

10 May 2021

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████████████████████

Tēnā koe ██████████

Request for Information – Local Government Official Information and Meetings Act 1987

We refer to your official information request dated 9 April 2021 for information regarding the Wainuiomata Cleanfill. We have provided our answers under each of your questions listed below.

1. All documentation in connection with your appointment as the Hutt City Council regulator for the operations of the Wainuiomata Cleanfill.

Answer: Hutt City Council delegates Resource Management Act regulation and enforcement to officers, namely the Team Leader Resource Consents and Monitoring and Enforcement Officers. This is set out in the delegation register, an excerpt from this is attached as Appendix 1. Enforcement decisions are made between these two roles to ensure that we are being consistent with all offenders.

2. All documentation in connection with your reporting structure, and those who you report, in connection with the Wainuiomata Cleanfill.

Answer: As previously advised on this matter, Parvati Rotherham reports through to Derek Kerite, and Derek, rather than reporting through to Helen Oram, is reporting to Jo Miller. The consent holder formerly Dave Dews reports directly through to Helen Oram.

Answer: As of 3 May 2021 a new organisation structure has been implemented. Parvati Rotherham reports through to the Head of Planning, this position is currently vacant, and for this reason Parvati reports to Jo Miller regarding decisions relating to the Wainuiomata Cleanfill.

3. All correspondence, reports and any other documentation issued by you in your capacity as Regulator of the Wainuiomata Cleanfill relating to breaches of the Cleanfill's consent conditions since the 2019 resource consent was granted.

Answer: All correspondence and documentation issued and received is attached as Appendix 2.

4. All correspondence, reports and any other documentation received by you in your capacity as Regulator of the Wainuiomata Cleanfill relating to breaches of the Cleanfill's consent conditions since the 2019 resource consent was granted.

Answer: Please refer to the answer for question three.

You have the right to seek an investigation and review by the Ombudsman of this decision. Information about how to make a complaint is available at www.ombudsman.parliament.nz or freephone 0800 802 602.

Please note that this letter (with your personal details removed) may be published on the Council's website.

Nāku noa, nā

A handwritten signature in black ink, appearing to read 'Derek Kerite', with a stylized, cursive script.

Derek Kerite
Head of Environmental Consents
City Transformation

Appendix 1: Excerpt from: DELEGATIONS REGISTER

.3 2A – Policy and Planning

LEGISLATION	AUTHORITY AND POWERS DELEGATED	DELEGATION (From Chief Executive to the officer(s) holding the positions specified)
(Resource Management Act 1991 continued...)	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 27, 32, 36(3), 36(5), 37, 37A, 42A(1), 42A(5), 80, 82, 85B, 86D, 91, 92, 99, 99A, 100, 101, 102, 103, 149B, 149F, 149G, 149I, 149M, 149ZD, 168A, 169, 170, 171, 181, 182(2), 182(5), 184(1), 184(2), 184A, 189A, 190, 191, 195A(3), 196, 198C(5), 198D, 198F, 198J. ➤ Schedule 1, clauses: 1, 2, 3, 4, 8AA, 9, 16, 20A, 23, 28(2), 34, 35. 	Head of District Plan.

8.3.1 2C – Environmental Consents

LEGISLATION	AUTHORITY AND POWERS DELEGATED	DELEGATION (From Chief Executive to the officers holding the positions specified)
Resource Management Act 1991 and any Regulations made under that Act	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 27, 36(3), 36(5), 36A, 37, 37A, 42A(1), 42A(5), 87BA, 87BB, 87E, 88, 91, 92, 92A, 95, 95A-95G, 99, 99A, 100, 101, 102, 103, 104-104D, 108, 108A, 109, 124-124C, 125, 126, 127, 128, 130, 132, 133A, 138, 139, 139A, 149B, 149F, 149G, 176A, 221, 222, 223, 224, 226, 234, 235, 237B, 240, 241, 243, 316, 322, 325A, 330, 339C, 343C. 	Head of Environmental Consents.
	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 27, 36(3), 36(5), 36A, 37, 37A, 42A(1), 42A(5), 87BA, 87BB, 88, 91, 92, 92A, 95, 95A-95G, 99, 99A, 100, 101, 102, 103, 104-104D, 108, 108A, 125, 126, 127, 128, 130, 132, 133A, 138, 139, 139A, 176A, 221, 222, 223, 224, 226, 234, 235, 237B, 240, 241, 243, 316, 322, 325A, 339C, 343C. 	Team Leader Resource Consents. Principal Planner.

LEGISLATION	AUTHORITY AND POWERS DELEGATED	DELEGATION (From Chief Executive to the officers holding the positions specified)
(Resource Management Act 1991 continued...)	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 36(3), 36A, 42A(1), 87BA, 87BB, 88, 91, 92, 92A, 95, 95A-95G, 99, 104-104D, 108, 125, 127, 128, 133A, 138, 139, 139A, 176A, 235, 237B (excluding 237B(8)), 322, 339C, 343C. 	Resource Consents Planner.

8.3.1 2C – Environmental Consents

LEGISLATION	AUTHORITY AND POWERS DELEGATED	DELEGATION (From Chief Executive to the officers holding the positions specified)
Resource Management Act 1991 and any Regulations made under that Act	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 27, 36(3), 36(5), 36A, 37, 37A, 42A(1), 42A(5), 87BA, 87BB, 87E, 88, 91, 92, 92A, 95, 95A-95G, 99, 99A, 100, 101, 102, 103, 104-104D, 108, 108A, 109, 124-124C, 125, 126, 127, 128, 130, 132, 133A, 138, 139, 139A, 149B, 149F, 149G, 176A, 221, 222, 223, 224, 226, 234, 235, 237B, 240, 241, 243, 316, 322, 325A, 330, 339C, 343C. 	Head of Environmental Consents.
	<p>All the functions and powers of Council under the following provisions of the Act:</p> <ul style="list-style-type: none"> ➤ Sections: 27, 36(3), 36(5), 36A, 37, 37A, 42A(1), 42A(5), 87BA, 87BB, 88, 91, 92, 92A, 95, 95A-95G, 99, 99A, 100, 101, 102, 103, 104-104D, 108, 108A, 125, 126, 127, 128, 130, 132, 133A, 138, 139, 139A, 176A, 221, 222, 223, 224, 226, 234, 235, 237B, 240, 241, 243, 316, 322, 325A, 339C, 343C. 	Team Leader Resource Consents. Principal Planner.

From: Parvati Rotherham
Sent: Friday, 23 October 2020 5:07 PM
To: 'Alastair Meehan'; Enforcement; Aaron Healy; Dave Dews
Cc: Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey
Attachments: 2020.10.21 Noise Monitoring Report Final.pdf; 7(2)(a) .png

Hi Alastair,

We do have some concerns about the analysis of the noise measurements. Can we set up a time to discuss with you and noise experts (they can be teams/zoomed in). Next Thursday morning would be good.

Our initial comments below and attached.

Thanks,

Parvati

I have attached an aerial photo showing the notional boundary at 7(2)(a)

I query the claim that the measured noise level should be reduced from 59dBA to 57dBA LAeq, due to the measurement location being closer to the cleanfill than the notional boundary. The plan clearly shows it is in line with the notional boundary.

I would like to know about the method of averaging – I did request that they present the report similar to the examples shown in NZS6802:2008, however that does not appear to have been done.

I also question whether there are in fact special audible characteristics, due to the impulsiveness of the truck tailgate slamming. While these are intermittent, the noise certainly appears to be impulsive.

I measured 63dBA LAeq, which is 4dBA above their measurement. By reducing my level by 5dBA due to the duration of noise occurring less than 30% of the prescribed time frame, it still shows a non-compliance, being 8dBA above the RC limit.

