is cheaper however by the time you add in the cost of collection of samples, preparation of samples to be sent to the Hills Lab, courier of the samples to Hills lab, the KCDC Cost is lower.

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Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]

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Hill Laboratories
TRIED, TESTED AND TRUSTED

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

T 0508 HILL LAB (44 555 22)
T +64 7 858 2000
E mail@hill-labs.co.nz
W www.hill-laboratories.com

Certificate of Analysis

Page 1 of 1

Client:	Kapiti Coast District Council	Lab No:	3239320	SPv1
Contact:	Kim Mazur	Date Received:	13-Apr-2023	
	C/- Kapiti Coast District Council	Date Reported:	19-Apr-2023	
	Private Bag 60601	Quote No:	123420	
	Paraparaumu 5254	Order No:	370615	
		Client Reference:	OAG testing	
		Submitted By:	Kim Mazur	

Sample Type: Aqueous					
Sample Name:	Tuatara Discharge 1st Day 231336 29-Mar-2023	Tuatara Discharge 2nd Day 231367 30-Mar-2023	Tuatara Discharge 3rd Day 231383 31-Mar-2023	Tuatara Discharge 4th Day 231440 04-Apr-2023 2:00 pm	Tuatara Discharge 5th Day 231442 05-Apr-2023 9:00 am
Lab Number:	3239320.1	3239320.2	3239320.3	3239320.4	3239320.5
Oil and Grease g/m ³	132	270	1,010	60	300
Sample Name:	Tuatara Discharge 6th Day 231483 06-Apr-2023				
Lab Number:	3239320.6				
Oil and Grease g/m ³	270				

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous			
Test	Method Description	Default Detection Limit	Sample No
Oil and Grease	Sample filtration through filter aid, Soxhlet extraction, gravimetric determination of extracted Oil & Grease. APHA 5520 D (modified) 23 rd ed. 2017.	4 g/m ³	1-6

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 19-Apr-2023. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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G (ons)
Client Services Manager - Environmental



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R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

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T +64 7 858 2000
E mail@hill-labs.co.nz
W www.hill-laboratories.com

Certificate of Analysis

Page 1 of 1

Client:	Kapiti Coast District Council	Lab No:	3257514	SPv1
Contact:	Kim Mazur	Date Received:	27-Apr-2023	
	C/- Kapiti Coast District Council	Date Reported:	04-May-2023	
	Private Bag 60601	Quote No:	123420	
	Paraparaumu 5254	Order No:	370615	
		Client Reference:	OAG testing	
		Submitted By:	Kim Mazur	

Sample Type: Aqueous

Sample Name:	Tuatara Discharge Tank Day 7 231576 12-Apr-2023	Tuatara Day 8 231580 19-Apr-2023 9:00 am	Tuatara Discharge Tank Day 9 231604 14-Apr-2023	Tuatara Discharge Day10 231627 15-Apr-2023	Tuatara Discharge Tank Day 11 231652 18-Apr-2023 9:00 am
Lab Number:	3257514.1	3257514.2	3257514.3	3257514.4	3257514.5
Oil and Grease g/m ³	40	220	14	63	62

Sample Name:	Tuatara Discharge Tank Day 12 231674 19-Apr-2023	Tuatara Discharge Day 13 231691 20-Apr-2023 9:00 am	Tuatara 231706 21-Apr-2023 9:00 am
Lab Number:	3257514.6	3257514.7	3257514.8
Oil and Grease g/m ³	112	29	84

Summary of Methods

The following table(s) gives a brief description of the methods used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses were performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Aqueous

Test	Method Description	Default Detection Limit	Sample No
Oil and Grease	Sample filtration through filter aid, Soxhlet extraction, gravimetric determination of extracted Oil & Grease. APHA 5520 D (modified) 23 rd ed. 2017.	4 g/m ³	1-8

These samples were collected by yourselves (or your agent) and analysed as received at the laboratory.

Testing was completed on 04-May-2023. For completion dates of individual analyses please contact the laboratory.

Samples are held at the laboratory after reporting for a length of time based on the stability of the samples and analytes being tested (considering any preservation used), and the storage space available. Once the storage period is completed, the samples are discarded unless otherwise agreed with the customer. Extended storage times may incur additional charges.

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Ara Heron BSc (Tech)
Client Services Manager - Environmental



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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Laboratory Report No:	APR 231336
Client: DB Breweries - Tuatara	
Water Sample Analysis: Wastewater from Tuatara Brewery	



Sample Day number			1	2	3	4	5	6	7	8	9	10	11	12	13	14
Sample Collection Date			29-Mar-23	30-Mar-23	31-Mar-23	4-Apr-23	5-Apr-23	6-Apr-23	12-Apr-23	13-Apr-23	14-Apr-23	15-Apr-23	18-Apr-23	19-Apr-23	20-Apr-23	21-Apr-23
Time of Arrival at the KCDC Lab			9:15	9:00	9:00	14:00	9:00	9:15	11:00	9:00	9:00	11:30	9:00	8:30	8:30	9:00
KCDC Laboratory Log Number			231336	231367	231383	231440	231442	231483	231576	231580	231604	231627	231652	231674	231691	231706
	Lab Used	Method														
Temp on arrival to Lab °C	KCDC	Standard Methods 23rd Edition 2550 B	19.9	19.8	20.0	19.9	20.1	21.5	20.8	21.1	19.7	21.1	20.8	21.1	21.1	22.6
pH	KCDC	Standard Methods 23rd Edition 4500-H ⁺ B	5.1	5.30	4.48	5.71	5.13	4.71	6.38	5.24	5.68	4.72	5.90	4.92	5.10	4.95
Total Suspended Solids (TSS) g/m ³	KCDC	Standard Methods 23rd Edition 2540 D	2206	5006	11616	1287	2930	3070	449	3458	432	1606	839	3200	2523	3438
Total phosphorus (TP) g/m ³	KCDC	Hach TNT Method 10209	17.1	16.2	30.4	14.6	24.2	24.4	13.3	17.2	15.4	12.5	27.2	28.2	16.3	15.3
Total Nitrogen (TN) g/m ³	KCDC	ThermoFisher Method ACD007	109	131	360	97	244	224	84	162	50	110	98	260	226	288
Chemical Oxygen Demand (COD) g/m ³	KCDC	Hach TNT Method 8000	14075	17600	28450	4190	17800	21325	4030	13680	7130	6890	5580	27120	17500	23550
Biochemical Oxygen Demand (BOD ₅) g/m ³	KCDC	Standard Methods 23rd Edition 5210 B	6440	8550	45360	2150	9225	13613	2400	5850	3218	4340	3225	11490	7080	8680
Fats, Oil and Grease (FOG)	Hills	See Hills Report	See Hills Report													

Any queries relating to this report should be addressed to the Laboratory Manager at the
Full details of the methods used are available on request.

Reported by: DATE: 4/05/2023

Kim Mazur Laboratory Manager

KCDC LABORATORY, FYTEFIELD PLACE, PARAPARAUMU



From: Tess Drewitt <[REDACTED]>
Sent time: 05/03/2023 01:37:08 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: FW: Draft Trade Waste Permit Conditions
Attachments: image001.png image002.png

Kia ora Tupu

Please see our comments in red below.

If you need any more guidance, we can meet with you again to discuss your options for a temporary solution (e.g. sucker truck) for managing trade waste above the consented limits.

We will look to issue the consent once we've reviewed the sampling results, so please let us know if you have any outstanding concerns.

Nga mihi nui,
Tess

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Wednesday, April 12, 2023 8:16 AM
To: Tess Drewitt <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Draft Trade Waste Permit Conditions

Hi Tess,

As communicated in our meeting on 23 March, we have three main concerns in the proposed conditions, and the impact these could potentially have on Tuatara and the operation of the business. We acknowledge that sampling and verification of discharge volumes is required, but we are concerned that results may indicate that we may not currently meet the proposed conditions:

1. Discharge hours 4pm-4am. Tuatara currently does not have the capacity to store waste during normal business and production hours, to allow for discharge between 4pm and 4am. Whilst we are willing to investigate procuring suitable storage vessels (as noted in item 12 of the proposed consent conditions), this will take time and involve structural approval and landlord approval (amongst other things), so we request the ability to discharge at any time whilst the investigations are taking place. **We appreciate that this is a difficult situation for you. However, maintaining the integrity and capacity of the WWTP, and complying with the conditions of our resource consent, are paramount to KCDC. Unfortunately, we cannot accommodate this volume of trade waste during the day in our system. While you are investigating landowner approval and options/storage vessels to hold trade waste and discharge during these hours, we suggest you look at temporary solutions (e.g. getting a contractor to collect/store trade waste outside of these hours) so you can meet the conditions of your permit.**
2. In relation to the maximum volume discharge, data collected to date shows a peak daily discharge volume of 65m³ with a 7day average of 40m³/day. On reviewing our correspondence to date, you may have used an indicative figure we initially provided of 30m³/day. I note your comment that the maximum discharge volume could be reviewed if operations expanded – and given the significant recent growth in the hazy style of beer that we produce at Tuatara, this 30m³/day limit will not be sufficient for current production levels. We therefore request an amendment to the proposed maximum volume discharge limits to a 7 day average of 40m³/day with a peak daily discharge volume of 65m³. I confirm that waste reducing initiatives and improvements are already underway on site. There is not one single solution, however many minor savings are being identified from the work we are doing (and continue to do). **As above, we cannot accommodate this volume of trade waste in our system. While you're investigating options to increase storage on site, we suggest you identify a temporary solution for storage for excess trade waste above the 30m3 limit (as per above advice).**
3. Composite sampling from other breweries operated by DB indicates Tuatara will exceed the following discharge g/m³ maximums for COD, BOD, TN and Sulphide. Despite best efforts, we have not been able to secure our own composite sampler, but we have gladly accepted the loan unit off KCDC for the purpose of a 2 week sampling period, as installed on the 28th March. **Great- I will touch base with Kim to get a copy of these results before we update and issue the permit.**

We acknowledge Council's requirement for us to investigate options for cleaner production techniques at Item 13, and are already exploring ways to sell/remove high BOD waste stream (yeast) to avoid the Council system. **Great.**

We are keen to work with you, particularly during the initial 2 week testing period prior to the consent being granted to ensure we will be able to comply with the consent as granted. As of 29th March, sampling of the waste water discharge has begun with

collection and testing is been undertaken by KCDC laboratory. The installation of live telemetry is planned for the week commencing 11/04/23. Great.

Thanks for ongoing engagement, and appreciate your consideration on these concerns.
Regards, Tupu

From: Tess Drewitt <[REDACTED]>
Sent: Monday, 20 February 2023 5:18 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: Draft Trade Waste Permit Conditions

Kia ora Tupu

Thanks for meeting with us last week. We've now put together the draft conditions for your Trade Waste Permit. As discussed at our meeting, the conditions will be finalized once we have received results from your initial 2-week sampling period of the quality of the discharge. Specifically, we want to make sure that the maximum concentrations outlined in Condition 4 are accurate and that the maximum volume of 30m3/day is also achievable. This initial sampling should capture TSS, COD/BOD, TN and TP. We will also need daily volume over the same period.

I've attached the draft conditions for your comment. Key points following the meeting:

- The maximum discharge volume is 30m3/day (this can be reviewed if operations expand).
- The discharge characteristics will be confirmed over an initial 2-week testing period before the consent is granted.
- A flow meter will be installed the captures all flow from the site into the Council's wastewater network, and flow data will be submitted to KCDC weekly.
- A composite or digital sampler will also be installed to monitor the quality of your discharge weekly.
- You mentioned investigating an onsite storage tank to increase storage capacity on site- we've suggested you report back to us on this.
- We've also included a 12-month review clause to review the conditions once more data has been gathered about the quantity and quality of discharge.

We've also suggested an initial permit term of 2-years.

Please let us know if you have any questions/comments on these conditions. Also please confirm when you will be commencing the 2-week sampling.

Thanks,
Tess

Tess Drewitt
Compliance Consultant to Kāpiti Coast District Council

Tel [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 04/12/2023 08:15:39 AM
To: Tess Drewitt <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Draft Trade Waste Permit Conditions
Attachments: image001.png image002.png

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Regards, Tupu

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Sent: Monday, 20 February 2023 5:18 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: Draft Trade Waste Permit Conditions

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We've also suggested an initial permit term of 2-years.

Please let us know if you have any questions/comments on these conditions. Also please confirm when you will be commencing the 2-week sampling.

Thanks,
Tess

Tess Drewitt
Compliance Consultant to Kāpiti Coast District Council

Tel [REDACTED]

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 04/04/2023 07:05:39 AM
To: Tom Wilson <[REDACTED]>; hayden dudek <[REDACTED]>
Subject: RE: tuatara brewery on line gear
Attachments: image001.png image002.png

Hi Tom,
Any working day is fine with us. Thanks, Tupu

From: Tom Wilson <[REDACTED]>
Sent: Monday, 3 April 2023 4:04 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear

Hi Tupu,

Is there a day next week that suits for install?

Tom Wilson
Electrical Systems Engineer
Te kaupūkaha Punaha Hiko

Kāpiti Coast District Council
Tel [REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Grant Stuart <[REDACTED]>
Sent: Monday, April 3, 2023 3:10 PM
To: Tom Wilson <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: FW: tuatara brewery on line gear

Hi tom

Can we go ahead please with on line gear at tuatara brewery Tupu has given us a order number for this work

Which is **TGTUA1889**

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council
[REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 3 April 2023 3:05 PM
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Hi Grant,
Should you require a PO, please use TGTUA1889.
Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 24 March 2023 3:22 pm
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Brilliant, thanks for following up. I am happy to go ahead with the install with the below costings.
Thanks, Tupu

From: Grant Stuart <[REDACTED]>
Sent: Friday, 24 March 2023 1:08 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear

Hi Tupu

If you email below is costing for on line gear.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tom Wilson <[REDACTED]>
Sent: Friday, 24 March 2023 9:21 AM
To: Grant Stuart <[REDACTED]>
Subject: RE: tuatara brewery on line gear

Hi Grant,

This is the breakdown of install of the Tuatara Brewery wastewater outflow Lora pulse unit and transmitter.

Hardware costs:

Lora transmitter and pulse unit \$170.00

External antenna with mounting bracket \$60.00

24VDC relay for splitting pulse between devices \$20.00

Wire, labels \$2.00

Install and testing

2.5 hours labour at \$84ish/hour

Mount antenna externally above cabinet using existing gland holes at base of cabinet to bring cable through. Mount lora unit in cabinet and connect antenna.

Currently pulse from flowmeter is going straight to PLC digital input. I will place an interfacing relay coil in parallel with the input and use the NO contact to duplicate the pulse to the Lora unit.

Testing will involve taking a manual read of flowmeter totaliser, watch a few pulses to make sure interfacing relay is working, log onto Watermetrics portal to see pulses are getting through. Visit a few days later, read flowmeter totaliser again and make sure the reading on watermetrics portal is same as difference between two totaliser readings.

Install will be pretty quick, functional testing will take longer than the install.

We already have the hardware on hand. Please let us know if you would like us to proceed with the install, Otherwise we are happy to pass the hardware onto a contractor of your choice. The challenge is I don't know any contractors locally who would know how to do this.