From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Wednesday, 21 October 2020 12:40 PM
To: Enforcement; Parvati Rotherham; Aaron Healy; Dave Dews
Cc: Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Paul,

Sorry for the delay, but please find attached the noise monitoring results from September.

Happy to discuss once you've had a chance to review.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Paul Duffin <Paul.Duffin@huttcity.govt.nz> **On Behalf Of** Enforcement
Sent: Tuesday, 20 October 2020 8:16 AM
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Good morning Alastair.

Has the report been finalised yet and if it has can you please send your findings through urgently as it has been some time since you said it wasn't far away?

Paul

From: Parvati Rotherham
Sent: Wednesday, 30 September 2020 3:09 PM
To: Alastair Meehan; Aaron Healy
Cc: Enforcement; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey


thanks Alastair - appreciate the prompt update 😊

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Wednesday, 30 September 2020 3:08 PM
To: Parvati Rotherham; Aaron Healy
Cc: Enforcement; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Parvati,

Aiming for the end of this week. Working through the review process now.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 30 September 2020 2:59 PM
To: Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Aaron and Alastair,

any idea when we might get the noise results from the sampling the other week.

thanks,

Parvati

From: Aaron Healy [<mailto:AHealy@tonkintaylor.co.nz>]
Sent: Thursday, 10 September 2020 1:31 PM
To: Dean Bentley
Cc: Alastair Meehan; Parvati Rotherham; Enforcement
Subject: RE: Coast Road Cleanfill noise survey

Hi Dean,

I'm pleased to hear Wednesday suits, we can communicate at the start of next week around start times and any changes to accommodate weather.

Thanks for the observations, we can discuss the remained of your email on site next week.

Ngā Mihi | Kind regards,

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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From: Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Sent: Thursday, 10 September 2020 12:45 pm
To: Aaron Healy <AHealy@tonkintaylor.co.nz>
Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Enforcement <enforcement@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Aaron,

Wednesday is good for me.

Location 2 is of most concern, being the closest to the works were occurring when I surveyed.

One point I would like to query is the measurement location in the table below being 6m closer than the notional boundary – I have copied a plan of the site below, showing the measurement location (both mine and the T&T acoustician) in blue, which is actually behind the notional boundary, measured and shown in green. I have drawn the angle of the NB measurement towards where the activity was occurring.

Hopefully the weather is suitable, Wellington suffers from high winds this time of year (more than usual).

Regards

From: Aaron Healy [<mailto:AHealy@tonkintaylor.co.nz>]
Sent: Thursday, 10 September 2020 11:10 AM
To: Dean Bentley
Cc: Alastair Meehan
Subject: RE: Coast Road Cleanfill noise survey

Hi Dean,

I'm looking to arrange a time to visit the cleanfill to undertake joint noise measurements.

With the current weather predictions Wednesday next week looks to be the best option, however I expect this may change over the weekend.

Can I get an idea of if there are any specific times or days that do or don't work for you? Morning would be preferable.

I have tried to reach you by cell but must have caught you during appointments. If this is easier to discuss by phone would you be able to call me at a time that suits you? My phone numbers are in my email signature.

As far as the measurement are concerned, I am intending on taking two sets of 15 minute measurements in each of the locations in the previous T+T report (detailed in the table below), with the potential addition of another property to the south at the request of the resident. These measurements will be used to meet the cleanfill's quarterly noise monitoring requirement . After that I intend on taking another measurement over multiple hours at 7(2)(a) I understand this to be the closest residence and where your measurements were taken. The purpose of these measurements is to understand how noise from site operation changes throughout the remainder of the day.

If you could let me know which measurements you want to witness and how long you intend on spending on site that would help me with scheduling the days measurements. I presume that locations 2, 3, and 4 will be of most interest to you but you are most welcome to join for the full day should you have the time.

Monitoring location	Description	Comment
Location 1	Within property of 7(2)(a)	7(2)(a)
Location 2	Entrance to 7(2)(a)	
Location 3	Within property of 7(2)(a)	
Location 4	Within property of 7(2)(a)	
Location 5	Ngaturi Park	
		c5 m closer to the site than the notional boundary location

Ngā Mihi | Kind regards,

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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From: Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Sent: Tuesday, 8 September 2020 1:54 pm

To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Enforcement <enforcement@huttcity.govt.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>

Cc: Ed Breese <EBreese@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>

Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

I have appointments at various times, but I will do my best to work around those.

My cell number is 0272311873 for Aaron to contact me on.

Dean Bentley

Environmental Health Team Leader

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand

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From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Tuesday, 8 September 2020 1:47 PM
To: Enforcement; Parvati Rotherham; Dave Dews
Cc: Ed Breese; Aaron Healy; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Paul,

Yes, Aaron has booked his flights and will be in Wellington from next week. His preference is to undertake the monitoring early in the week (so that the analysis can be completed ASAP) but that remains somewhat weather dependant. We are keeping an eye on the weather forecasts though and I'll update you again later in the week..

Dean – do you have any specific days / times that are broadly unsuitable? As previously flagged it would be good if we could have a HCC representative there if possible.

Alastair

From: Paul Duffin <Paul.Duffin@huttcity.govt.nz> **On Behalf Of** Enforcement
Sent: Tuesday, 8 September 2020 1:30 PM
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>
Cc: Ed Breese <EBreese@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Alistair.

Any update on when the noise monitoring will be undertaken?

Paul Duffin
Senior Environmental Investigations Officer

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
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From: Parvati Rotherham
Sent: Friday, 28 August 2020 1:52 PM
To: Alastair Meehan; Dave Dews
Cc: Enforcement; Ed Breese; Aaron Healy; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

thanks for the proposal to arrange for joint testing with HCC and T&T. This noise monitoring should be done when then there is the maximum amount of activity occurring on site to get the worst case scenario.

I've copied in Dean and checked his availability for the week of the 14th he does have some flexibility that we can work around. Let us know once Aaron has booked his flights and some suggested times.

As mentioned below, until this noise monitoring is undertaken please ensure that heavy machinery is used sparingly.

kind regards,

Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Thursday, 27 August 2020 5:23 PM
To: Parvati Rotherham; Dave Dews
Cc: Enforcement; Ed Breese; Aaron Healy
Subject: RE: Coast Road Cleanfill noise survey

Thanks Parvati and Dean,

I have passed this over to our acousticians for an initial review. Obviously if those measurements are correct, they represent a very different noise profile when compared against previous monitoring (dated July 2020) and the noise modelling work previously undertaken by both Marshall Day (Stages 1 and 2) and T+T (Stage 3).

Based on discussions with our acousticians and the information provided I understand it is difficult to comment on the approach taken by Dean in deriving the LAeq value below. This is due to the number of potential variables (including calibration of equipment, exclusion of background noise, the applicability of the notional boundary and the application of the NZS assessment criteria for intermittent noise generation – such as the operation of the dozer and front-end loader). To resolve this T+T are offering to fly up one of our Christchurch-based acousticians (Aaron Healy) to accompany Dean on a further monitoring visit and ensure that all parties have confidence in the measured noise levels. He would also be available to discuss NZS 6802 with Dean.

Aaron is currently available the week of the 14th September. Please let me know if this date(s) is acceptable to both HCC (as regulator) and to Dean (as the person likely to accompany Aaron).

In the meantime, I will reiterate to the site operator that heavy machinery is to be used sparingly while this work is undertaken. I do however note that this is already the case, with best estimates being that the dozer and/or front-end loader are typically used for no more than 60-90 minutes per day.

Parvati – can you please have a think and let me know whether that represents an agreeable solution from your end? Happy to discuss further or arrange a conference call with all parties if needed.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 26 August 2020 1:59 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>
Subject: FW: Coast Road Cleanfill noise survey

Hi Alastair and Dave,

Due to the compliant we had on Monday, we went out yesterday to undertake some noise readings. The results are attached and the analysis is below.

Please can you get your acoustic specialist to explain and provide any actions you can undertake to ensure compliance with the noise standards within the next 7 days.

thanks,

Parvati

From: Dean Bentley
Sent: Wednesday, 26 August 2020 10:56 AM
To: Parvati Rotherham
Cc: Dipal Dhanani; Skye McConnell; Sarah van Mil; David Tu; Jeremy Peat
Subject: Coast Road Cleanfill noise survey

Hi Parvati,

I took an opportunity to carry out a noise survey yesterday, measured from the same location as T&T's acoustician at 7(2)(a)

I have attached the results of the noise levels for the cleanfill activities and also a residual (ambient noise) from further up Coast Road so as to exclude the cleanfill noise.

The noise level emanating from the cleanfill was **63dB LAeq**, measured over a 30 minute period. I was able to effectively exclude traffic noise.

The residual results indicate that the clean fill noise was not contaminated by the residual sound, and therefore no adjustment to the clean fill noise is required.

- The dozer was operating for the first 5 minutes and a noise level of up to about 62dBA observed.
- The front end loader was then used for the duration of the survey, with a noise level of up to about 59dBA observed.
- Trucks visiting the site produced noise levels of up to 74dBA (tailgate slamming), 51-69dBA (unloading).
- Truck reversing beepers 55dBA.

While these results indicate a breach of the RC condition (50dBA LAeq), I have to advise that I have not previously assessed noise against the 2008 NZ Standard.

I think it is still worthwhile presenting these findings to T&T for their review and feedback, however ultimately, an independent consultant may need to be engaged to peer review my methodology and findings.

Regards

Dean Bentley

Team Leader Environmental Health

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From: Parvati Rotherham
Sent: Thursday, 11 March 2021 12:56 PM
To: 'Alastair Meehan'
Cc: Paul Duffin
Subject: RE: Wainuiomata Cleanfill CLG meeting

Hi Alastair

thank you for the notification. Please confirm exact start date for the construction activity and more detail about the expected duration please.

thanks,

Parvati

Parvati Rotherham
Team Leader Resource Consents

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
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From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Thursday, 11 March 2021 10:58 AM
To: Charlie Hopkins; 7(2)(a); LoveWainuiomata@gmail.com; Wainuiomata Community Board; 7(2)(a); Camp Wainuiomata; 7(2)(a); Gary O'Meara; 7(2)(a); Dave Dews; max.curnow@gw.govt.nz; Keri Brown; Gabriel Tupou; 7(2)(a); Krisna Crowley Nepia; Helen Oram; Parvati Rotherham; David Pannekoek; 7(2)(a)
Cc: Paul Duffin
Subject: RE: Wainuiomata Cleanfill CLG meeting

Good morning all,

I'm piggybacking on this email to pass on a notice received yesterday from the site operator regarding upcoming construction works. Please consider this notice of these works in accordance with Condition 14 of the consent.

Best wishes,

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Charlie Hopkins <charlie@thecatalystgroup.co.nz>
Sent: Tuesday, 9 March 2021 3:04 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; 7(2)(a); LoveWainuiomata@gmail.com; Wainuiomata Community Board <WainuiomataCommunityBoard@huttcity.govt.nz>; 7(2)(a); Camp Wainuiomata <campwainui@xtra.co.nz>; 7(2)(a); Gary O'Meara <Gary.O'Meara@wellingtonwater.co.nz>; 7(2)(a); Allison Burdon <principal@wainuiomata.school.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>; max.curnow@gw.govt.nz; Keri Brown <Keri.Brown@huttcity.govt.nz>; Gabriel Tupou <Gabriel.Tupou@huttcity.govt.nz>; 7(2)(a); Krisna Crowley Nepia <Krisna.CrowleyNepia@huttcity.govt.nz>; Helen Oram <Helen.Oram@huttcity.govt.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; 7(2)(a);
Cc: Paul Duffin (Paul.Duffin@huttcity.govt.nz) <Paul.Duffin@huttcity.govt.nz>
Subject: RE: Wainuiomata Cleanfill CLG meeting

Kia ora koutou

Thank you for the kind messages which I received via email last week, I have now returned to work albeit from home at this stage. I am aiming to be back in the office next week.

Regarding the next CLG meeting, the Library is booked out for the rest of March but I can confirm that we are able to use the **Bilberbeck Hall at 103 Main Road Wainuiomata** (the Lions Club) from **7-9 pm Thursday 25 March**. I have already circulated the draft agenda and the compliance audit but I will reattach them to this email for your convenience. I received some feedback on the draft agenda and have made those amendments into this new draft agenda. If I have missed anyone off this email can you please forward this email to them.

I will also invite Paul Duffin to the next CLG meeting as he may be able to assist the CLG members with questions regarding compliance.

I look forward to seeing you all on Thursday 25 March.

Kind regards, nga mihi.
Charlie.

Charlie Hopkins
Principal Planner
[The Catalyst Group](#)
[LinkedIn](#)
m: 0272285292

From: Charlie Hopkins <charlie@thecatalystgroup.co.nz>

Sent: Tuesday, 2 March 2021 5:28 PM

To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; 7(2)(a); LoveWainuiomata@gmail.com;
Wainuiomata Community Board <WainuiomataCommunityBoard@huttcity.govt.nz>; 7(2)(a);
7(2)(a); Camp Wainuiomata <campwainui@xtra.co.nz>; 7(2)(a)

Gary O'Meara <Gary.O'Meara@wellingtonwater.co.nz>; 7(2)(a)

Allison Burdon <principal@wainuiomata.school.nz>; Dave Dews
<Dave.Dews@huttcity.govt.nz>; max.curnow@gw.govt.nz; Keri Brown <Keri.Brown@huttcity.govt.nz>; Gabriel
Tupou <Gabriel.Tupou@huttcity.govt.nz>; 7(2)(a)
Krisna Crowley Nepia <Krisna.CrowleyNepia@huttcity.govt.nz>; Helen Oram
<Helen.Oram@huttcity.govt.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; 7(2)(a)

Cc: Charlie Hopkins <charlie@thecatalystgroup.co.nz>; Greg Carlyon <greg@thecatalystgroup.co.nz>

Subject: Re: Wainuiomata Cleanfill CLG meeting

Kia ora koutou

I have several observations to make ahead of the upcoming CLG meeting that is scheduled for this Thursday. As the recently appointed chair I feel some level of responsibility to keep the attendees on the night healthy and safe, including from the threat of COVID-19. Therefore, with the country elevating its response to level-2 for all areas of Aotearoa New Zealand outside of Auckland, there are social distancing and contact tracing requirements for this meeting. It is my understanding that the intention of the CLG meetings is to bring members of the community together and to share information about the operation of the cleanfill on Coast Road. It appears to me that social distancing would be counter-productive to the purpose of this CLG meeting (to come together and to liaise).

7(2)(a)

While I appreciate that this CLG meeting is not for my benefit, I would still like to participate in-person in the regular meeting of the CLG.

Finally, with the audit recently being published online last week I suspect that the compliance audit and its findings will be a major component of the discussions at the next CLG.

For all three of these reasons, I recommend that the next CLG meeting is postponed for a further date before the end of March (that is, no more than three-week delay) so that all members of the CLG can meet safely. Also, at that time I can attend in-person to facilitate a discussion between parties.

I respect that this decision ultimately falls with the consent holder as it is their responsibility to achieve compliance with the condition which requires the CLG to be operated.

I pass on my sincere apologies for the inconvenience caused but I am sure that between recent level 2 restrictions, and my recent health impacts that this is a fair and reasonable request of you all.

All the best, nga mihi

Charlie Hopkins, Principal
The Catalyst Group.