Thanks,

Tom

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

-

From: Grant Stuart <[REDACTED]>
Sent: Thursday, March 23, 2023 2:12 PM
To: Tom Wilson <[REDACTED]>
Subject: tuatara brewery on line gear

Hi tom

Can I have a run down on what you are going to install.

You went and had a look with ben can you put a price together for install.

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

[REDACTED]
Mobile [REDACTED]



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From: Kim Mazur <[REDACTED]>
Sent time: 04/03/2023 04:08:56 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Reuben Mackey <[REDACTED]>
Subject: RE: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing
Attachments: image001.png image002.png

Hi Tupu,

Reuben has been coming to collect the samples when you have production and from what I am aware it seems to be going ok. Samples have not been collected on non-production days. So far, we have received 3 samples with the 4th I think due tomorrow.

The FOG testing is conducted at Hills. So, we will "Batch" send these samples and then send them away. The first lot will go tomorrow or Wed. As for the testing carried out here at KCDC I can certainly send you primary result data however the BOD5 results take 5 days to incubate.

The results we have so far (note this is preliminary results only – this is not KCDC final Report) :-

Collection Date	KCDC sample Log NO:	COD g/m3	BOD g/m3	Total Nitrogen g/m3	TSS g/m3	pH	Total Phosphate g/m3	FOG
29/03/2023	231336	14075	6440	109	2206.4	5.1	Batch test	Hills
30/03/2023	231367	17600	incubating	131	4982.2	5.3	Batch test	Hills
31/3/2023	231383	28450	incubating	360	11,000	4.5	Batch test	Hills

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Kāpiti Coast District Council

Tel [REDACTED]

Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, April 3, 2023 3:03 PM
To: Kim Mazur <[REDACTED]>
Subject: RE: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

Hi Kim,
Just checking in on how the sampling has been going. Have you managed to gain access to site okay and collect each day? Are you able to share any preliminary results?
Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 29 March 2023 12:20 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]> Reuben Mackey <[REDACTED]> Tess Drewitt <[REDACTED]>
Subject: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

Dear Tupu,

Thanks once again for our visit yesterday. As promised attached are the prices for the baseline testing required for Tuatara's Wastewater Discharge. I have enclosed the Hills Laboratory quote (per day) and our quote for KCDC Laboratory. As I mentioned Hills testing is cheaper however by the time you add in the cost of collection of samples, preparation of samples to be sent to the Hills Lab, courier of the samples to Hills lab, the KCDC Cost is lower.

We have collected a sample today and will be running tests here at KCDC as a trial run – no charge. FOG has not been conducted thou. I have discussed with Ramesh, Grant and Reuben to not start the 14 days sampling until you let us know what Lab you wish to proceed with. As soon as inform us we will commence the sampling and testing.

Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]
Mobile [REDACTED]



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From: Tom Wilson <[REDACTED]>
Sent time: 04/03/2023 04:03:39 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear
Attachments: image001.png image002.png

Hi Tupu,

Is there a day next week that suits for install?

Tom Wilson
Electrical Systems Engineer
Te kaipūkaha Punaha Hiko

Kāpiti Coast District Council
Tel [REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Grant Stuart <[REDACTED]>
Sent: Monday, April 3, 2023 3:10 PM
To: Tom Wilson <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: FW: tuatara brewery on line gear

Hi tom

Can we go ahead please with on line gear at tuatara brewery Tupu has given us a order number for this work

Which is **TGTUA1889**

Cheers grant

Grant Stuart
Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council
[REDACTED]
Mobile [REDACTED]

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, 3 April 2023 3:05 PM
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Hi Grant,
Should you require a PO, please use TGTUA1889.
Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 24 March 2023 3:22 pm
To: Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Subject: RE: tuatara brewery on line gear

Brilliant, thanks for following up. I am happy to go ahead with the install with the below costings.
Thanks, Tupu

From: Grant Stuart <[REDACTED]>
Sent: Friday, 24 March 2023 1:08 pm
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: FW: tuatara brewery on line gear

Hi Tupu

If you email below is costing for on line gear.

Cheers grant

Grant Stuart

Wastewater Treatment Plants Manager
Te Kaiwhakahaere Whakapai Wai

Kāpiti Coast District Council

Mobile [REDACTED]

www.kapiticoast.govt.nz

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To: Grant Stuart <[REDACTED]>
Subject: RE: tuatara brewery on line gear

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Tom Wilson

Electrical Systems Engineer
Te kaupūkaha Punaha Hiko

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To: Tom Wilson <[REDACTED]>
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Grant Stuart
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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 03/29/2023 08:04:21 PM
To: Kim Mazur <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>; Reuben Mackey <[REDACTED]>; Tess Drewitt <[REDACTED]>
Subject: RE: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing
Attachments: image001.png image002.png

Good Evening Kim,

Thanks for sourcing the pricing. I am happy to proceed with the KCDC Laboratory conducting the sampling for the baseline sampling.

Appreciate your help, Thanks, Tupu

From: Kim Mazur <[REDACTED]>
Sent: Wednesday, 29 March 2023 12:20 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>; Reuben Mackey <[REDACTED]>; Tess Drewitt <[REDACTED]>
Subject: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing

Dear Tupu,

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Kind regards

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Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]
Mobile [REDACTED]



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From: Kim Mazur <[REDACTED]>
Sent time: 03/29/2023 12:19:56 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Grant Stuart <[REDACTED]>; Reuben Mackey <[REDACTED]>; Tess Drewitt <[REDACTED]>
Subject: Quotes for Tuatara Brewery Wastewater Discharge Baseline Testing
Attachments: Quote - 123237.pdf image001.png image002.png Tuatara Brewery Wastewater Discharge Baseline testing cost March 2023.pdf

Dear Tupu,

Thanks once again for our visit yesterday. As promised attached are the prices for the baseline testing required for Tuatara's Wastewater Discharge. I have enclosed the Hills Laboratory quote (per day) and our quote for KCDC Laboratory. As I mentioned Hills testing is cheaper however by the time you add in the cost of collection of samples, preparation of samples to be sent to the Hills Lab, courier of the samples to Hills lab, the KCDC Cost is lower.

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Kind regards

Kim Mazur
Laboratory Manager
Te Kaiwhakahaere Pūtaiao

Tel [REDACTED]
Mobile [REDACTED]



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QUOTATION

R J Hill Laboratories Limited
28 Duke Street Frankton 3204
Private Bag 3205
Hamilton 3240 New Zealand

T 0508 HILL LAB (44 555 22)
T +64 7 858 2000
E mail@hill-labs.co.nz
W www.hill-laboratories.com

Quote Number: 123237
Client Name: Kapiti Coast District Council
Primary Contact: Kim Mazur
Charge To: Kapiti Coast District Council
Quote Ref:
Fax Number: 04 904 5734 04 904 5857

Page 1 of 2

Date: 28-Mar-2023
Expires: 27-Apr-2023
From: Ara Heron
Email: ara.heron@hill-labs.co.nz
Priority: Normal

Sample Type	Details	Qty	Quote Price	Line Total
Effluent	Activities expanded below (CODTs, OAG, SS, TN, TBOD ₅ , TP) — Filtration, Unpreserved (\$11.00) — Total Kjeldahl Digestion (\$12.70) — Total Phosphorus Digestion (\$11.00) — Total Suspended Solids (\$17.70) — Total Nitrogen (\$0.00) — Nitrate-N + Nitrite-N (\$12.10) — Total Kjeldahl Nitrogen (TKN) (\$13.20) — Total Phosphorus (\$11.00) — Total Biochemical Oxygen Demand (TBOD ₅) (\$40.80) — Chemical Oxygen Demand (COD), screen level (\$23.20) — Oil and Grease (\$71.80) The following containers are required for the above analyses: 1 x S100 (Sulphuric acid pres; Polyethylene, Container Size: 100 mL) 1 x OAG500 (Sulphuric acid pres; Amber glass, Teflon lined lid, Container Size: 500 mL) 1 x UP1L (Unpreserved; Polyethylene, Container Size: 1 L) 1 x BOD (Unpreserved; Polyethylene, Container Size: 500 mL)	1	\$224.50	\$224.50
	Grand Total:			\$224.50

Notes

Quoted prices are in New Zealand Dollars (NZD) and do not include GST.

This quote is subject to our usual terms and conditions, a copy of which is available on request.

Individual dates of testing are not routinely included in the Certificate of Analysis. Please inform the laboratory if you would like this information reported.

Hill Laboratories is an IANZ Accredited Laboratory. We are Accredited for a very wide range of tests on waters, effluents, soils, sediments, plants and biota. Copies of our Accreditation are available on request.

NOTE: The estimated turnaround time for the types and number of samples and analyses specified on this quote is by 4:30 pm, 6 working days following the day of receipt of the samples at the laboratory. This turnaround time is based on the samples being received at the appropriate laboratory location.

SUMMARY OF METHODS

The following table(s) gives a brief description of the methods that will be used to conduct the analyses for this job. The detection limits given below are those attainable in a relatively simple matrix. Detection limits may be higher for individual samples should insufficient sample be available, or if the matrix requires that dilutions be performed during analysis. A detection limit range indicates the lowest and highest detection limits in the associated suite of analytes. A full listing of compounds and detection limits are available from the laboratory upon request. Unless otherwise indicated, analyses will be performed at Hill Laboratories, 28 Duke Street, Frankton, Hamilton 3204.

Sample Type: Effluent		
Test	Method Description	Default Detection Limit

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EXCELLENCE
& EXPERTISE



COMMITTED TO
EXCEPTIONAL SERVICE



STRONG DIGITAL
OFFERING



ENVIRONMENTALLY
RESPONSIBLE

Sample Type: Effluent		
Test	Method Description	Default Detection Limit
Filtration, Unpreserved	Sample filtration through 0.45µm membrane filter.	-
Total Kjeldahl Digestion	Sulphuric acid digestion with copper sulphate catalyst.	-
Total Phosphorus Digestion	Acid persulphate digestion.	-
Total Suspended Solids	Filtration using Whatman 934 AH, Advantec GC-50 or equivalent filters (nominal pore size 1.2 - 1.5µm), gravimetric determination. APHA 2540 D (modified) 23 rd ed. 2017.	3 g/m ³
Total Nitrogen	Calculation: TKN + Nitrate-N + Nitrite-N. Please note: The Default Detection Limit of 0.05 g/m ³ is only attainable when the TKN has been determined using a trace method utilising duplicate analyses. In cases where the Detection Limit for TKN is 0.10 g/m ³ , the Default Detection Limit for Total Nitrogen will be 0.11 g/m ³ . In-house calculation.	0.05 g/m ³
Nitrate-N + Nitrite-N	Total oxidised nitrogen. Automated cadmium reduction, flow injection analyser. APHA 4500-NO ₃ ⁻ I (modified) 23 rd ed. 2017.	0.002 g/m ³
Total Kjeldahl Nitrogen (TKN)	Total Kjeldahl digestion, phenol/hypochlorite colorimetry. Discrete Analyser. APHA 4500-Norg D (modified) 4500 NH ₃ F (modified) 23 rd ed. 2017.	0.10 g/m ³
Total Phosphorus	Total phosphorus digestion, automated ascorbic acid colorimetry. Flow Injection Analyser. APHA 4500-P H (modified) 23 rd ed. 2017.	0.002 g/m ³
Total Biochemical Oxygen Demand (TBOD ₅)	Incubation 5 days, DO meter, no nitrification inhibitor added, seeded. APHA 5210 B (modified) 23 rd ed. 2017.	2 g O ₂ /m ³
Chemical Oxygen Demand (COD), screen level	Dichromate/sulphuric acid digestion, colorimetry. Screen Level method. APHA 5220 D 23 rd ed. 2017.	25 g O ₂ /m ³
Oil and Grease	Sample filtration through filter aid, Soxhlet extraction, gravimetric determination of extracted Oil & Grease. APHA 5520 D (modified) 23 rd ed. 2017.	4 g/m ³



This Laboratory is accredited by International Accreditation New Zealand (IANZ).

The tests quoted herein will be performed in accordance with the terms of accreditation, with the exception of tests marked *, which are not accredited.

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STRONG DIGITAL
OFFERING



ENVIRONMENTALLY
RESPONSIBLE



KAPITI COAST DISTRICT COUNCIL LABORATORY

28 March 2023

Tupu Gregory
 Brewery Manager
 D B Breweries Ltd - Tuatara
 7 Sheffield Street
 P O Box 570
 Paraparaumu 5254

Dear Tupu

QUOTATION FOR COLLECTION AND TESTING OF SAMPLES TO MONITOR THE WASTEWATER DISCHARGE FROM TUATARA BREWERY MARCH 2023.

Enclosed is the cost for the testing / monitoring required according to the draft Trade Waste Consent Application section 4 – Discharge Characteristics. Daily collection for 2 weeks is required for baseline data. For FOG testing please see Hills Quote 123237 attached. KCDC Laboratory can send the sample for FOG testing on your behalf. FOG testing requires a specialized Glass container. Courier cost for the FOG testing will be approximately \$20.00 dollars.

Test Required Per Day (KCDC Laboratory Prices)	Quantity	Unit Cost (ext. GST)	Total
Total Suspended Solids (TSS)	1		
Total Biological Oxygen Demand (BOD)	1		
Total Nitrogen (TN)	1		
Total Phosphate (TP)	1		
Chemical Oxygen Demand (COD)	1		
Collection and travel time (20 mins approx.)	0.33		
Sub TOTAL			
<i>HILLS FOG testing</i>	1		
<i>FOG Packing & Courier cost to Hills Lab</i>	1		
Grand TOTAL			
14 days of testing	14	266.43	\$3730.02

Hills Labs Testing quote was \$224.50; see attached. However, please note that the KCDC sample collection (cost to ensure Chain of Custody \$42.90) and the Hills samples packing, and Courier cost will be additional to the Hills price. Estimate for transferring the collected sample to the 4 individual Hills sample bottles / containers: packaging of the Hills samples (Chilly Pack) and couriating of the samples to Hills Laboratory (4 sample bottles \$60.00 - estimate). Therefore, the **Hill Lab testing cost including sample collection, packaging and couriating is \$327.40 (14 days \$4583.60).**

Yours sincerely



Kim Mazur
 Laboratory Manager



From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 03/16/2023 10:55:06 AM
To: Tess Drewitt <[REDACTED]>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: Draft Trade Waste Permit Conditions
Attachments: image001.png image002.png

Hi Tess,

Apologies as I should have acknowledged the receipt of the draft [REDACTED] [REDACTED]. I have had the draft peer reviewed, which is still underway. Feedback from a few stakeholders thus far is positive. Will talk more next week.

Thanks, Tupu

From: Tess Drewitt <[REDACTED]>
Sent: Monday, 20 February 2023 5:18 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: Draft Trade Waste Permit Conditions

Kia ora Tupu

Thanks for meeting with us last week. We've now put together the draft conditions for your Trade Waste Permit. As discussed at our meeting, the conditions will be finalized once we have received results from your initial 2-week sampling period of the quality of the discharge. Specifically, we want to make sure that the maximum concentrations outlined in Condition 4 are accurate and that the maximum volume of 30m3/day is also achievable. This initial sampling should capture TSS, COD/BOD, TN and TP. We will also need daily volume over the same period.

I've attached the draft conditions for your comment. Key points following the meeting:

- The maximum discharge volume is 30m3/day (this can be reviewed if operations expand).
- The discharge characteristics will be confirmed over an initial 2-week testing period before the consent is granted.
- A flow meter will be installed to capture all flow from the site into the Council's wastewater network, and flow data will be submitted to KCDC weekly.
- A composite or digital sampler will also be installed to monitor the quality of your discharge weekly.
- You mentioned investigating an onsite storage tank to increase storage capacity on site- we've suggested you report back to us on this.
- We've also included a 12-month review clause to review the conditions once more data has been gathered about the quantity and quality of discharge.

We've also suggested an initial permit term of 2-years.

Please let us know if you have any questions/comments on these conditions. Also please confirm when you will be commencing the 2-week sampling.

Thanks,
Tess

Tess Drewitt
Compliance Consultant to Kāpiti Coast District Council

Tel [REDACTED]

www.kapiticoast.govt.nz



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From: Tess Drewitt <[REDACTED]>
Sent time: 02/20/2023 05:17:41 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: Draft Trade Waste Permit Conditions
Attachments: Draft Conditional Trade Waste Consent for Tuatara Brewery -V.1.doc image001.png image002.png

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- A flow meter will be installed the captures all flow from the site into the Council's wastewater network, and flow data will be submitted to KCDC weekly.
- A composite or digital sampler will also be installed to monitor the quality of your discharge weekly.
- You mentioned investigating an onsite storage tank to increase storage capacity on site- we've suggested you report back to us on this.
- We've also included a 12-month review clause to review the conditions once more data has been gathered about the quantity and quality of discharge.

We've also suggested an initial permit term of 2-years.

Please let us know if you have any questions/comments on these conditions. Also please confirm when you will be commencing the 2-week sampling.

Thanks,
Tess

Tess Drewitt
Compliance Consultant to Kāpiti Coast District Council

Tel [REDACTED]

www.kapiticoast.govt.nz







TRADE WASTE CONSENT FORM

Occupier's Trade Name: **D B Breweries Ltd - Tuatara**

Address of Trade Premises: 7 Sheffield Street

Postal/Charging Address: P O Box 570, PARAPARAUMU 5254

Contact Name: Brett Oliver

Phone: (027) 3204582

Email: brett@tuatarabrewing.co.nz

Trade Activity: **Brewery and Tasting Room**

In response to and in terms of the information declared in your application of **20 Jan 2023** to discharge trade waste from the above operation, the consent of the Kapiti Coast District Council is hereby given for the term and subject to the information set out below:

1. This is a replacement consent.
2. This is a conditional consent.
3. The provisions of the Kapiti Coast District Council Trade Waste Bylaw 2019 are complied with at all times unless authorised by this consent.
4. This consent is valid until **XX-02-2025. It will be reviewed at the end of year one.**
5. The trade waste discharged under this consent shall consist only of wastes from: **Brewery Effluent and Restaurant/Food Preparation**

6. This consent is subject to the conditions set out in Part 1 and Part 2.

For and on behalf of the Kapiti Coast District Council

Authorised Officer:

Name: **Ramesh Pillai**

Signature:.....

Date:.....

For office use only

Consent No.:TW0471

Valuation: 1525347600

PART 1 - GENERAL CONDITIONS FOR ALL TRADE WASTE CONSENTS

The following general conditions are summarised from the Kapiti Coast District Council Trade Waste Bylaw 2019 for your convenience but are not complete and do not replace this bylaw in any way.

1. This consent is personal to the occupier and is not transferable without written approval.
2. If the quantity of wastewater or the point of discharge is to be changed from that specified in the occupier's consent application and approved in this consent, the occupier must apply for a variation to this consent.
3. If the characteristics of the wastewater discharged is to be changed from that specified in the occupier's consent application and approved in this consent, the occupier must apply for a variation to this consent.
4. A consent can be cancelled if the occupier fails to comply with any condition of the consent or fails to maintain effective control over the discharge.
5. The occupier shall inform the Council immediately on the discovery of any occurrence, accident, spill or process mishap which may alter the quality or quantity of the final effluent discharging to the council's sewer, and which may cause a breach of this consent or the bylaw in general. The contact telephone number is (04) 296 4700.
6. Records of flow and/or volume shall be available for viewing at any time by the Council.
7. No trade waste shall be acceptable if it contains any matter or substances which are **prohibited in Schedule 2 of the bylaw.**
8. **Temperature - must not exceed 40°C unless** a higher temperature is approved in the conditions specific to this consent attached.
9. **pH - must always be between 6.0 and 10** unless a variation is approved in the conditions specific to this consent attached.
10. Solids that may block sewers or pumps are prohibited. These include **dry solids, non-faecal solids that will have a maximum dimension which must not exceed 15 mm**, heavy solids which settle faster than 50mm/minute, fibrous material, sheet films, and anything which may react to form a solid mass or interfere with the free flow of wastewater in the drainage system.
11. Solvents, fuels and organic fluids (including oil, fat and grease) must not be present as a free layer (whether floating or settled).

12. A trade waste with mineral oil, fat, or grease unavoidably emulsified, which in the opinion of the Council is not biodegradable, shall not exceed 200 g/m³ as petroleum ether extractable matter when the emulsion is stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage, throughout the range of pH 6.0 to pH 10.0.
13. Dissolved or emulsified solvents, fuels and organic liquids which exceed the levels specified in Schedule 1.2.6 of the bylaw are prohibited unless this is approved in the conditions specific to this consent attached.
14. Emulsified oils must not exceed 500g/m³, and the emulsion must be stable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage, throughout the range of pH 6 to pH 10.00.
15. Emulsified oil, fat, or grease shall not exceed 100 g/m³ as petroleum ether extractable matter when the emulsion is unstable at a temperature of 15°C and when the emulsion is in contact with and diluted by a factor of 10 by raw sewage, throughout the range of pH 6 to pH 10.0.
16. Sulphide must not exceed 5 g/m³ (as H₂S on acidification) unless this is approved in the conditions specific to this consent attached.
17. Oxidised sulphur compounds must not exceed 500g/m³ (as sulphate) unless this is approved in the conditions specific to this consent attached.
18. Toxic pollutants exceeding levels set in Schedule 1 of the bylaw are prohibited unless this is approved in the conditions specific to this consent attached.
19. Stormwater and condensing or cooling waters are prohibited unless this is approved in the conditions specific to this consent attached.

PART 2 CONDITIONS SPECIFIC TO TRADE WASTE CONSENT TW0471

1. Point of discharge

This consent is for trade waste to be discharged to the public sewer located on Sheffield Street, Paraparaumu.

2. Timing & Duration of Discharge

The occupier can discharge wastewater into the public sewer at the following days/times:

- Hours of discharge: 12-hours between 4 pm to 4 am
- Days of discharge: Monday-Sunday

3. Discharge Volume

The instantaneous flow rate of the discharge shall not exceed 2.0 L/sec between the allowed hours of discharge. No more than **30 m³** shall be discharged in any 12-hour period. Any excess (emergency) flow volume is to be retained at the site and released to the network, conforming to the flow limit, and allowed maximum temperature.

4. Discharge Characteristics

The discharge characteristics must be within the maximum concentration and mass daily limits provided in the following table or the maximum levels detailed in the bylaw, whichever is the lower value:

Characteristics	Maximum Concentration (g/m³)	Mass Limit g/day (30 m³/d)
COD	2500 g/m ³	75,000 g/day
BOD ₅	1000 g/m ³	30,000 g/day
pH	Between 6.0 – 10	
Temp	40°C (Deg.Cel)	
Faecal Coliform	200 cfu/100ml	
TN	5 g/m ³	150 g/day
TP	50 g/m ³	1,500 g/day
TSS	1000 g/m ³	30,000 g/d
FOG	200 g/m ³	6000 g/d

5. Flow meter

- a. The occupier shall install a flow meter that records all flow from the site into the Council's wastewater network. The flow meter shall be in a position approved by the Council that provides the degree of accuracy and is readily accessible for reading and maintenance.
- b. The occupier shall submit weekly flow data to the Council by 10 am every Monday for the previous week (by email or SCADA).
- c. The occupier shall submit **biennial** verification/calibration record of the electro-magnetic flow meters to the Council by mid-July for the previous period ending 30th June. The meter accuracy must be $\pm 10\%$ but with no greater a deviation from the previous meter calibration of $\pm 5\%$

6. Composite or Digital Sampler

The occupier shall install a composite or digital sampler to record the discharge characteristics and demonstrate compliance with Condition 4.

7. Control Valve

The occupier shall install a control valve on the outlet that restricts the flow rate to 2.0 L/sec between 4 pm and 4 am.

8. Monitoring

As from the commencement date of this consent, the occupier shall arrange for a program of self-monitoring of the waste discharge, to determine compliance with the nature and levels of the components and characteristics as specified in the consent, as follows:

- a. a 12-hour in-line monitoring of pH, Temperature and Flow.
- b. Once a week on alternating days, a 12-hour time proportional composite or digital sample to measure levels and concentrations of the following components and characteristics:
 - *Chemical Oxygen Demand (COD)*
 - *Potential of Hydrogen (pH)*
 - *Suspended Solids (TSS)*
 - *Fat Oil and Grease (FOG)*
 - *Biochemical Oxygen Demand (BOD₅)*
 - *Total Nitrogen (TN)*
 - *Total Phosphorous (TP)*
- c. The sampling technique, analytical methods used, and sample storage requirements shall ensure all samples will be preserved, handled, transported and delivered to an IANZ-accredited laboratory according to approved

standards. It is expected that the occupier will send these samples for testing at the Council's laboratory at [REDACTED] Paraparaumu. Should the occupier wish to test the samples elsewhere, they shall make arrangements to share the lab results with the Council directly from the lab.

- d. The occupier shall submit records of all sampling analysis to the Council within 24-hours.

9. Measurement

- a. The occupier shall ensure the Council water meter is functional to record all potable water used on site.
- b. The occupier shall maintain a suitable sampling point to allow the Council to perform 24-hour time proportioned sampling, if required.

10. Waste Management

The occupier shall maintain records demonstrating that pre-treatment equipment specified in the consent application is being maintained and or upgraded as required. these records shall be made available to the Council on request.

11. Pre-treatment

The occupier shall maintain the following pre-treatment structures:

- a. Grease trap (for all trade waste from the food prep operation related to the tasting room)
- b. In-line pH monitoring
- c. Continuous temp monitoring
- d. Suitable sampling point and flow meter for the consolidated flow including floor washings

12. On-Site Storage Tank

To facilitate compliance with the conditions of the consent, the occupier shall investigate options for increasing storage capacity on site, including through a retaining tank. The occupier shall report back to the Council on the outcome of these investigations within 12 months of the consent being approved.

13. Cleaner Production

The occupier shall investigate options for cleaner production techniques to continuously reduce the quantity and improve the quality of their trade waste discharges.

14. 12-month Review

The Council will review the conditions of the consent at the end of the first year of this consent being approved. The review will include analysing the discharge volume and characteristics within this consent based on 12-months of data collection and identifying whether additional management/mitigation measures are required.

15. Charges

In accordance with the Kapiti Coast District Council Trade Waste Bylaw 2019, for the purposes of calculating the appropriate charges, the volume and quality of trade waste discharged from this property and admitted to the Council sewer shall, until otherwise advised, be assessed as follows:

- a. Prior to the flow meter and sampler being installed in accordance with Condition 5 and 6, the trade waste volume discharged to the sewer shall be assessed as the volume of water delivered, as measured by the potable water meter in Condition 5 and calculated as 85% of the volume of potable water used on site shall be charged under "Trade Waste".
- b. Once the flow meter and sampler required by Condition 5 and 6 have been adequately installed, the fees and charges will be charged as per the following table or as per the annual review by the Council.

Category	Description	Charges
Volume	Payment based on the volume discharged	\$0.80/m ³
TSS	Payment based on the mass of suspended solids	\$0.70/kg
Organic loading	Payment based on the mass of COD	\$0.40/kg
Total Nitrogen	Payment based on the mass of Nitrogen	\$2.40/kg
Total Phosphorous	Payment based on the mass of Phosphorous	\$7.50/kg

- c. The mass shall be based upon the analysis of the samples taken in accordance with Condition 8.

10. Consent

This consent dated **xx February 2023** shall be in the name of **D B Breweries Limited – Tuatara**, relative to the admission of trade waste to the Council sewer. This consent expires on **xx February 2025**.

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/31/2023 07:59:56 AM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: RE: My contact details below, Regards, Tupu
Attachments: image002.png Burkert pH probe.pdf pH probe calibration.xlsx

Morning Ramesh,

In addition to the verification on the wastewater flow meter, we have replaced and calibrated a new pH probe. Information attached. Calibrations have been added to the monthly laboratory maintenance schedule, and we have also ordered pH-10 buffer to increase the accuracy of the probe slope.

Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 20 January 2023 3:15 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Ramesh.Pillai@kapiticoast.govt.nz; [REDACTED]
[REDACTED]

Subject: RE: My contact details below, Regards, Tupu

Hi Ramesh,

Apologies for the delay as I was awaiting some responses from external suppliers. Please find below the information you requested, along with our findings, pending actions, and any data relating to the waste water at 7 Sheffield St.

- Please find attached the completed "Application for Consent to Discharge Trade Waste" form to cover the period from 1 July 2023.
- All plant maintenance is completed inhouse by the site Maintenance engineer. This includes daily inspection, daily fault monitoring, and breakdown attendance if/when required. A review of the instrument servicing has been completed, with four immediate actions. 1) As per SOP, Calibrate pH probe immediately and on an ongoing monthly basis. 2) Purchase a spare pH probe (part 8203-PG13-GLAA-HL-A-A9-M-000/00-M) in the event that "Burkert pH probe (When the Multicell pH transmitter shows pH Sensor "Out of Range") replace" as per SOP. 3) calibrate, verify and certify the discharge magflow meter is accurate to with +/-5% as per National regulation requirements (Due 26/10/23, current Calibration certificate attached, Ref KROHNE). 4) add discharge magflow meter to a 5 year maintenance and calibration schedule.
- There are no recent waste water sample analysis available or historical discharge volumes. An enquiry has been made to Apex to quote on the install of a USI Hydrocell wastewater sampler. It has also become apparent that the site may require additional storage to increase the buffer. Again, we have approached Apex to quote on supplying a similar vessel to the existing unit.
- The response from Apex is that no historical flow meter data (or other) is available beyond the daily volume totaliser records which covers Day 0 to Day -7. I have included a photo of the totaliser data from 13/01/23 (IMG_1294). This will be remedied should a data logger be integrated into the system, a supply request has been sent. In the interim, we will begin capturing and recording the 7day data each week.
- Emergency or contingency plan for waste management/discharges (include any historical events register). To my knowledge, out side of the emergency spill plan, there is no waste management plan for this site. We will be reviewing this asap, with a view to develop and implement in good time.
- Referencing Trade waste discharge consent TW0471, the forementioned 'separator' relates to a grease trap design. As the Tuatara Tap room does not regularly operate a deep frier, hot plate, or other grease and oil equipment, there has not been a grease trap or separator fitted to the waste water system. It is presumed that this condition was added in the event that the kitchen menu extended to such items.
- Please find attached a copy of the site plan (Updated Haz Tua site plan 20220714) hazard chemical inventory (TUA Chemical Inventory) and response procedure (Tuatara Emergency Procedure – Chemical Spill & TUA Spill Response 20220721) which form the hazardous spill management plan. Action: update the response plan to include an action to isolate the WWTP discharge to prevent contaminants from entering the waste water stream.
- Your Waste management plan. Alongside the Emergency waste management plan, we will develop the waste management plan.
- Please find attached the Water saving plan for Tuatara (Copy of EW planning v02), which indicates the best practice and improvement projects executed or planned for 2022/23. Also attached are several related best practice guides (W05 Hot water tanks overflow recovery, and, W02 Backwash Water Recovery) which have been implemented.