From: Alastair Meehan

Sent: Friday, 22 January 2021 5:27 PM

To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; 7(2)(a)
[redacted]; LoveWainuiomata@gmail.com <LoveWainuiomata@gmail.com>; Wainuiomata
Community Board <WainuiomataCommunityBoard@huttcity.govt.nz>; 7(2)(a)
Camp Wainuiomata <campwainui@xtra.co.nz> 7(2)(a)
[redacted]

Gary O'Meara

<Gary.O'Meara@wellingtonwater.co.nz>; 7(2)(a)
[redacted]

Allison Burdon

<principal@wainuiomata.school.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>; max.curnow@gw.govt.nz
<max.curnow@gw.govt.nz>; Keri Brown <Keri.Brown@huttcity.govt.nz>; Gabriel Tupou
<Gabriel.Tupou@huttcity.govt.nz>; Craig Innes <craig.b.innes@gmail.com>; Charlie Hopkins
<charlie@thecatalystgroup.co.nz>; 7(2)(a) Krisna Crowley Nepia
<Krisna.CrowleyNepia@huttcity.govt.nz>; Helen Oram <Helen.Oram@huttcity.govt.nz>; Parvati Rotherham
<Parvati.Rotherham@huttcity.govt.nz>; 7(2)(a)
[redacted]

Subject: Wainuiomata Cleanfill CLG meeting
When: Thursday, 4 March 2021 7:00 PM-8:30 PM.
Where: Wainuiomata Library

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From: Parvati Rotherham
Sent: Monday, 14 December 2020 4:28 PM
To: 'Alastair Meehan'; Dave Dews; Dean Bentley
Cc: Darran Humpheson; Aaron Healy; Steve Arden
Subject: RE: Discussion of September monitoring results

Hi Alastair,

apologies for the delay with getting back to you on this matter. You asked for our agreement on your notes, I have discussed this with our noise experts and we comment as detailed below:

1. There is agreement between noise experts from both T+T and Marshall Day that the application of a SAC penalty is not necessary given the nature of noise onsite;
The agreement here is that if the noise from tailgates can be eliminated, then a penalty would not be applicable. I acknowledge that at times, there may be the odd bang due to inappropriate management. However, the number of times should be minimal to avoid the penalty, The penalty should be applied if it is a common occurrence. Anecdotal evidence suggests that the tail gate slamming is happening on a regular basis
2. The Marshall Day review identified that the maximum duration adjustment available under 6802:2008 is 5dB. T+T's noise experts agree with this.
3. The Marshall Day review then suggests that the consent conditions are being exceeded by 10dB (based upon a representative noise level of 65dB LAeq). T+T's noise experts disagree with this point. July 2020 data resulted in measured levels of 61 and 66 dB LAeq(15min). But these levels had road traffic noise included. Omitting road noise resulted in a residual level of 50 dB LAeq (15min). In September 2020, recorded levels were 59 dB LAeq(32 mins) and 53 dB LAeq(21 mins). Assuming the noise is steady for the extended monitoring period, 59 and 53 dB LAeq(15 min) are appropriate levels. As highlighted in the reports the noise is not present for the whole of the 9.5 hr working day and hence a duration correction of 5 dB is applicable. T+T considers that the maximum measured noise level of 59 dB LAeq should be used – as identified from the site measurements in Table 3.2 of the noise monitoring report dated 29 October 2020 (attached). This remains in accordance with NZS6802:2008.
Under the detailed method assessment, provided by T+T, the noise level from the bulldozer, received at the 7(2)(a) is 65 dB (rounded to the nearest decibel). This measurement was just over 4 minutes long. They also state that it may operate for 15 minutes continuously. Therefore, the noise level would be 65 dB LAeq(15mins) at 7(2)(a). This is the reference noise level for which time averaging should be applied. Resulting in a noise level of 60 dB LAeq(15mins).
4. After applying the duration adjustment (5 dB) and adjustment for the notional boundary location (2dB) this represents a 2dB exceedance at 7(2)(a)
I acknowledge that the distance would provide a slight drop in noise level. However, I note that the condition is clear that the assessment location is at or within the national boundary of a dwelling.

In terms of the final compaction being assessed as construction noise, it would be useful for the applicant to provide more justification for this. The standard (NZS6803:1999) defines construction work as "any work in connection with any excavation, site preparation, or preparatory work, carried out for the purpose of any construction work". The standard states that it is not intended to apply to ongoing activities from a site, for example, quarrying, landfills.

From our review of the information provided to date, it is clear that the activity is exceeding the noise limits. Therefore, it is important that measures are put in place to reduce noise emissions from the site. We're happy to monitor this over the next few rounds of monitoring should see an improvement, however we do need some more

actions to be detailed that are easily observable on site by compliance officer without the need to engage professional noise monitoring. Suggestions could be smaller machinery, modifications to trucks to dampen noise of tail gate slams, temporary acoustic screens.

Can we either tee up a time to discuss or have some further comments.

thanks,

Parvati

From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Thursday, 3 December 2020 12:57 PM
To: Dave Dews; Dean Bentley; Parvati Rotherham
Cc: Darran Humpheson; Aaron Healy; Steve Arden
Subject: FW: Discussion of September monitoring results

Hi all,

Resending this, as the HCC email system rejected my message with the file attachment (due to the file size). Council already has this monitoring report on file.

Alastair

From: Alastair Meehan
Sent: Thursday, 3 December 2020 12:53 PM
To: 'Steve Arden' <Steve.Arden@marshallday.co.nz>; Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Cc: 'Dave Dews' <Dave.Dews@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

Good afternoon all,

In follow-up to our discussion last week (about the Marshall Day technical review) I note the following:

1. There is agreement between noise experts from both T+T and Marshall Day that the application of a SAC penalty is not necessary given the nature of noise onsite;
2. The Marshall Day review identified that the maximum duration adjustment available under 6802:2008 is 5dB. T+T's noise experts agree with this.
3. The Marshall Day review then suggests that the consent conditions are being exceeded by 10dB (based upon a representative noise level of 65dB LAeq). T+T's noise experts disagree with this point. July 2020 data resulted in measured levels of 61 and 66 dB LAeq(15min). But these levels had road traffic noise included. Omitting road noise resulted in a residual level of 50 dB LAeq (15min). In September 2020, recorded levels were 59 dB LAeq(32 mins) and 53 dB LAeq(21 mins). Assuming the noise is steady for the extended monitoring period, 59 and 53 dB LAeq(15 min) are appropriate levels. As highlighted in the reports the noise is not present for the whole of the 9.5 hr working day and hence a duration correction of 5 dB is applicable. T+T considers that the maximum measured noise level of 59 dB LAeq should be used – as identified from the site measurements in Table 3.2 of the noise monitoring report dated 29 October 2020 (attached). This remains in accordance with NZS6802:2008.
4. After applying the duration adjustment (5 dB) and adjustment for the notional boundary location (2dB) this represents a 2dB exceedance at 7(2)(a)

If we can agree on those points above, then there is broad agreement that compliance with the consent conditions is achieved at all monitoring locations, with the exception of measurement 1 (2.14 – 2.46pm) at 7(2)(a). This is considered a worst-case scenario due to the proximity of the site operations to this property when measurements were undertaken. I understand that the operator has previously discussed noise related matters with the owner of this property and received confirmation he (the owner) was comfortable with the operational noise levels experienced. Notwithstanding this, the consent holder is taking this matter seriously to ensure compliance is achieved moving forwards.