I trust that all the information you requested has been covered, however, should you require clarification or additional information, please feel free to contact me.

Regards, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent: Friday, 13 January 2023 1:52 pm
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Reuben Mackey

< [REDACTED] Grant Stuart < [REDACTED]

Subject: RE: My contact details below, Regards, Tupu

Importance: High

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma

Water & Wastewater Services Manager

Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council

Tel 04 296 4863

Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Friday, 13 January 2023 12:55 pm

To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>

Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

Disclaimer

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Delivery note

DB Tuatara Brewery
7 Sheffield Street
PARAPARAUMU 5032

Burkert Contact:

Inside Sales

Tel.: (0800) 287 537

Fax.: (0800) 33 33 77

Mail: sales.nz@burkert.com

Delivery Note No. 5550054585

Date 23.01.2023

Customer No. 90005599

Our Order No. 5530192089

Your Order 4500202219

Shipping Terms:	Standard
Delivery Terms (INCO 2010):	FCA / auckland
Packages:	00001
Goods Issue:	23.01.2023

Sold to

DB Tuatara Brewery
PO Box 570
PARAPARAUMU 5254

Item	Material	Material Description	Order Quantity	Delivery Quantity	Remaining Quantity
10	00561025	PH/REDOX-electrode	1 PCE	1 PCE	0 PCE
		8203-PG13-EPFF-HL-A-A9-M-000/00-M			
	Net weight / PCE	0.100 KG			

Please contact Burkert before returning any goods for Credit or Warranty. A Restocking fee of 25% on all returned goods is at the discretion of Burkert.

Burkert New Zealand Ltd.
PO Box 73-046
Auckland Airport
Auckland 2150

GST : 46-631-633

Account Enquiries
Tel.: 09 256 7779 / Fax: 09 256 7748
Email: accounts.nz@burkert.com

Sales Tel.: 0800 287 537
Email: sales.nz@burkert.com

Bank Details
HSBC Ltd

Account: Burkert NZ Ltd
Branch Code: 302904
Account Number: 0385272-61

Calibration records of pH electrode in trade waster plant

S:/Quality & lab/Calibration Info/TradeWaste

Date	Comment	By	pH 4	pH 7	pH 10	Slope mV	Notes
25/01/2023	Received						pH 120 Electrode P/N 561025 lot # 2247
26/01/2023	Installed	HD					Replaced old electrode with new electrode above
26/01/2023	Calibrated	HD/LA	pre calibration	3.91	6.79		
26/01/2023	Calibrated	HD/LA	adjusted/calibrated to	4.01	7.00	-57.89	details in calibration log on burkert tansmitter, temp 32.7C.

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/20/2023 03:15:04 PM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
image001.png IMG_1294.jpg TUA Spill Response 20220721 (1).pdf UPDATED HAZ TUA Site Plan 20220714.docx Tuatara
Attachments: Emergency Procedure - Chemical Spill.docx TUA Chemical Inventory 20220714.xlsx TUA Spill Response 20220721.pdf Copy of EW
planning v02_Data_Input_Only.xlsx W05 Hot water tanks overflow recovery.pdf W02 Backwash Water Recovery.pdf KROHNE.pdf
Application for Consent to Discharge Trade Waste - signed.pdf

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Regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, 13 January 2023 12:55 pm
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Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

Disclaimer

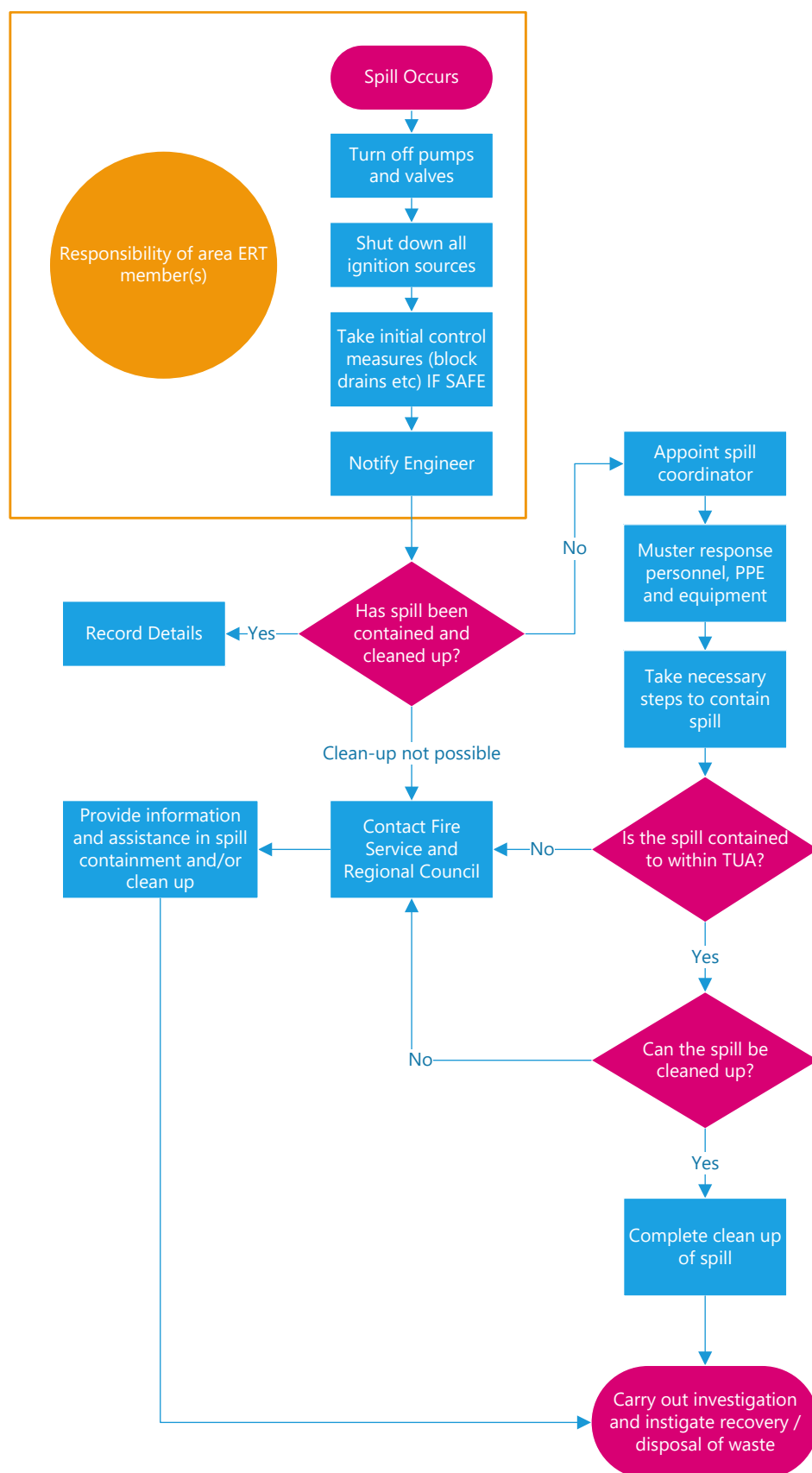
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Good Practice Title

Hot water tanks overflow recovery

Application Area



General



Brewing



Packaging



Utilities



Main Opportunity (Why?)

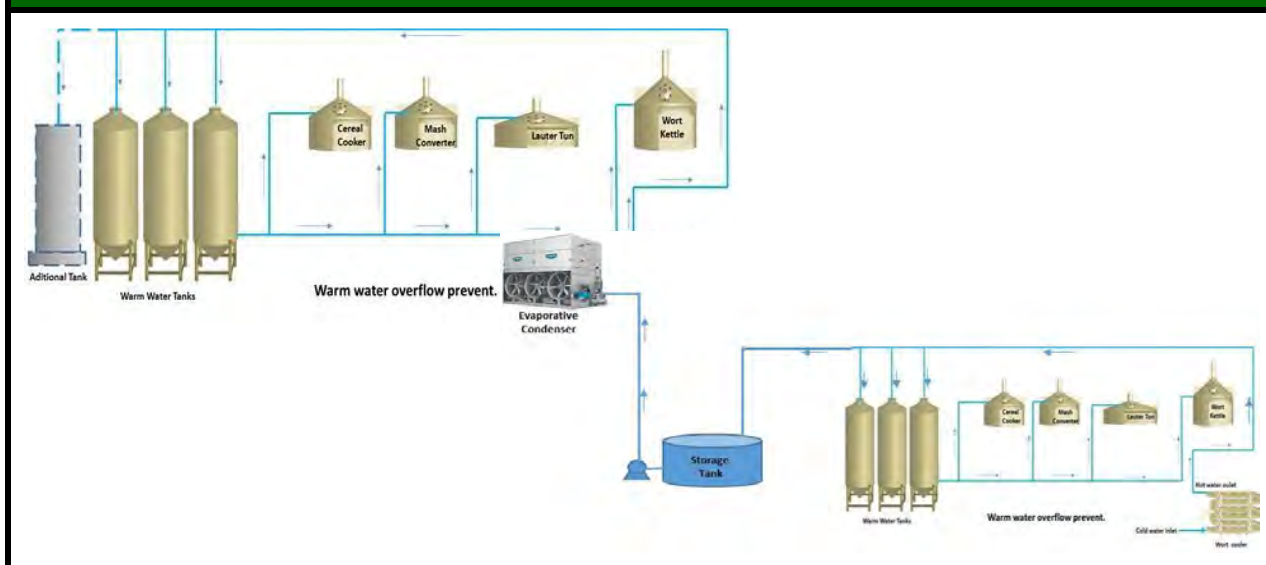
The hot water resulting from the wort cooling process is used in brewhouse to produce wort. Sometimes the amount of hot water produced is more than the available storage space into the hot water tanks causing water spills to the drainage.

Good Practice Description (What?)

When the volume of hot water production vs wort production is unbalanced, the water spilled to the drainage can be minimized in the following ways:

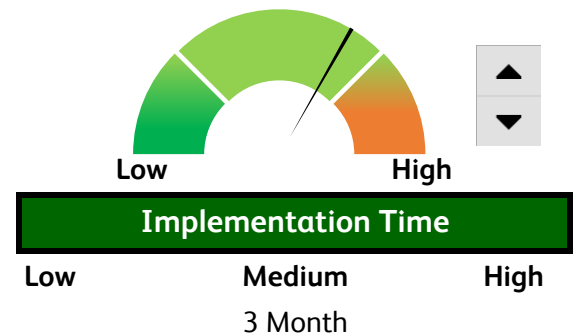
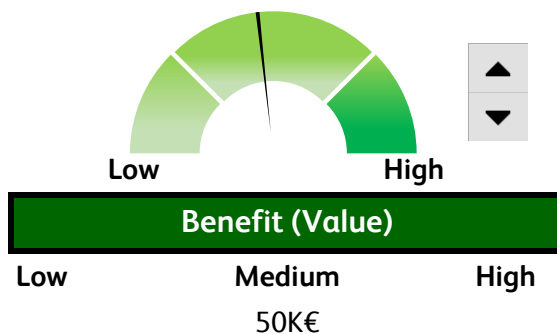
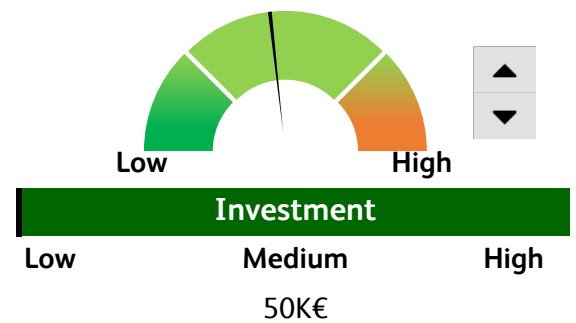
- Installing an additional tank for hot water storage.
- Sending the excess hot water to an open storage tank (or cistern) for later use in the evaporative condensers (after lost heat).

Picture, diagrams, Visual Aids



Benefit (KPI)	Water
0.003 - 0.02 HI/Hi	

Benefit (KPI)	



Required Resources	Standardization	Advise
Purchase a hot water tank and installation. Purchase a water tank or cistern and installation.	<input type="checkbox"/> Pokayoke <input type="checkbox"/> SOP / OPL <input type="checkbox"/> CILT <input checked="" type="checkbox"/> MOC	The right selection of the wort cooler is the key in order to avoid the excess of hot water in brewhouse.

Horizontal Expansion Status	OpCo <input checked="" type="checkbox"/>	Region <input type="checkbox"/>	Global <input type="checkbox"/>
-----------------------------	--	---------------------------------	---------------------------------

Good Practice - Contact Information	
Region	NSA
Country	Mexico
OpCo	Mexico
Brewery	Orizaba
Name of Contact Person	Dionicio Contreras Rivera
Function of Contact Person	Utilities Chief
Phone Number	(+521) 2721704897
e-mail address	dionicio.contreras@cuamoc.com

Calibration Certificate - Kalibrierzertifikat - Certificat d'étalonnage

DIN 55 350-18-4.2.2

Customer / Kunde / Client : KROHNE New Zealand Ltd
 Customer Order / Bestellnummer / Commande Client : NZL-PO-00533
 Product / Produkt / Produit :
 Type / Typ / Type : OPTIFLUX 2000 DN 50 mm/ 2 inch
 Sales Order / VK-Auftrag / Commande de vente : 700012932 290 2
 Serial Number / Seriennummer / Numéro de série : S18312200
 Tag Number / Tagnummer / Repère :

Calibration Method / Kalibriermethode / Méthode d'étalonnage

The flow sensor has been calibrated against a piston-prover. The calibration certificate of this prover registers the traceability to national standards, which establishes the physical units of measurements according to the International System of Units (SI).

Die Prüfung des Durchflussmessgeräts erfolgt im Vergleich zu einem Piston-Prover. Die Kalibrierung des Provers ist rückführbar auf Nationale Standards. Die physikalischen Einheiten sind nach dem SI-System definiert.

Le capteur de mesure a été étalonné avec un piston étalon. Le certificat d'étalonnage de cet étalon prouve la traçabilité aux étalons nationaux qui utilisent des unités de mesures physiques selon le Système International (SI).

Test Equipment Data / Kalibrierstanddaten / Données du banc d'étalonnage

Serial Number / Seriennummer / Numéro de série : PST CA2B0001
 Calibration fluid / Kalibrierflüssigkeit / Fluide d'étalonnage : Water / Wasser / Eau 20.17 °C
 Uncertainty / Unsicherheit / Incertitude : 0.05 %

Calibration Results / Kalibrier Resultats / Résultats d'étalonnage

Flow Rate Durchflussmenge Débit (%)	Set Flow rate Gewählte Durchfluss Débit réglé (m3/h)	Deviation Abweichung Ecart (%)
100.53	14.2121	-0.05
22.15	3.1314	+0.12

Calibration Data / Kalibrierdaten / Données d'étalonnage

GK : 0.0000 GK_h : L1 :
 GK_I : 7.1715 GK₀₇₀ : 0.0000 L2 :
 L3 :

Date / Datum / Date : 2018-10-26

Signature / Unterschrift / Signature :



Good Practice Title**Backwash water recovery****Application Area**General ☐Brewing ☐Packaging ☐Utilities ☒**Main Opportunity
(Why?)**

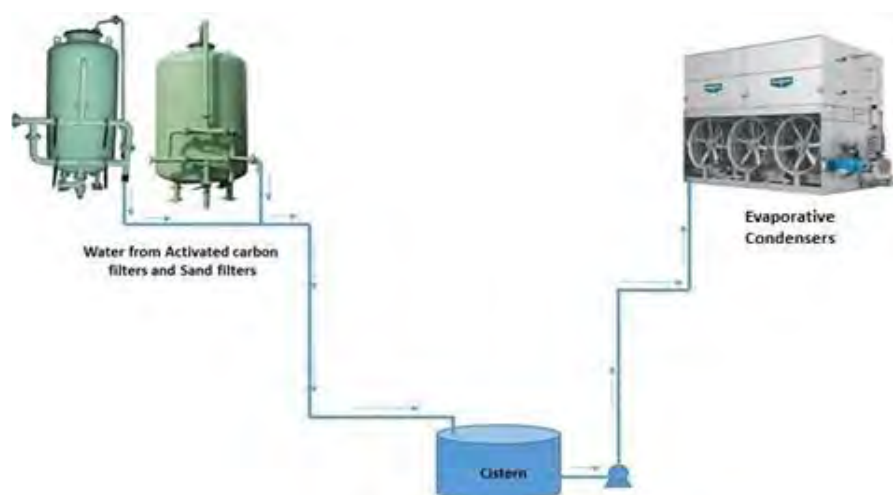
Backwashing process consists of passing water in counterflow direction through filter beds during a specific time. This is used to remove the retained particles in sand filters, activated carbon filters and softeners. The water used for this purposes is usually sent to drain.

**Good Practice
Description
(What?)**

Instead of sending it to drain, the water used for backwashing filters and softeners can be recovered and reused. Possible reuses are:

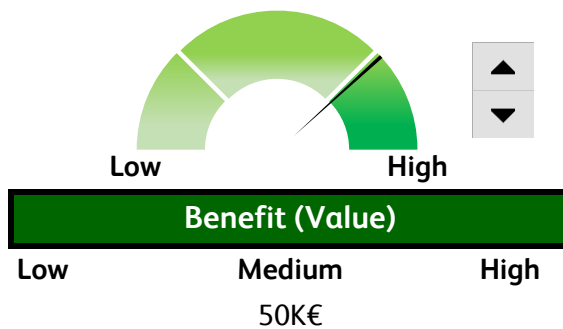
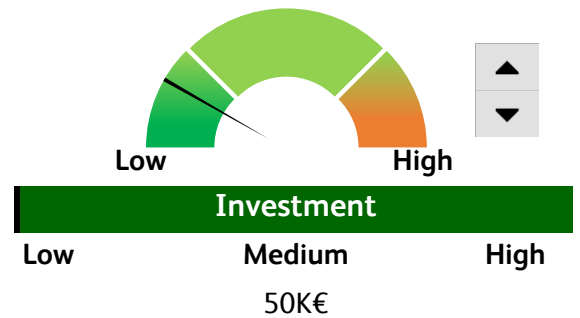
*Installation of cartridge filters for small values of TSS (Total Suspended Solids) to return back to the inlet of sand and carbon filters.

*Evaporative condensers, cooling towers, cleaning floor, irrigation

Picture, diagrams, Visual Aids

Benefit (KPI)	Water
0.012 - 0.19 HI/HI	

Benefit (KPI)	



Required Resources	Standardization	Advice
Piping network installation. Storage tank. Pumping System.	<input type="checkbox"/> Pokayoke <input type="checkbox"/> SOP / OPL <input type="checkbox"/> CILT <input checked="" type="checkbox"/> MOC	Do not recover the water at the beginning of the backwash process. The recovered water could require treatment before using as make up for evaporative condensers. For softeners, be sure the recovered water is only from the backwash.

Horizontal Expansion Status	OpCo <input checked="" type="checkbox"/>	Region <input type="checkbox"/>	Global <input type="checkbox"/>
-----------------------------	--	---------------------------------	---------------------------------

Good Practice - Contact Information	
Region	NSA
Country	Mexico
OpCo	Mexico
Brewery	Tecate
Name of Contact Person	Arturo Rosales
Function of Contact Person	Utilities Chief
Phone Number	(+521) 6651108125
e-mail address	Arturo.rosales@cuamoc.com

APPLICATION FOR CONSENT TO/CHARGE RATES

Form to be completed by the applicant and returned to the Council

Application Reference number

PROPERTY INFORMATION

Property Address: [Address]
Map Reference: [Reference]
Property Size: [Size]
Property Use: [Use]

APPLICANT INFORMATION

APPLICANT DETAILS

Full Name	[Name]		
Street Address	[Address]		
Post Office Box	[Box Number]		
City/Town/Village	[City]	Post Code	[Post Code]
Phone Number	[Phone Number]		
Mobile Number	[Mobile Number]		
Business Email Address	[Email Address]		

PROPERTY DETAILS

Section Number	[Section Number]		
Block	[Block Number]		
Property Address	[Address]		
Owner	[Owner Name]	Co-owner	[Co-owner Name]

DETAILS OF REQUEST

Consent Number	[Consent Number]		
Consent Address	[Address]		
Consent Description	[Description]		

ADDITIONAL INFORMATION

Reference Number	[Reference Number]		
Consent Number	[Consent Number]		
Consent Address	[Address]		

Description of premises and Trade Waste

DESCRIPTION OF MAIN TRADE ACTIVITY (SELECT AS MANY AS APPLICABLE)

Brewery/distillery/ Bar	X	Automotive	
Food premise / Catering	X	Dry Cleaners / Laundry	
Food processor		Manufacturing / Processing	
Function Centre / Public venue	X	Mechanical	
Meat (Butchery) or Fish		Industrial workshop	
Supermarket with Butchery/Bakery		Service Station / Car wash	
Eating House <25 seats		Medical	
Eating House 26-50 seats		Hair salon / Beauty Clinic	
Eating House 51-100 seats		School / Church	
Eating House >100 seats		Tankered waste	
Swimming Pool/ Thermal Pool		Other:	
Brief description of the Activity:			

THIS APPLICATION RELATES TO (SELECT ONE)

A proposed new discharge		An existing discharge for which no consent exists	
Renewal of a consent	X	Variation to an existing consent	
Nature of variation: To meet the obligation with Tradewaste Bylaw and future regulatory requirements.			

IS THE PREMISES ALREADY CONNECTED TO THE SEWER?

Yes	X	No	
------------	---	----	--

DOES IT HAVE ANY COMPOSITE SAMPLER?

Yes		No	X
------------	--	----	---

PROPERTY SOURCE WATER

Town supply	X	Other	
-------------	---	-------	--

CONNECTIONS REQUIRED

Number	Nil, existing
Size	

DIAGRAM FOR CONNECTION LOCATION

Please attach a diagram or plan showing distances from boundaries, kerbs, and buildings.

VOLUME OF WASTE DISCHARGED

Average daily volume	30m ³
Maximum total daily volume	TBC m ³
Maximum instantaneous flow	2.77L/sec
Seasonal variation	30m ³ +/- 10m ³
If applicable, batch discharge volume	N/Am ³
If applicable, batch discharge frequency	

CHARACTERISTICS OF TRADE WASTE DISCHARGE

Discharge temperature	Average	TBC°C	Maximum	45.0°C
Provide details of substances likely to be contained in the Trade Waste discharge and their respective concentrations (detail below or attach to this application test results):				
Wort, Beer waste, hop material, trub, non viable yeast, CIP Chem (Caustic/Acid), Rinse water				
List substances that are stored, used or generated on the premises.				
Please find attached (TUA Chem inventory)				
Describe mitigation measures employed to prevent accidental discharges of these substances to the public sewer or stormwater system				
Site wet area bunded, with all liquid waste diverted to WWTP.				
List any substances that are collected or taken off-site.				
Spent grain.				
Does the discharge contain stormwater? If yes, what uncovered area is connected to the trade waste drain?				
Is domestic sewage mixed with trade wastes? If yes, how many toilets are connected?				
Three toilets				

PRE-TREATMENT SYSTEMS

Provide details of any pre-treatment devices, including make, model and details of calculations used for sizing of pre-treatment devices. Attach drawings, diagrams and photos where applicable
The schematic drawing from Apex Environmental is already handed over to the staff..

WASTE REMOVAL

Provide details of pre-treatment device servicing, including details of service provider and servicing frequency	
Is waste oil, fat or other waste collected and removed off-site?	Yes / No
If yes, service provider contact details:	
Spent grain waste.	
Grainhub Limited	
104 Bollard Road, Tuakau 2121	

Application Received and checked by:

Officer:

Application Number:

Date:

Phone:

Application Approved by:

Officer:

Consent Number:

Application Fee (incl GST):

File No:

Receipt Number:

Application Received and checked by:

Officer:

Application Number:

Date:

Phone:

Application Approved by:

Officer:

Consent Number:

Application Fee (incl GST):

File No:

Receipt Number:

Application Received and checked by:

Officer:

Application Number:

Date:

Phone:

Application Approved by:

Officer:

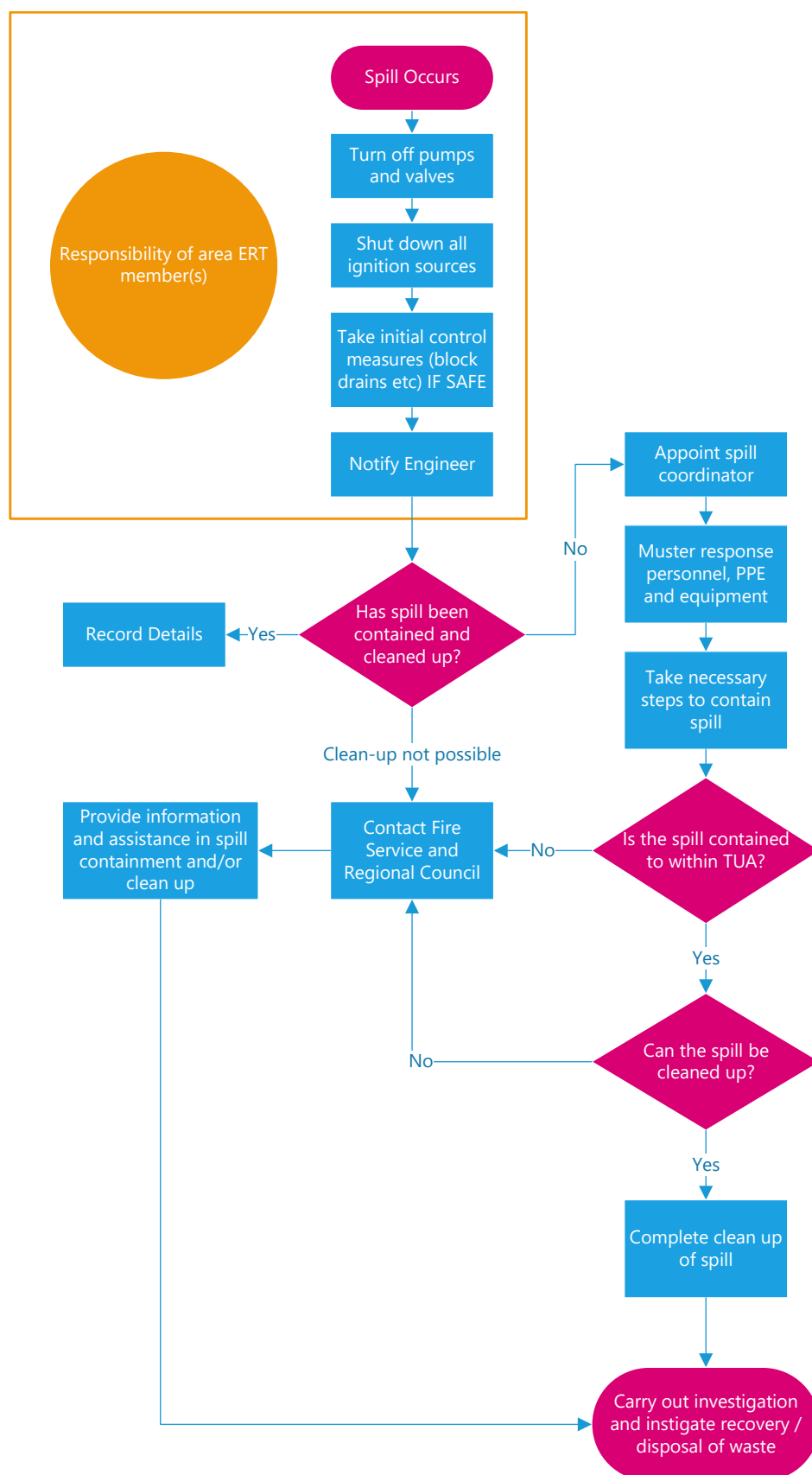
Consent Number:

Application Fee (incl GST):

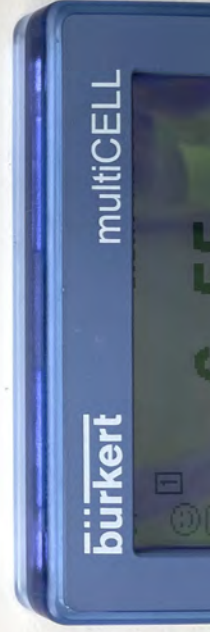
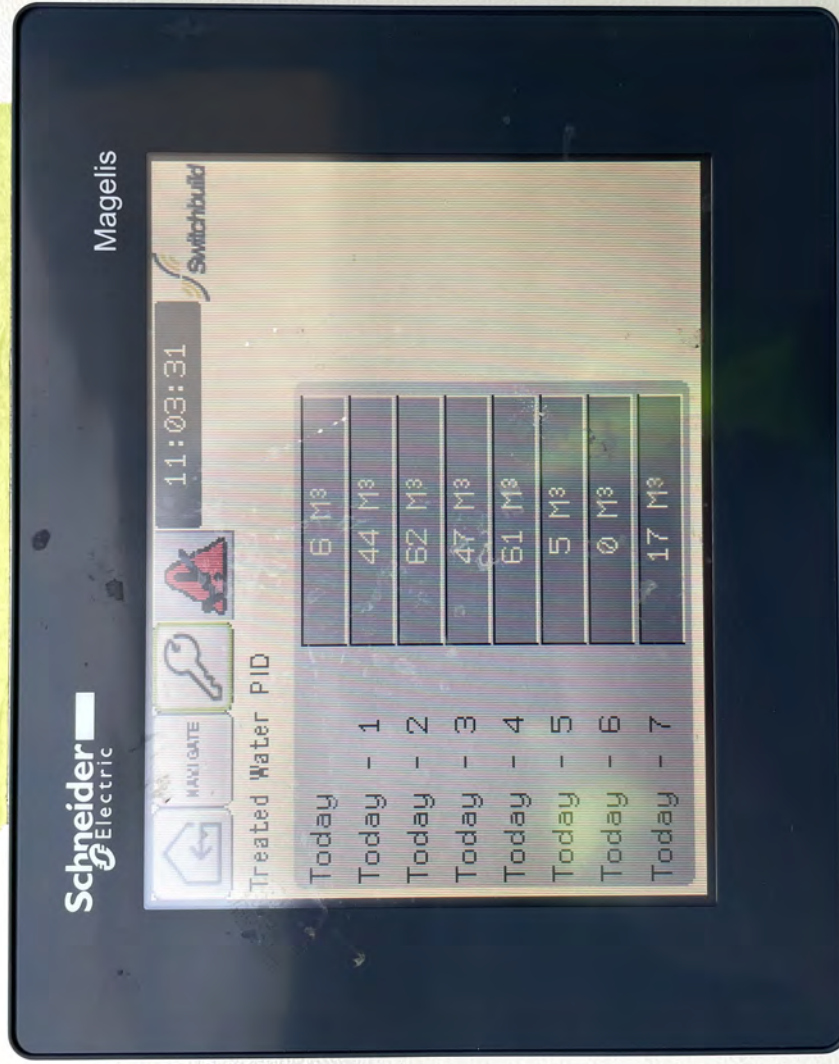
File No:

Receipt Number:

Application Received and checked by:			
Officer:		Date:	
Application Number:		Phone:	
Application Approved by:			
Officer:		Date:	
Consent Number:		File No:	
Application Fee (incl GST):		Receipt Number:	



Unknown fault?
Check E-stop!