On Monday I had a discussion with Bob and Dave to identify how the consent holder can achieve ongoing compliance with the noise conditions. The following is proposed:

1. Use of the dozer will be limited as far as possible while filling in Phase 8 (near Coast Road) is underway. This mitigation has been in place since the preliminary noise results were made available to the consent holder in October.
2. Where use of the dozer is absolutely necessary (i.e. during wet site conditions or moving heavy loads such as concrete), the operator will conduct site operations to maximise separation distances from nearby sensitive receivers. Anecdotally, the consent holder believes that noise from the bulldozer during wet site conditions will be less than measured due to a reduction in track squeal.
3. Use of the dozer for the compaction of final batters (i.e. at the southernmost extent of the site) will be treated as construction works and will therefore be assessed against the construction noise standards. This will involve notifying the CLG prior to those works commencing.
4. The consent holder will use the next round of noise monitoring (in December) to confirm whether these mitigations achieve compliance with the noise levels specified within the consent conditions.

Thanks all – look forward to a response.

Ngā Mihi | Kind regards,
Alastair Meehan | Planner

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From: Steve Arden <Steve.Ardens@marshallday.co.nz>

Sent: Thursday, 26 November 2020 4:20 PM

To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Subject: RE: Discussion of September monitoring results

Hi Darran,

Thanks for the comments. As I raised the question on the bulldozer, I thought I should respond.

The sound power level of the bulldozer you have reported is consistent with what I would expect with a bulldozer on flat ground (obviously a steeper gradient would make a difference but the site is relatively flat). Based on this, it is unlikely that there are any major maintenance issues which are making it louder. I am aware of a few quieter options such as a Komatsu D41, which would reduce your setback distances, but these are much smaller units so may not do the job.

A tracked loader might be a viable option for traction. I don't recall ever measuring one, so can't be sure on what the sound power level would be.

Regards
Steve

Steve Arden



Level 2, 5 Willeston Street, Wellington, 6011
marshallday.com | T: 04 499 3016 | M: 027 872 2432

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From: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>
Sent: Wednesday, 25 November 2020 4:43 pm
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Steve Arden <Steve.Arden@marshallday.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

Hi
Attached is our initial thoughts / observations which require feedback from the operator especially the dozer comments.

There is still plenty of spatial separation before the site works start to reach the south. We will undertake further assessment work once we have completed the next compliance survey which is due before the holidays. This will help to inform further discussions before works start to elevate existing noise levels at locations other than [REDACTED] (a).

Regards,
Darran

From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, November 25, 2020 9:04 AM
To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Steve.Arden@marshallday.co.nz; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

thanks for the notes Darran. Thanks everyone, for finding ways to work cooperatively on this.

thanks,

Parvati

From: Darran Humpheson [<mailto:DHumpheson@tonkintaylor.co.nz>]
Sent: Tuesday, 24 November 2020 4:43 PM
To: Aaron Healy; Alastair Meehan; Parvati Rotherham; Steve.Arden@marshallday.co.nz; Dean Bentley
Subject: RE: Discussion of September monitoring results

Thanks for the discussion

I can confirm that T+T will issue details on the following ahead of the next community meeting on Thursday.

1. Confirmation on the bulldozer source level used in the RC noise assessment and the equivalent source level identified during the compliance monitoring.
2. Model type for the dozer – noting that looking at some photos it does appear to be reasonably modern.
3. Assessment of likely noise levels as works move closer to the south – including noise at **7(2)(a)** – with and without dozer.
4. Assessment of separation distance required to operate dozer at current tipping face and future tipping areas assuming a summer (frontloader) location and a winter location – this scenario to be confirmed by the site operator.
5. Any further mitigation measures that could be employed for use of the dozer.

Regards,
Darran

From: Aaron Healy <AHealy@tonkintaylor.co.nz>

Sent: Tuesday, November 24, 2020 2:19 PM

To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Steve.Arden@marshallday.co.nz; Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Subject: Discussion of September monitoring results

Afternoon everyone,

Thank-you for the review. We have considered the points raised and are presenting this as a form to lead discussion at the meeting on Tuesday 24th November at 3pm.

The main points of the review as we understand them are summarised in bold. Our proposed points to lead discussion are bullet pointed below. We do not anticipate discussion to be limited by these points.

The condition does not specify a time interval and therefore a 15-min interval shall be used rather than the 9.5-hour interval used.

- The AEE noise assessment considered noise over the 15-hour assessment period. This was based off the Hutt City Council Rule 14 limit of 50 dB LA10 between 7:00am and 10:00 pm. The consent conditions are for between 7:30 am and 5:00 pm. On the same basis as the AEE, the monitoring reports also averaged noise over the assessment period (9.5-hours).

SAC applied to frequent tailgate slamming

- Discussion of the definition of frequent and the frequency at which these occurrences would justify the application of a SAC.
- Agree that tailgate slamming if frequent would require SAC.
- If the tailgate slamming is addressed as a management matter, at what point is an occurrence a breach of the NMP and Consent Condition 15.
- T+T site observations were that tailgate slamming does occur but is managed to a degree in line with the NMP. The vast majority of the trucks clearly show an effort to eliminate or reduce impact of the tailgate swinging back into the truck bed. Their efforts were not always entirely successful. Is there an acceptable amount of noise/occurrences from tailgate impacts or do they need to be managed in a different way i.e. impact dampers on site?

Detailed method: The loudest representative 15 minutes (bulldozer) shall be used to represent the noise.

- We agree this is consistent with the standard.
- Should the bulldozer operate for less time at a further setback distance this may not be the case.
- The daily noise should be assumed from taking the loudest representative 15 minutes and assessing whether this is suitable for a reduction for duration or a penalty for SAC. The duration reduction is the main difference between full day limit and a 15-minute limit. The compliance report considered various scenarios to minimise the noise contribution from the bulldozer.

Averaged noise level exceeds the maximum reduction of 5dB below representative noise level.

- Following review we agree that the total daily noise level for comparison with the conditions cannot be discounted by more than 5 dB from any representative 15 minute period.

- Therefore, if the bulldozer is active for 15 minutes continuously the setback distance must be sufficient that the noise at any receivers does not exceed 55 dB LAeq_{15min}.

Compliance

- The 15-minute periods in the detailed report analysis are based off the maximum expected use. These therefore cannot be relied upon to say conclusively if the cleanfill exceeded limits.
- Measurement 1 at 7(2)(a) measured 59 dB over a 30-minute period. A maximum 5 dB reduction will still exceed the consent condition limits at that location. Therefore the limits at 7(2)(a) were exceeded during the survey.
- The noise assessment predicted a slight exceedance at 7(2)(a)
- The bulldozer may be louder than modelled for the assessment.
- No other assessment locations measured in September exceeded the consent condition's 50 dB limit.

Kind regards - talk shortly,

Aaron

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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He waka eke noa - we're all in this together

T+T is well placed to provide continuity of service as the COVID-19 situation evolves, ensuring the wellbeing of our people, clients, suppliers and communities remains our highest priority.

Please see our website for the latest update, or get in touch if there is anything we can do



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From: Parvati Rotherham
Sent: Tuesday, 13 April 2021 11:21 AM
To: Darran Humpheson; Alastair Meehan
Cc: Paul Duffin; Derek Kerite; Dean Bentley; Steve Arden
Subject: RE: March Noise Monitoring

Thanks Darran. Appreciate the timely response.