HAZARDOUS SPILLS

You must know and understand what to do if a spill occurs
Your first priority is the immediate safety of all people present

Emergency Services: 111

Site Warden:

Tupu Gregory [REDACTED]

Fire Wardens:

Packaging area packaging Toilets - [REDACTED]

Filler/ kegging areas/ capper - [REDACTED]

Malt room/Engineering/Chiller - [REDACTED]

Brewery/Brewery chiller/Toilet/ Tasting room Toilet - [REDACTED]

CHECKLIST

1. Raise the alarm
2. Evacuate if necessary and cordon off the immediate area
3. Identify the nature of the spilled substance
4. Put on safety equipment (e.g. overalls, boots, gloves, eye protection, etc.)
5. Close of the source of the spill, if it is safe to do so
6. Remove any sources of ignition if flammable substance present
7. Identify the danger posed by the spill – only respond if it is safe to do so
8. Notify Brewery Manager
9. Refer to the safety data sheet or call on an approved handler or other specialists for advice
10. If necessary, call emergency services and advise the local council
11. Use your spill kit/sandbags to contain the spill if it is safe to do so. Avoid contaminating waste water or stormwater.
12. Using PPE, dispose of waste safely as set out in the safety MSDS Sheets

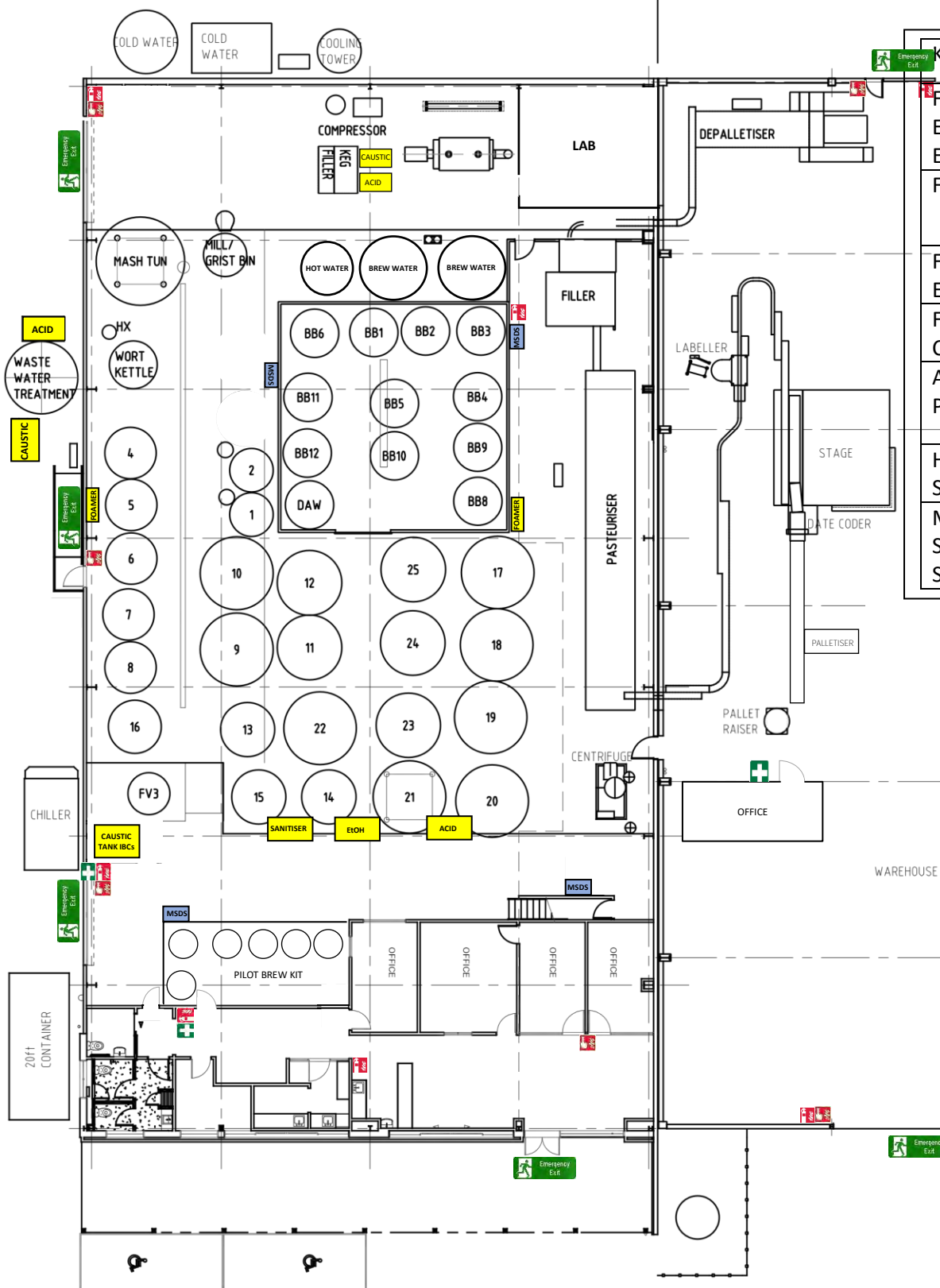
MSDS Sheets are located in the brewery, in the production office and at each chemical bund

AFTER THE EVENT


File VAULT
incident report

Replenish spill
kit

Complete investigation
and RCA. Implement
actions to improve
proc. [REDACTED]



Key	
	Fire / Emergency Exit
	First Aid Kit
	Fire Extinguisher
	Fire Alarm Call Point
	Assembly Point
	Hazardous Substance
	Material Safety Data Sheets

	Tuatara Brewing Ltd - Chemical Inventory					Created By: Tyler Powell
	Date Created: 22/10/2019					Revision Number: 20220714
CHEMICAL NAME	COMMON NAME	SUPPLIER	TYPICAL QUANTITY	HSNO CLASS	MAXIMUM KG/L ON HAND	SDS Revision Date
TOPAX 686		ECOLAB	20L	8.2B, 8.3A, 9.1A	40L	2020-12-29
OXONIA ACTIVE	PEROXYACETIC ACID MIX	ECOLAB	100KG	5.1.1C, 8.1A, 6.1D, 6.1E, 8.2B, 8.3A, 6.1E, 9.1D, 9.3B	200KG	2019-11-19
HORLITH V	NITRIC ACID	ECOLAB	200L	8.1A, 8.2B, 8.3A, 9.1D	400L	2020-12-09
MIP CIP	SODIUM HYDROXIDE	ECOLAB	200L	8.1A, 8.2B, 8.3A, 9.1D	400L	2022-03-17
SANICOL	SURFACE SANITISER	ECOLAB	5L	3.1B, 6.4A	10L	2020-04-09
LIQUEFIED PETROLEUM GAS	LPG	ONGAS	18KG	2.1.1A	99KG	2019-06-01

Date	Comment	Instigator	Authoriser	Version Number
16/06/2022		n/a	Tyler Powell	20220714

Instructions

- Insert new row so that most recent amendment is at the top.
- Provide a summary of changes.
- Update version number (yyyy/mm/dd)
- In the Document Control footer, update the version number so that the correct version number is
- Communicate changes as appropriate

Original document authorised by Tyler Powell

Authorisation Date: 22/10/2019

Revision Code: 20220616

Filename: TUA Chemical Inventory

Location: Tuatara TUA
 Water (hL/hL)
 Start 8.81 hL/hL

	Item	Start of Year	Activity	Type	GP #	Project Lead
		1/01/2022	2022 Start	Calculation		
			2021 Balance	Calculation		
1	TUA.W.2022.1		W5	Improvement	W05	HD
2	TUA.W.2022.2		W2	Good Practice	W02	HD
3	TUA.W.2022.3		W12	Improvement	W12	HD
4	TUA.W.2022.4		HLT Automation	Improvement	TUA HLT	TG
5	TUA.W.2022.5		CIP Automatoin	Improvement	TUA CIP	TG
6	TUA.W.2022.6		W25	Improvement	W25	PR
7						
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		1/01/2023	2023 Start	Calculation		
			2022 Balance	Calculation		
1	TUA.W.2023.1		W10	Improvement	W10	HD
2	TUA.W.2023.2		W26	Good Practice	W26	TG
3	TUA.W.2023.3		W32	Good Practice	W32	TG
4						
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		1/01/2024	2024 Start	Calculation		
			2023 Balance	Calculation		
1	TUA.W.2024.1		W7	Good Practice	W05	RM
2	TUA.W.2024.2		W8	Improvement	W06	RM
3	TUA.W.2024.3		W9	Improvement	W08	RM
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		1/01/2025	2025 Start	Calculation		
			2024 Balance	Calculation		
1	TUA.W.2025.1		W45	Good Practice	W45	RM
2	TUA.W.2025.2		W46	Improvement	W46	RM
3	TUA.W.2025.3		W47	Improvement	W47	RM
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20						
		1/01/2026	2026 Start	Calculation		
			2025 Balance	Calculation		

[illegible]

	1/01/2026	\$449,781	\$100,160		7.89		
-0.03	1/01/2026				0.00		

[illegible]

			1/01/2026	\$69,501	\$45,760		8.59
		0.00	1/01/2026				0.00

Tuatara

AP 2022 E&W Dashboard

AP 2022 E&W Overall Performance

2022	Planned	Complete	Estimated Improvement	Realised
Water (hL/hL)	6	<div><div></div></div> 83%	-1.25	<div><div></div></div> 46%
Thermal (MJ/hL)	0	#DIV/0!	#REF!	#REF!
Elect (kWh/hL)	0	#DIV/0!	#REF!	#REF!
Total	6	<div><div></div></div> 83%		

AP 2022 E&W Project Performance

2022	Complete	Improvement	vs Planned
Water (hL/hL)	5	-0.57	<div><div></div></div> 46%
Thermal (MJ/hL)	0	#REF!	#REF!
Elect (kWh/hL)	0	#REF!	#REF!
Total	5		

Estimated Capex	Spent	Estimated Cost Savings	Realised	Estimated Carbon (tCO2e/yr)	Abated
\$ 124,001	56%	\$ 100,160	46%		
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Capex	vs Planned	Cost Savings	Realised	Carbon (tCO2e/yr)	Abated
\$ 69,501	56%	\$ 45,760	46%		
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!
#REF!	#REF!	#REF!	#REF!	#REF!	#REF!

Cost Savings					Activity Types	
Waitemata		Yearly				
	Water		per	0.1 hL/hL		
	Electricity		per	0.1 kWh/hL		
	Thermal		per	1 MJ/hL		
Timaru		Yearly			Calculation	
	Water		per	0.1 hL/hL	Improvement	
	Electricity		per	0.1 kWh/hL	Good Practice	
	Thermal		per	1 MJ/hL	RBC	
Redwood		Yearly				
	Water		per	0.1 hL/hL		
	Electricity		per	0.1 kWh/hL		
	Thermal		per	1 MJ/hL		
Tuatara		Yearly				
	Water	\$8,000	per	0.1 hL/hL		
	Electricity	\$3,000	per	0.1 kWh/hL		
	Thermal	\$35,000	per	1 MJ/hL		

Locations	Abbrev
DBW Waitemata	DBW
DBD Timaru	DBD
Redwood Cidery Nelson	RCC
Tuatara	TUA

Carbon Emissions	
Waitemata	Electricity
	Thermal
Timaru	Electricity
	Thermal
Redwood	Electricity
	Thermal
Tuatara	Electricity
	Thermal

Emission Factor	
	kgCO2e/kWh
	kgCO2e/MJ

Annual Production	
Waitemata	hL
Timaru	hL
Redwood	hL
Tuatara	15,000 hL

	kgCO2e/kWh
	kgCO2e/MJ

	kgCO2e/kWh
	kgCO2e/MJ

0.0977	kgCO2e/kWh
0.0602	kgCO2e/MJ

From: Ramesh Sharma </O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D85D1C13DFC74B25@>
Sent time: 01/13/2023 01:52:21 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>
Subject: RE: My contact details below, Regards, Tupu
Attachments: Application for Consent to Discharge Trade Waste - form.doc image001.png

Hi Tupu,

Thanks for meeting us today at your Brewery. I appreciate your time meeting and discussing the regulatory requirements after the incident reported on 11 Jan 2023.

As discussed during our meeting, it was identified that a review of the trade waste discharge licence is necessary to meet the regulatory requirements by Council as per our Trade waste Bylaw and RMA.

We will require the following information from you to process the Trade waste consent.

1. A completed application form (Copy attached.)
2. Onsite treatment plant before discharging to the public sewer system - I acknowledge the receipt of the schematic of your treatment plant, and you authorised KCDC staff to contact Apex Environmental for any additional information.
3. Provide pre-treatment device servicing details, including service provider and servicing frequency. (Instruments calibration records)
4. Any historical volume and quality of your discharges from the facility. (A daily/weekly composite sampling record)
5. Do you have any composite sample test records of the waste discharges for the last ten (10) days? – (During our discussion, you mentioned that you would enquire about downloading the control panel system data)
6. Emergency or contingency plan for waste management/discharges (include any historical events register)
7. Provide cleaning schedule details of the separator/ decanter/ centrifuge,
8. List any hazardous chemicals and their spill management plan.
9. Your Waste management plan copy, if any
10. Your Water conservation plan- if any.

If you require any further information or assistance with the application form or related information, please feel free to contact us.

Regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, 13 January 2023 12:55 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Subject: My contact details below, Regards, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

Disclaimer

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APPLICATION FOR CONSENT TO DISCHARGE TRADE WASTE

Pursuant to the Kapiti Coast District Council Trade Waste Bylaw 2019

Application Reference number	
------------------------------	--

SEND COMPLETED APPLICATION FORMS TO:

Water and Wastewater Services Manager
Kapiti Coast District Council
Private Bag 60 601
Paraparaumu-5254

General Information

CONTACT DETAILS OF TRADE PREMISES

Trading Name	Tuatara Brewing Company Ltd.		
Street Address	7 Sheffield Street		
Postal Address			
Business Phone		Mobile	
Business Email	Tupu.Gregory@tuatarabrewing.co.nz		
After hours contact name			

CONTACT DETAILS FOR CHARGING

Contact Name			
Position			
Postal Address			
Phone		Mobile	

OWNER OF PREMISES

(If different from above)

Contact Name	
Postal Address	
Phone	

PROPERTY INFORMATION:

Valuation number	
Lot number	
DP number	

Description of premises and Trade Waste

DESCRIPTION OF MAIN TRADE ACTIVITY (*SELECT AS MANY AS APPLICABLE*)

Brewery/distillery/ Bar		Automotive	
Food premise / Catering		Dry Cleaners / Laundry	
Food processor		Manufacturing / Processing	
Function Centre / Public venue		Mechanical	
Meat (Butchery) or Fish		Industrial workshop	
Supermarket with Butchery/Bakery		Service Station / Car wash	
Eating House <25 seats		Medical	
Eating House 26-50 seats		Hair salon / Beauty Clinic	
Eating House 51-100 seats		School / Church	
Eating House >100 seats		Tankered waste	
Swimming Pool/ Thermal Pool		Other:	
Brief description of the Activity:			

THIS APPLICATION RELATES TO (*SELECT ONE*)

A proposed new discharge		An existing discharge for which no consent exists	
Renewal of a consent		Variation to an existing consent	
Nature of variation: To meet the obligation with Tradewaste Bylaw and future regulatory requirements.			

IS THE PREMISES ALREADY CONNECTED TO THE SEWER?

Yes		No	
------------	--	-----------	--

DOES IT HAVE ANY COMPOSITE SAMPLER?

Yes		No	
------------	--	-----------	--

PROPERTY SOURCE WATER

Town supply		Other	
-------------	--	-------	--

CONNECTIONS REQUIRED

Number	
Size	

DIAGRAM FOR CONNECTION LOCATION

Please attach a diagram or plan showing distances from boundaries, kerbs, and buildings.

VOLUME OF WASTE DISCHARGED

Average daily volume		m ³
Maximum total daily volume		m ³
Maximum instantaneous flow		L/sec
Seasonal variation		m ³



If applicable, batch discharge volume	m ³
If applicable, batch discharge frequency	

CHARACTERISTICS OF TRADE WASTE DISCHARGE

Discharge temperature	Average	°C	Maximum	°C
Provide details of substances likely to be contained in the Trade Waste discharge and their respective concentrations (detail below or attach to this application test results):				
List substances that are stored, used or generated on the premises.				
Describe mitigation measures employed to prevent accidental discharges of these substances to the public sewer or stormwater system				
List any substances that are collected or taken off-site.				
Does the discharge contain stormwater? If yes, what uncovered area is connected to the trade waste drain?				
Is domestic sewage mixed with trade wastes? If yes, how many toilets are connected?				

PRE-TREATMENT SYSTEMS

Provide details of any pre-treatment devices, including make, model and details of calculations used for sizing of pre-treatment devices. Attach drawings, diagrams and photos where applicable
The schematic drawing from Apex Environmental is already handed over to the staff..

WASTE REMOVAL

Provide details of pre-treatment device servicing, including details of service provider and servicing frequency	
Is waste oil, fat or other waste collected and removed off-site?	Yes / No
If yes, service provider contact details:	

Collection frequency:

WASTE MINIMISATION

Does the property have a Trade Waste Discharge Management Plan? If yes please attach copy.	Yes / No
If no, please provide details of measures taken to minimise the strength and quantity of Trade Waste discharged to the wastewater system and future strategies for cleaner production	

Declaration

I, _____

Confirm that:

1. To the best of my knowledge, the information in this application is correct and
2. I am duly authorised by the above-named trade premise to make this application

Signed: _____

Date: _____

Full Name: Tupu Gregory

Position: **Brewery Manager**

A standard application fee of \$250 excl. GST will be charged before processing consent application and must be paid over the TDC counter on submission of the application.

OFFICE USE ONLY:

Application Received and checked by:			
Officer:		Date:	
Application Number:		Phone	
Application Approved by:			
Officer:		Date:	
Consent Number:		File No:	
Application Fee (incl GST):		Receipt Number:	

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent time: 01/13/2023 08:44:11 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Subject: Re: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges
Attachments: image001.png

Hi Tupu,
The recent incident means when we identified the discharges on 11 Jan from your facility.

We can discuss this when we meet.

Thank you,
Ramesh

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, January 13, 2023 8:41:25 AM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Kim Mazur <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Thanks Ramesh.
Would you expand on the "recent incident" please.
Thanks, Tupu

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Sent: Friday, 13 January 2023 8:17 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]> Kim Mazur <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Good morning, Tupu,

We have a new team, and Ben is trying to discover historical discussions and consent.
I have received the simple lab report, which indicates that there is a very high COD of the discharges and low pH also. Your control pH showed incorrect pH, which will require calibration and verification, potentially a replacement.

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT															
Client: Paraparaumu Waste Water Treatment Plant															
Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP															
Report No: JAN 230153															
Special Note: Investigation DO drop in PWWTP															
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			Standard Methods 23rd Edition 2540 D	Standard Methods 23rd Edition 520 B	Each Method 8000 - EPA approved	Each Method 8000 - EPA approved	Each Method 10205 - EPA approved	Each Method 10206 - EPA approved	Each Method 10206 - EPA approved	Standard Methods 23rd Edition 4500 P E / Each Method 1020 - EPA approved	Each Method 10294 - EPA approved	Themsolites Method ACD007	Standard Methods 23rd Edition 2590	Standard Methods 23rd Edition 2320B	Standard Methods 23rd Edition 4500 H B

Any queries relating to this report should be addressed to the Laboratory Manager at the address below

After the recent incident and the regulatory tightness, we will discuss the current arrangements for discharging the trade waste of high concentrations listed above.

It makes sense to issue you revised consent conditions.

Happy to discuss this when we meet today.

regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kapiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 12 January 2023 5:09 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Evening Ramesh,

Prior to tomorrows meeting, would you please send through a copy of the latest consent conditions for Tuatara Brewery.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Date: 12 January 2023 at 3:55:29 PM NZDT
To: Hayden Dudek <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>
Subject: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Agenda:

1. To discuss the incident of this week. Impact on council RMA obligations and lwi reporting requirements.
2. Wastewater sample quality
3. Understanding of the gaps in discharges and their improvement plan
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5. AOB

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Passcode: TqHrd3

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant

Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP

Report No: JAN 230153

Special Note: Investigation DO drop in PWWTP

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
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Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/13/2023 08:43:40 AM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Kim Mazur <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges
Attachments: image001.png

Hi Ramesh,
Sorry, I have opened the report. I presume you are referring to the results from the 28/12/22? Thanks, Tupu

From: Tupu Gregory
Sent: Friday, 13 January 2023 8:41 am
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Kim Mazur <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

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Sent: Friday, 13 January 2023 8:17 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>; Kim Mazur <[REDACTED]>
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I have received the simple lab report, which indicates that there is a very high COD of the discharges and low pH also. Your control pH showed incorrect pH, which will require calibration and verification, potentially a replacement.


Kāpiti Coast District Council Laboratory Report

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Report No: JAN 230153

Special Note: Investigation DO drop in PWWTP



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It makes sense to issue you revised consent conditions.

Happy to discuss this when we meet today.

regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

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Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Date: 12 January 2023 at 3:55:29 PM NZDT
To: Hayden Dudek <[REDACTED]>; Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>
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2cb969bef9c5%2522%257d&data=05%7C01%7Chayden.dudek%40tuatarabrewing.co.nz%7C0280970c02e64424456408daf44871eb%7C66e853dece344dd9d66ee6bdf4159d4%7C0%7C0%7C638090889287554391%7CUnknown%7CTWFPbGZsb3d8eylWjoiMC4wLjAwMDAiLCJQljoiv2luMzliLCJBTiI6lk1haWwLiCjXVCi6Mn0%3D%7C3000%7C%7C%7C&sdata=l45ooTLyrh5WqEtXip5TXCDtB2vuZvVktUfUfUqwm4%3D&reserved=0>
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[cid:image001.jpg@01D9269E.394A28F0]
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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant

Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP

Report No: JAN 230153

Special Note: Investigation DO drop in PWWTP

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
Wastewater GRAB collected 10/1/2023 from Tuatara Waste Tank	230153	11/1/2022			79000										5.7
Wastewater GRAB collected 10/1/2023 from Te Roto Pump Station	230154	11/1/2022			15000										5.7
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10206 - EPA approved	Hach Method 10296 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	Thermolisher Method ACD007	Standard Methods 23rd Edition 2570.	Standard Methods 23rd Edition 2300B.	Standard Methods 23rd Edition 4500-HFB.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

From: Ramesh Sharma <O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=D85D1C13DFC74B25@>
Sent time: 01/13/2023 08:16:39 AM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Reuben Mackey < >; Grant Stuart < >; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson < >; Kim Mazur < >
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges
Attachments: Paraparamu Extra Monitoring post Misc Events 2020 onwards.xlsx image001.png

Good morning, Tupu,
We have a new team, and Ben is trying to discover historical discussions and consent.
I have received the simple lab report, which indicates that there is a very high COD of the discharges and low pH also. Your control pH showed incorrect pH, which will require calibration and verification, potentially a replacement.

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Client: Paraparamu Waste Water Treatment Plant
Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP
Report No: JAN 230153
Special Note: Investigation DO drop in PWWTP



Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
Wastewater GRAB collected 10/1/2023 from Tuatara Waste Tank	230153	11/1/2022			79000										5.7
Wastewater GRAB collected 10/1/2023 from Te Roto Pump Station	230154	11/1/2022			15000										5.7
			Standard Methods 23rd Edition 2540 D	Standard Methods 23rd Edition 5200 B	Hach Method 8000 - EPA approved	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10200 - EPA approved	Hach Method 10296 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10200 - EPA approved	Hach Method 10294 - EPA approved	ThermoFisher Method ACDD07	Standard Methods 23rd Edition 2570	Standard Methods 23rd Edition 2320B	Standard Methods 23rd Edition 6500 HFB

Any queries relating to this report should be addressed to the Laboratory Manager at the address below

After the recent incident and the regulatory tightness, we will discuss the current arrangements for discharging the trade waste of high concentrations listed above.

It makes sense to issue you revised consent conditions.

Happy to discuss this when we meet today.

regards

Ramesh Sharma
Water & Wastewater Services Manager
Te Kaiwhakahaere Ratonga Wai me te Parakaingaki

Kāpiti Coast District Council
Tel 04 296 4863
Mobile 027 4761 317

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Thursday, 12 January 2023 5:09 pm
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey < >; Grant Stuart < >; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson < >
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Evening Ramesh,

Prior to tomorrows meeting, would you please send through a copy of the latest consent conditions for Tuatara Brewery.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile:
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Date: 12 January 2023 at 3:55:29 PM NZDT
To: Hayden Dudek < >; Reuben Mackey < >; Grant Stuart < >; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson < >
Subject: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Agenda:

1. To discuss the incident of this week. Impact on council RMA obligations and lwi reporting requirements.
2. Wastewater sample quality
3. Understanding of the gaps in discharges and their improvement plan
4. Review of fees and charges
5. AOB

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Meeting ID: 490 384 250 803

Passcode: TqHrd3

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant

Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP

Report No: JAN 230153

Special Note: Investigation DO drop in PWWTP

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
Wastewater GRAB collected 10/1/2023 from Tuatara Waste Tank	230153	11/1/2022			79000										5.7
Wastewater GRAB collected 10/1/2023 from Te Roto Pump Station	230154	11/1/2022			15000										5.7
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10206 - EPA approved	Hach Method 10296 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	Thermolisher Method ACD007	Standard Methods 23rd Edition 2570.	Standard Methods 23rd Edition 2300B.	Standard Methods 23rd Edition 4500-HFB.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant
Sample Analysis: Additional Monitoring for the Paraparaumu Waste Water Plant
Report No: 203114
Special Note: Post High DO load to the plant 31/7/2020

Site	Log No.	Date Analysed	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Nitrogen (TN) g/m3	Faec. Coliforms cfu/100ml	E.coli cfu/100ml
Paraparaumu Influent	203114	3/08/2020	>657.8	2620						
DNB tank	203115	3/08/2020	2511	13680						
ANB tank	203116	3/08/2020	2178	320						
DN5 tank	203117	3/08/2020	1896	690						
AE6 tank	203118	3/08/2020	1776	5510						
			Standard Methods 23rd Edition 5210 B.	Standard Methods 23rd Edition 5220 D. Hach Test Kit	Standard Methods 23rd Edition 4500-NH3 F. Hach TNT plus kits	Standard Methods 23rd Edition 4500-NH3 F. Hach TNT plus kits	Standard Methods 23rd Edition 4500 P-E.	Standard Methods 23rd Edition 4500-N C.TF Kits	Standard Methods 23rd Edition 9222 D.	Standard Methods 23rd Edition 9222 I.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager

Signed:



Date:

3/09/2020

KCDC LABORATORY, Fyterfield

Action Needed:

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant
Sample Analysis: Additional Monitoring for the Paraparaumu Waste Water Plant
Report No: 202465
Special Note: Post High DO load to the plant 18 June 2020

Site	Log No.	Date Analysed	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Nitrogen (TN) g/m3	Faec. Coliforms cfu/100ml	E.coli cfu/100ml
To Roto Wet Well	202465	18/6/20	1260	2840				71		
DNB tank	202466	18/6/20	3807	8050				684		
ANB tank	202467	18/6/20	-	116				-		
DN5 tank	202468	18/6/20	-	103				-		
AE6 tank	202469	18/6/20	-	27				-		
			Standard Methods 23rd Edition 5210 B.	Standard Methods 23rd Edition 5220 D. Hach Test Kit	Standard Methods 23rd Edition 4500-NH3 F. Hach TNT plus kits	Standard Methods 23rd Edition 4500-NH3 F. Hach TNT plus kits	Standard Methods 23rd Edition 4500 P-E.	Standard Methods 23rd Edition 4500-N C.TF Kits	Standard Methods 23rd Edition 9222 D.	Standard Methods 23rd Edition 9222 I.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager
KCDC LABORATORY, Fyterfield

Signed:



Date:

28/08/2020

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT

Client: Paraparaumu Waste Water Treatment Plant

Sample Analysis: Additional Monitoring for the Paraparaumu Waste Water Plant

Report No: JAN210359

Special Note: Investigation of High Suspended Solids in the PWWTP Effluent.



Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Faec. Coliforms cfu/100ml	E.coli cfu/100ml
PWWTP Clarifier 1	210359	22/1/2021	36.13									
PWWTP Clarifier 2	210360	22/1/2021	25.63									
PWWTP Clarifier 3	210361	22/1/2021	26.38									
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10206 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	ThermoFisher Method ACD007	Standard Methods 23rd Edition 9222 D.	Standard Methods 23rd Edition 9222 I.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager

KCDC LABORATORY, Fyfe field

Signed:

Date:

31/01/2021

Action Needed:

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant		
Sample Analysis: Additional Bacteria Monitoring for the Paraparaumu Waste Water Plant discharge in Mazengarb stream.		
Report No:	OCT 214456	
Special Note: Investigation Mazengarb Stream post UV outage at PWWTP.		

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Faec. Coliforms cfu/100ml	E.coli cfu/100ml
Effluent 24 hour composite collected 8/9 Oct	214456	11/10/21									580	260
Lindale Stream (US Control)	214460	9/10/21									70	50
Mazengarb Culvert	214461	9/10/21									590	360
Ratanui Lakes	214462	9/10/21									500	320
Outfall	214463	9/10/21									100	100
Waikanae River at Otaihangā Boating Club	214464	9/10/21									180	170
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10206 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	Thermofisher Method ACD007	Standard Methods 23rd Edition 9222 D.	Standard Methods 23rd Edition 9222 I.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager

Signed:

Date:

12/10/2021

KCDC LABORATORY, Fyfe Field Place, Paraparaumu

Action Needed:

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant		
Sample Analysis: Additional Bacteria Monitoring for the Paraparaumu Waste Water Plant discharge in Mazengarb stream.		
Report No:	SEP 224086	
Special Note: Investigation DO drop in PWWTP		

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Faec. Coliforms cfu/100ml	E.coli cfu/100ml	Enterococci cfu/100ml
Effluent GRAB collected 29/9/2022 - Pre UV treatment	224086	29/9/2022		12.3							510,000	370,000	113,000
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10206 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	ThermoFisher Method ACD007	Standard Methods 23rd Edition 9222 D.	Standard Methods 23rd Edition 9222 L.	Standard Methods 23rd Edition 9230 B.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.
Full details of the methods used are available on request.

REPORTED BY:
Kim Mazur, Laboratory Manager
KCDC LABORATORY, Fyfefield Place, Paraparaumu

Signed:

Date: 18/10/2022

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant	
Sample Analysis: Te Roto Pump station Sample collected 28 Dec 2022, Post DO drop at the PWWTP.	
Report No:	DEC 225498
Special Note: Investigation DO drop in PWWTP	

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
Wastewater GRAB collected 28/12/2022 at Te Roto Pump Station	225498	29/12/2022	1136.4	1023.0	2850	1290	17.1	1.7	<0.015	6.06	10.66	77	0.605	95	5.6
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B.	Hach Method 8000 - EPA approved	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10208 - EPA approved	Hach Method 10296 - EPA approved	Standard Methods 23rd Edition 4500 P/E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	ThermoFisher Method ACD007	Standard Methods 23rd Edition 2510.	Standard Methods 23rd Edition 2320B.	Standard Methods 23rd Edition 4500-H/B.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager

Signed:

Date:

5/01/2023

KCDC LABORATORY, Fyfefield Place, Paraparaumu

Action Needed:

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KAPITI COAST DISTRICT COUNCIL LABORATORY REPORT



Client: Paraparaumu Waste Water Treatment Plant	
Sample Analysis: Samples collected from Tuatara Brewery Wastewater tank and Te Roto Pump Station Post DO Drop in the PWWTP	
Report No:	JAN 230153
Special Note: Investigation DO drop in PWWTP	

Site	Log No.	Date Analysed	Suspended Solids (TSS) g/m3	Biological Oxygen Demand (BOD) g/m3	Chemical Oxygen Demand (COD) g/m3	Soluble Chemical Oxygen Demand (sCOD) g/m3	Total Ammonia-nitrogen (NH4-N) g/m3	Nitrate Nitrogen (NO3-N) g/m3	Nitrite Nitrogen (NO2-N) g/m3	Dissolved Reactive Phosphate (DRP) g/m3	Total Phosphate (TP) g/m3	Total Nitrogen (TN) g/m3	Conductivity ms/cm	Alkalinity (CaCO3) g/m3	pH
Wastewater GRAB collected 10/1/2023 from Tuatara Waste Tank	230153	11/1/2022			79000										5.7
Wastewater GRAB collected 10/1/2023 from Te Roto Pump Station	230154	11/1/2022			15000										5.7
			Standard Methods 23rd Edition 2540 D.	Standard Methods 23rd Edition 5210 B	Hach Method 8000 - EPA approved	Hach Method 8000 - EPA approved	Hach Method 10205 - EPA approved	Hach Method 10208 - EPA approved	Hach Method 10209 - EPA approved	Standard Methods 23rd Edition 4500 P-E / Hach Method 10210 - EPA approved	Hach Method 10214 - EPA approved	ThermoFisher Method ACD007	Standard Methods 23rd Edition 2510.	Standard Methods 23rd Edition 2320B.	Standard Methods 23rd Edition 4500-HB.

Any queries relating to this report should be addressed to the Laboratory Manager at the address below.

Full details of the methods used are available on request.

REPORTED BY:

Kim Mazur, Laboratory Manager

Signed:



Date:

11/01/2023

KCDC LABORATORY, Fyfefield Place, Paraparaumu

Action Needed:

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From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent time: 01/12/2023 05:08:33 PM
To: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Cc: Reuben Mackey <[REDACTED]>; Grant Stuart <[REDACTED]>; Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Ben Thompson <[REDACTED]>
Subject: RE: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Evening Ramesh,

Prior to tomorrows meeting, would you please send through a copy of the latest consent conditions for Tuatara Brewery.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.
Mobile: [REDACTED]
1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz
Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz

From: Ramesh Sharma <Ramesh.Sharma@kapiticoast.govt.nz>
Date: 12 January 2023 at 3:55:29 PM NZDT
To: Hayden Dudek <[REDACTED]> Reuben Mackey <[REDACTED]> Grant Stuart <[REDACTED]> Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>, Ben Thompson <[REDACTED]>
Subject: Tuatara Brewery Trade waste consent- Review of the consent and fees and charges

Agenda:

1. To discuss the incident of this week. Impact on council RMA obligations and Iwi reporting requirements.
2. Wastewater sample quality
3. Understanding of the gaps in discharges and their improvement plan
4. Review of fees and charges
5. AOB

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Meeting ID: 490 384 250 803

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Organiser	Subject	Location	Time	Agenda
Ramesh Sharma	Tuatara Brewery Trade waste consent- Review of the consent and fees and charges	Onsite at Tuatara Brewery	Friday, 13 January 2023 11:30 am-12:30 pm	<p>1)To discuss the incident of this week. Impact on council RMA obligations and Iwi reporting requirements.</p> <p>2)Wastewater sample quality</p> <p>3)Understanding of the gaps in discharges and their improvement plan</p> <p>4)Review of fees and charges</p> <p>5)AOB</p> <p>Hi Tupu</p> <p>I am organising a catchup meeting on Wednesday 15th February. This is the only suitable timing available before you go on holidays.</p> <p>The agenda to discuss in the meeting, at a high level, is about the consent conditions besides the scope of work that required before grant of the consent.</p> <p>The scope of work includes, but not limited to,</p> <ul style="list-style-type: none"> -the requirement of installing a composite sampler, -the frequency of sampling and the cost, -who will test the sample (we expect to be tested at Council's lab, if not the test results sharing etc.) -Install another meter that will measure the whole flow from the site, possibly linking this meter to the SCADA. <p>The flow meter is required as we have identified that the existing flow meter is not measuring the floor wash directed to the manhole after your meter. Then may discuss any other issues from both parties.</p> <p>Thanks.</p> <p>Kind regards.</p> <p>Ramesh Pillai Senior Asset Planning Engineer Te Kaipūhanga Matua Whakamahere Rawa Tel 04 2964 731 Mobile 027 5554 870</p> <p>Good morning All</p> <p>Re: Tradewaste Consent – Tuatara Brewery</p> <p>I am organising this meeting following a discussion (phone call a while ago) with Tupu @ Tuatara. He is going to provide a response in a day or two. He has agreed for a meeting on Thursday afternoon for further discussion.</p> <p>Thanks.</p>
Ramesh Pillai	My contact details below, Regards, Tupu	Microsoft Teams Meeting	Wednesday,15 February 2023 10:30 am -12:30 pm	
Ramesh Pillai	Draft Trade Waste Permit Conditions	Microsoft Teams Meeting	Thursday, 23 March 2023 1:00 pm- 02:00 pm	<p>Ramesh Pillai Senior Asset Planning Engineer Te Kaipūhanga Matua Whakamahere Rawa Tel 04 2964 731 Mobile 027 5554 870</p> <p>Rescheduling this meeting.</p>
Ramesh Pillai	Draft Conditional Trade Waste Consent for Tuatara Brewery	Microsoft Teams Meeting	Thursday, 24 August 2023 3:00 pm- 04:00 pm	<p>Hi Grant and Tess</p> <p>This meeting is to discuss and prepare response to Tuatara's improvement plan.</p> <p>Thanks</p>

[REDACTED]

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Friday, 22 March 2024 12:08 pm
To: Sean Mallon
Cc: Ramesh Pillai
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Sean,

Many thanks for your mail. Susan Owens had separately reached out to our Comms team, and we provided some inputs for your media statement to her. We had also given a very brief response to a media enquiry from Kapiti News clarifying that the reason for the move was due to various factors and not solely due to the wastewater consent.

Appreciate your support with this and kind words towards the move despite the circumstance. Hopefully cool heads prevail, and any chatter dies away quickly.

Cheers, Tupu

From: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Sent: Thursday, March 21, 2024 1:03 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: FW: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Tupu,

I was sorry to hear that your owners, DB Breweries, have made the business decision to move Tuatara's production from Kāpiti to Brewtown in Upper Hutt.

I am aware that there are always a range of factors that influence these sorts of business decisions but through our conversations about how staged improvements for managing wastewater could be delivered at Tuatara's Sheffield St site I certainly thought Tuatara was here to stay and there was more dialogue to occur. This is a big loss for our community and I hope the shift is progressing well.

We are aware that there is a bit of misinformation circulating locally as to why DB made this business decision and I would appreciate it if you could help us out and correct this misinformation as we are getting a significant amount of negative feedback, some of which is directed at staff. We are also aware that there are some T-Shirts in circulation that don't shed Council in a positive light.

Our Mayor will be issuing a media advisory shortly that acknowledges the role Tuatara has playing in helping to put Kāpiti on the map.

I wish you and your team all the best for the months ahead.

Nga mihi,

Sean Mallon
Group Manager Infrastructure and Asset Management
Te Kaihautū Ratonga Pakiaka

Kāpiti Coast District Council
Tel 04 296 4690
Mobile 027 555 5690

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, February 12, 2024 4:05 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

Thank you for your email. I would like to update you with some significant news about Tuatara. As you know, we have been progressing well with improvements to our wastewater discharge. However, we identified that we would need to make significant investment to ensure we are able to maintain the required limits. As a result of a recent review of the site's long term suitability, we have decided to invest in a new, purpose-built brewery for Tuatara at Brewtown in Upper Hutt. As part of this initiative, we are planning to relocate the Tuatara Brewery to the new facility by the end of this year. This move will enable us to create a future-fit site, capable of producing and packing not just Tuatara beer but also different products and pack formats. We are currently working through the consultation process with affected team members. We value your support, especially over the past year, and look forward to continuing to operate within the Wellington region and maintaining a close connection to the local community. I will keep you updated throughout the process.

Kind regards,
Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Friday, February 9, 2024 2:22 PM
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu
Thank you for the time to discuss about the Tradewaste consent and related improvement projects at your end. Could you provide an update of your projects.
Kind regards.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Sent: Monday, December 11, 2023 10:27 AM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

Thank you for your email. We have now worked through our process for 2024 to align on plans for the Tuatara Brewery. At this stage, we have decided we will not increase volume beyond the 30 m3 daily day capability as we focus on discharge impact rather than production outputs.

Since we developed our improvement plan, we have put a range of measures in place to reduce our wastewater concentration and volume, including installing more buffering capacity to control the peak discharge level.

Test results show improvements and are highlighted in blue in the attached, updated improvement plan. Through this process, we have identified that we would need to make significant investment to ensure we maintain the required limits. These costs are also included in the updated plan.

Due to the scale of investment and time to implement solutions, we seek your feedback on the feasibility of on-site options and insight to any progression in the Kapiti Coast District Council's long term strategy for providing local employers with access to municipal treatment facilities.

Nga mihi,
Tupu

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Saturday, 2 December 2023 5:45 pm
To: Lauren Mentjox <[REDACTED]> Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Lauren and Tupu

Based on my previous communication with Lauren, your organisation's board meeting was indicated for 23rd November.

Could you please provide an update towards the improvement programme at your end towards Tradewaste management.

Thanks.

Ramesh Pillai
Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Lauren Mentjox <[REDACTED]>
Sent: Sunday, November 12, 2023 12:14 PM
To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>; Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Kia ora Ramesh,

I hope you're having a great weekend. I have tried to contact Sean to discuss this so will try again first thing in the morning.

Kind regards,
Lauren

From: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>
Sent: Sunday, 12 November 2023 11:49 am
To: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>
Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>
Subject: RE: KCDC -Tuatara Brewery action point 03/10/23

Hi Tupu

FYI, Its one month plus since our last meeting on 3rd Oct 2023.

I have not received any communication from you for the detailed improvement plan that you were to send to KCDC.

Please provide the required info in a week's time as we need to come to a decision about the arrangements and flow parameters to be considered for the trade waste consent to be issued ASAP.

Looking forward to hearing from you ASAP.

Kind regards.

Ramesh Pillai

Acting Manager, Water & Wastewater Services
Te Kaipūhanga Matua Whakamahere Rawa

Kāpiti Coast District Council
Tel 04 2964 731
Mobile 027 555 4870

www.kapiticoast.govt.nz

From: Tupu Gregory <Tupu.Gregory@tuatarabrewing.co.nz>

Sent: Tuesday, October 10, 2023 11:48 AM

To: Ramesh Pillai <Ramesh.Pillai@kapiticoast.govt.nz>

Cc: Sean Mallon <sean.mallon@kapiticoast.govt.nz>; Lauren Mentjox <[REDACTED]>

Subject: KCDC -Tuatara Brewery action point 03/10/23

Morning Ramesh,

Once again thanks for your time last week.

As we communicated in the meeting to yourself and Sean, Tuatara is looking to have a sizable increase in production in 2024. Understanding the Councils viewpoint on wastewater has been helpful and the requirement for modelling work via Stantech is understandable. In review of the meeting, the TEG engineers and myself have settled on the following approach.

- Tuatara to immediately review the 2024 forecasted production figures and resulting increase in wastewater volumes, BOD/TSS
- TEG to investigate the technology and capabilities of a localised site waste water treatment plant at Tuatara
- Tuatara to then engage with KCDC/Stantech to model the Council waste water plant capabilities based on the additional volume from Tuatara post site treatment

We believe that this stepped approach is the best way forward as it will reduce in the first instance, loading to the council treatment plant. If you have any questions or concerns please reach out.

Thanks, Tupu

Tupu Gregory, Brewery Manager - Tuatara & Redwood, DB Breweries Ltd.

Mobile: [REDACTED]

1 Bairds Road, Papatoetoe, Auckland 2025 www.db.co.nz

Customer Contact Centre: 0800 RINGDB (0800 746432) or contactcentre@db.co.nz



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