Steve – could you please review.

thanks,

Parvati

From: Darran Humpheson [mailto:DHumpheson@tonkintaylor.co.nz]
Sent: Friday, 9 April 2021 4:35 PM
To: Parvati Rotherham; Alastair Meehan
Cc: Paul Duffin; Derek Kerite; Dean Bentley; Steve Arden
Subject: RE: March Noise Monitoring

Hi Parvati,
Please find attached the March 2020 noise monitoring report.
Kind regards,
Darran

Darran Humpheson | Senior Acoustics Specialist

BSc(Hons), MSc, MIOA, MASNZ

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Level 3, PwC Centre, 60 Cashel Street, West End, Christchurch | PO Box 13055 Christchurch, New Zealand

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From: Parvati Rotherham Parvati.Rotherham@huttcity.govt.nz
Sent: Friday, April 9, 2021 2:03 PM
To: Alastair Meehan AMeehan@tonkintaylor.co.nz; Darran Humpheson DHumpheson@tonkintaylor.co.nz
Cc: Paul Duffin Paul.Duffin@huttcity.govt.nz; Derek Kerite Derek.Kerite@huttcity.govt.nz; Dean Bentley Dean.Bentley@huttcity.govt.nz; Steve Arden Steve.Arden@marshallday.co.nz
Subject: March Noise Monitoring

Hi All,

any updates on when we may receive the noise monitoring report? I note that 2 weeks is by the end of today. Due to previous non-compliances with Condition 16 we may consider formal enforcement tools, should the report not be supplied promptly. We have had Easter in between so are happy to allow 2 additional working days in this case. Please supply the report by close of business Tuesday 13th April.

thanks,


Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Wednesday, 31 March 2021 11:34 PM
To: Parvati Rotherham; Darran Humpheson; Steve Arden
Cc: Paul Duffin; Derek Kerite; Dean Bentley
Subject: RE: Discussion of September monitoring results

Hi Parvati,

Will do, monitoring was completed on Friday last week and I expect to have the results back to HCC mid-next week.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 31 March 2021 8:51 PM
To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Steve Arden <Steve.Arden@marshallday.co.nz>
Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Paul Duffin <Paul.Duffin@huttcity.govt.nz>; Derek Kerite <Derek.Kerite@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

Hi all,

I would like to follow up this latest round of monitoring. Has it been completed and when can we expect the results? In the past the results have been slow coming and have not complied with condition 16. Please can we have this report within 2 weeks of the noise monitoring being undertaken.

Kind regards,

Parvati

From: Darran Humpheson [<mailto:DHumpheson@tonkintaylor.co.nz>]
Sent: Tuesday, 23 March 2021 4:11 PM
To: Steve Arden; Parvati Rotherham
Cc: Alastair Meehan; Paul Duffin; Derek Kerite; Dean Bentley
Subject: RE: Discussion of September monitoring results

Hi,
Updated monitoring protocol attached.
Steve we ended up putting a 64Gb card into the equipment – hence it will record audio for the whole duration.
Our intention is to install the equipment tomorrow and to finish Friday pm, with the attended measurements being at the end.
Regards,
Darran

From: Darran Humpheson

Sent: Tuesday, March 23, 2021 9:45 AM

To: 'Steve Arden' <Steve.Arden@marshallday.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>

Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Paul Duffin <Paul.Duffin@huttcity.govt.nz>; Derek Kerite <Derek.Kerite@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Subject: RE: Discussion of September monitoring results

Thanks Steve for the constructive comments.

I can confirm that there will be additional measurements and observations conducted at the neighbouring dwellings as per our previous site visits.

We haven't yet managed to gain access to [7(2)(a)]. We have always measured on the entrance drive then performed an adjustment. Best approach is to be flexible based on site observations when we go – [7(2)(a)] may be more representative if works are in the lower corner of the site – if along the SE then [7(2)] we'll explain in report.

In hindsight we had a relook at the audio triggers yesterday and we've adjusted the thresholds down and extended the pre and post time triggers roughly in line with your comments. The audio memory capacity is not the constraint rather the quantity of data to trawl through!

I'll update the document today and pass round as a final.

Cheers,

Darran

From: Steve Arden <Steve.Arden@marshallday.co.nz>

Sent: Tuesday, March 23, 2021 9:22 AM

To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Darran Humpheson <DHumpheson@tonkintaylor.co.nz>

Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Paul Duffin <Paul.Duffin@huttcity.govt.nz>; Derek Kerite <Derek.Kerite@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Subject: RE: Discussion of September monitoring results

Hi All,

Thanks for preparing this Darran.

I have reviewed this and it seems acceptable. I have a few minor comments to assist with the survey:

- The previous noise surveys have shown noise levels are highest at [7(2)(a)]. The selection of [7(2)(a)] [7(2)(a)], although close to the site, may not be the dwelling that is exposed to the highest noise levels (I appreciate that access may not be possible). However, this should be acknowledged in the reporting, and a judgement on the expected noise levels at [7(2)(a)] made (and other dwelling where applicable). The magnitude of any differences in noise level would depend on where site activities are occurring;
- The CAN only makes reference to the unattended monitoring location. This data should be collected, but be supplemented with short term monitoring at other sites in the area (as carried out during previous noise surveys);
- The duration of the survey is 48 hours. This is acceptable provided that the Cleanfill is operating under normal conditions, and all noise sources are captured (e.g. every type of machinery operational over this time).
- The CAN states "Audio recording will also be set up, triggered to record when the noise level exceeds 45 dB LAeq,1sec for more than one minute". The previous survey shows that even with the cleanfill operating, the noise level frequently drops below 45 dBA. I've included a snip from the last report, and highlighted where this occurs (the measured noise level at this location with LAeq 54 dB). To assist with any post audio analysis, I recommend that either the trigger level is reduced to "40 dB LAeq,1sec for more than one minute", or the trigger time period is reduced to "45 dB LAeq,1sec for more than fifteen seconds". Note that audio recording would only need occur during the operational hours of the cleanfill.

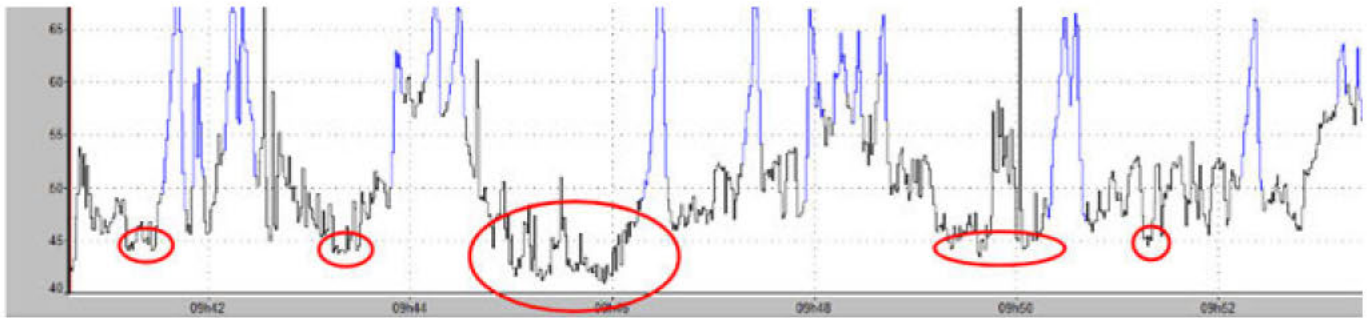


Figure Appendix A.3: 7(2)(a) measurement 1

Hopefully the above is clear. Please let me know if you have any questions, or require further clarification.

Ngā mihi
Steve

Steve Arden



Level 2, 5 Willeston Street, Wellington, 6011
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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Monday, 22 March 2021 9:14 am
To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Steve Arden <Steve.Arden@marshallday.co.nz>
Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Paul Duffin <Paul.Duffin@huttcity.govt.nz>; Derek Kerite <Derek.Kerite@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

Thanks Darran. Alastair/Darran. To close out my email of the 19th of Feb (see attached) please can you provide response. This was expected 7day after that email, I have not heard anything. Closing this out prior to the next CLG will be important to ensure trust is maintained.

Steve – are you able to review the monitoring protocol? Please can you liaise with Paul Duffin, Senior Monitoring and Enforcement Officer about this. If you are able to advise before Wednesday that would be good as the CLG is on Thursday night which Paul and Derek will attend in my absence.

thanks,

Parvati

From: Darran Humpheson [<mailto:DHumpheson@tonkintaylor.co.nz>]
Sent: Friday, 19 March 2021 3:50 PM
To: Steve Arden
Cc: Parvati Rotherham; Alastair Meehan
Subject: RE: Discussion of September monitoring results

Hi Steve

Further to our discussion on Wednesday please find attached our proposed methodology for the next round of compliance monitoring.

As mentioned we have 01dB kit which will give us the detail of activities on site, coupled with audio recording we will be able to establish what is site activity and what isn't.

We would like to go out in the next week subject to weather.

7(2)(a) is the closest location and therefore the most appropriate location for the monitoring. Any feedback at this stage appreciated on the proposal. Happy for any track changes to be made.

Kind regards,
Darran

Darran Humpheson | Senior Acoustics Specialist

BSc(Hons), MSc, MIOA, MASNZ

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From: Steve Arden <Steve.Arden@marshallday.co.nz>

Sent: Thursday, November 26, 2020 4:20 PM

To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Subject: RE: Discussion of September monitoring results

Hi Darran,

Thanks for the comments. As I raised the question on the bulldozer, I thought I should respond.

The sound power level of the bulldozer you have reported is consistent with what I would expect with a bulldozer on flat ground (obviously a steeper gradient would make a difference but the site is relatively flat). Based on this, it is unlikely that there are any major maintenance issues which are making it louder. I am aware of a few quieter options such as a Komatsu D41, which would reduce your setback distances, but these are much smaller units so may not do the job.

A tracked loader might be a viable option for traction. I don't recall ever measuring one, so can't be sure on what the sound power level would be.

Regards
Steve

Steve Arden



Level 2, 5 Willeston Street, Wellington, 6011

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From: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>
Sent: Wednesday, 25 November 2020 4:43 pm
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Steve Arden <Steve.Arden@marshallday.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

Hi
Attached is our initial thoughts / observations which require feedback from the operator especially the dozer comments.

There is still plenty of spatial separation before the site works start to reach the south. We will undertake further assessment work once we have completed the next compliance survey which is due before the holidays. This will help to inform further discussions before works start to elevate existing noise levels at locations other than 7(2)(a)

Regards,
Darran

From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, November 25, 2020 9:04 AM
To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Steve.Arden@marshallday.co.nz; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Discussion of September monitoring results

thanks for the notes Darran. Thanks everyone, for finding ways to work cooperatively on this.

thanks,

Parvati

From: Darran Humpheson [<mailto:DHumpheson@tonkintaylor.co.nz>]
Sent: Tuesday, 24 November 2020 4:43 PM
To: Aaron Healy; Alastair Meehan; Parvati Rotherham; Steve.Arden@marshallday.co.nz; Dean Bentley
Subject: RE: Discussion of September monitoring results

Thanks for the discussion

I can confirm that T+T will issue details on the following ahead of the next community meeting on Thursday.

1. Confirmation on the bulldozer source level used in the RC noise assessment and the equivalent source level identified during the compliance monitoring.
2. Model type for the dozer – noting that looking at some photos it does appear to be reasonably modern.
3. Assessment of likely noise levels as works move closer to the south – including noise at 7(2)(a) – with and without dozer.
4. Assessment of separation distance required to operate dozer at current tipping face and future tipping areas assuming a summer (frontloader) location and a winter location – this scenario to be confirmed by the site operator.
5. Any further mitigation measures that could be employed for use of the dozer.

Regards,
Darran

From: Aaron Healy <AHealy@tonkintaylor.co.nz>
Sent: Tuesday, November 24, 2020 2:19 PM
To: Darran Humpheson <DHumpheson@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Steve.Arden@marshallday.co.nz; Dean Bentley

<Dean.Bentley@huttcity.govt.nz>

Subject: Discussion of September monitoring results

Afternoon everyone,

Thank-you for the review. We have considered the points raised and are presenting this as a form to lead discussion at the meeting on Tuesday 24th November at 3pm.

The main points of the review as we understand them are summarised in bold. Our proposed points to lead discussion are bullet pointed below. We do not anticipate discussion to be limited by these points.

The condition does not specify a time interval and therefore a 15-min interval shall be used rather than the 9.5-hour interval used.

- The AEE noise assessment considered noise over the 15-hour assessment period. This was based off the Hutt City Council Rule 14 limit of 50 dB LA10 between 7:00am and 10:00 pm. The consent conditions are for between 7:30 am and 5:00 pm. On the same basis as the AEE, the monitoring reports also averaged noise over the assessment period (9.5-hours).

SAC applied to frequent tailgate slamming

- Discussion of the definition of frequent and the frequency at which these occurrences would justify the application of a SAC.
- Agree that tailgate slamming if frequent would require SAC.
- If the tailgate slamming is addressed as a management matter, at what point is an occurrence a breach of the NMP and Consent Condition 15.
- T+T site observations were that tailgate slamming does occur but is managed to a degree in line with the NMP. The vast majority of the trucks clearly show an effort to eliminate or reduce impact of the tailgate swinging back into the truck bed. Their efforts were not always entirely successful. Is there an acceptable amount of noise/occurrences from tailgate impacts or do they need to be managed in a different way i.e. impact dampers on site?

Detailed method: The loudest representative 15 minutes (bulldozer) shall be used to represent the noise.

- We agree this is consistent with the standard.
- Should the bulldozer operate for less time at a further setback distance this may not be the case.
- The daily noise should be assumed from taking the loudest representative 15 minutes and assessing whether this is suitable for a reduction for duration or a penalty for SAC. The duration reduction is the main difference between full day limit and a 15-minute limit. The compliance report considered various scenarios to minimise the noise contribution from the bulldozer.

Averaged noise level exceeds the maximum reduction of 5dB below representative noise level.

- Following review we agree that the total daily noise level for comparison with the conditions cannot be discounted by more than 5 dB from any representative 15 minute period.
- Therefore, if the bulldozer is active for 15 minutes continuously the setback distance must be sufficient that the noise at any receivers does not exceed 55 dB LAeq_{15min}.

Compliance

- The 15-minute periods in the detailed report analysis are based off the maximum expected use. These therefore cannot be relied upon to say conclusively if the cleanfill exceeded limits.
- Measurement 1 at (b) (2)(a) measured 59 dB over a 30-minute period. A maximum 5 dB reduction will still exceed the consent condition limits at that location. Therefore the limits at (b) (2)(a) were exceeded during the survey.
- The noise assessment predicted a slight exceedance at (b) (2)(a).
- The bulldozer may be louder than modelled for the assessment.
- No other assessment locations measured in September exceeded the consent condition's 50 dB limit.

Kind regards - talk shortly,

Aaron

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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He waka eke noa - we're all in this together

T+T is well placed to provide continuity of service as the COVID-19 situation evolves. The wellbeing of our people, clients, suppliers and communities remaining our highest priority.

Please see our website for the latest update, or get in touch if there is anything we can do



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From: Parvati Rotherham
Sent: Friday, 6 November 2020 5:24 PM
To: 'Alastair Meehan'
Cc: Enforcement; Dave Dews; notifications@gw.govt.nz
Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Alastair,

thanks, I'm happy with this change.

Have a great weekend.

Parvati

From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Friday, 6 November 2020 12:15 PM
To: Parvati Rotherham
Cc: Enforcement; Dave Dews; notifications@gw.govt.nz
Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Parvati,

Please find attached an updated SMP for the Wainuiomata Cleanfill. Section 1.2 of this document has been updated to record the process for turning away the 76th truck – as requested during the most recent CLG meeting (see footnote 2). No further changes have been made.

Can you please confirm that HCC are comfortable certifying this change?

Max / GWRC – copying you in for completeness. I do not believe this change is of material concern to GWRC but could you please change that this change is “to the satisfaction of the manager” in accordance with Condition 11 of WGN190237.

Thanks all,

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Monday, 17 February 2020 4:59 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>; Caryn Ellis

<Caryn.Ellis@huttcity.govt.nz>

Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Alastair,

Now that GW have certified the Erosion and Sediment Control portions of the Stage 3 SMP, I can confirm that as Team Leader Resource Consents, Hutt City Council, we are now happy to approve this version of the Site Management Plan.

Please note we are still waiting on the Noise Management Plan to be supplied, this is required within 2 months of the approval of the resource consent, which would be this week. Given we've had Christmas holidays, it would be reasonable to allow 2 extra weeks for submission. Please advise when you will be able to supply the updated noise management plan.

Thanks,

Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]

Sent: Monday, 17 February 2020 4:20 PM

To: Parvati Rotherham

Subject: FW: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Parvati,

Per our discussion earlier this morning, just wanting to confirm that HCC remain comfortable with the SMP – as attached to this email. It has now been certified by GWRC.

As I mentioned this morning, no hydrovac material will be accepted to site until such a time that GWRC approve the final location of the drying area.

Ngā Mihi | Kind regards,

[Alastair Meehan | Planner](#)

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From: Max Curnow <Max.Curnow@gw.govt.nz>

Sent: Monday, 17 February 2020 3:57 PM

To: Dave Dews <Dave.Dews@huttcity.govt.nz>; Simon Grundy <SGrundy@tonkintaylor.co.nz>; Ed Breese <EBreese@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Billy Rodenburg <BRodenburg@tonkintaylor.co.nz>

Subject: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi All,

The attached combined Stage 3 Erosion and Sediment Control Plan (ESCP) and Cleanfill Site Management Plan (CMP) for Wainuiomata Cleanfill is approved for WGN190237 [36132, 36134, 36135]. Providing earthworks only occur in

the area designated as Stage 3 as authorised by discharge permits WGN190237 [36132, 36134, 36135]. Please see attached approval memo for area designated as Stage 3.

I understand that the project wants to carry out earthworks in Stage 2 (namely application of hydro-vac). GWRC is still considering its final position in relation to works in the Stage 2 area. Earthworks in the Stage 2 area may be approved as amendments to the final CMP and ESCP. Providing these earthworks are authorised under discharge permits WGN190237 [36132, 36134, 36135] or another valid consent.

Regards,

Max Curnow | Kaitohutohu / Resource Advisor (Compliance), Environmental Regulation
GREATER WELLINGTON REGIONAL COUNCIL

Te Pane Matua Taiao

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From: Parvati Rotherham
Sent: Tuesday, 31 March 2020 4:55 PM
To: 'Alastair Meehan'
Cc: Enforcement; Dave Dews
Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Alastair,

I can now confirm I've had the NMP reviewed by Marshall Day and we've approved the NMP.

Note a NMP should be fluid in that it can be changed/reviewed should better practices come up or there are continual breaches of noise requirements etc.

As discussed the other day, in terms of the noise monitoring that is required by the consent, I will be being flexible with this requirement and not expecting it to be done until a few months after normal operations resume.

Thanks,


Parvati

From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Monday, 2 March 2020 1:36 PM
To: Parvati Rotherham
Cc: Enforcement; Dave Dews
Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Parvati,

As previously discussed, please find attached the draft NMP for HCC review.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Monday, 17 February 2020 4:59 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>; Caryn Ellis <Caryn.Ellis@huttcity.govt.nz>
Subject: RE: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Alastair,

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Please note we are still waiting on the Noise Management Plan to be supplied, this is required within 2 months of the approval of the resource consent, which would be this week. Given we've had Christmas holidays, it would be reasonable to allow 2 extra weeks for submission. Please advise when you will be able to supply the updated noise management plan.

Thanks,

Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Monday, 17 February 2020 4:20 PM
To: Parvati Rotherham
Subject: FW: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi Parvati,

Per our discussion earlier this morning, just wanting to confirm that HCC remain comfortable with the SMP – as attached to this email. It has now been certified by GWRC.

As I mentioned this morning, no hydrovac material will be accepted to site until such a time that GWRC approve the final location of the drying area.

Ngā Mihi | Kind regards,
Alastair Meehan | Planner

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From: Max Curnow <Max.Curnow@gw.govt.nz>
Sent: Monday, 17 February 2020 3:57 PM
To: Dave Dews <Dave.Dews@huttcity.govt.nz>; Simon Grundy <SGrundy@tonkintaylor.co.nz>; Ed Breese <EBreese@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Billy Rodenburg <BRodenburg@tonkintaylor.co.nz>
Subject: Wainuiomata Cleanfill ESCP and CMP approval - WGN190237 [36132, 36134, 36135]

Hi All,

The attached combined Stage 3 Erosion and Sediment Control Plan (ESCP) and Cleanfill Site Management Plan (CMP) for Wainuiomata Cleanfill is approved for WGN190237 [36132, 36134, 36135]. Providing earthworks only occur in the area designated as Stage 3 as authorised by discharge permits WGN190237 [36132, 36134, 36135]. Please see attached approval memo for area designated as Stage 3.

I understand that the project wants to carry out earthworks in Stage 2 (namely application of hydro-vac). GWRC is still considering its final position in relation to works in the Stage 2 area. Earthworks in the Stage 2 area may be

approved as amendments to the final CMP and ESCP. Providing these earthworks are authorised under discharge permits WGN190237 [36132, 36134, 36135] or another valid consent.

Regards,

Max Curnow | Kaitohutohu / Resource Advisor (Compliance), Environmental Regulation
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From: Parvati Rotherham
Sent: Friday, 19 February 2021 11:16 AM
To: Alastair Meehan
Cc: Enforcement
Subject: FW: Wainuiomata Cleanfill - noise monitoring and site audit
Attachments: Mm 05 20190425 SA (Noise Survey - Peer Review).pdf

Hi Alastair,

Please find attached Peer Review by Marshall Day as discussed. We do have some questions about the noise survey which leads to uncertainty about confirming compliance with the consented noise limits. Within the next 7 days please can you provide the following information to assist:

- 1) Commentary on the representativeness of the day's activities during the monitoring period, the variation in the noise results and concerns about the number of measurements undertaken. See "Noise Concerns" on page 3 of the peer-review
- 2) More details about Special Audible Characteristics observed during the monitoring.
- 3) Steps to be undertaken ensure the next round of monitoring is more representative and includes more details about SAC's.
- 4) Any changes to work practices that can be undertaken to ensure that works are clearly complying with the standard in future.

I think a meeting with the expert advisors would be a good idea to cover off these matters. Please confirm availability, if you are agreeable.

Kind regards,

Parvati

From: Steve Arden [mailto:Steve.Arden@marshallday.co.nz]
Sent: Tuesday, 16 February 2021 5:30 PM
To: Parvati Rotherham
Cc: Dean Bentley
Subject: RE: Wainuiomata Cleanfill - noise monitoring and site audit

Hi Parvati,

Please find attached our review of the noise survey.

In summary, we do not think the noise survey captures all activities which occur on the cleanfill site and therefore, insufficient measurements have been carried out to say the Cleanfill complies with the consented noise limit.

Please let me know if you have any comments or questions. Happy to discuss as required.

Steve

Steve Arden

MARSHALL DAY 
Acoustics

Level 2, 5 Willeston Street, Wellington, 6011
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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Thursday, 4 February 2021 1:43 pm
To: Steve Arden <Steve.Arden@marshallday.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: FW: Wainuiomata Cleanfill - noise monitoring and site audit

Hi Steve,

Are you able to assist us again in reviewing the latest monitoring report to ensure the standard has been applied correctly.

Could you give me an ETA on how long you may need for this work?

thanks,

Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Wednesday, 27 January 2021 10:07 AM
To: Parvati Rotherham
Cc: LoveWainuiomata@gmail.com; Wainuiomata Community Board; 7(2)(a) Camp Wainuiomata; 7(2)(a) Gary O'Meara; 7(2)(a) 7(2)(a) Charlie Hopkins; 7(2)(a) Krishna Crowley Nepia; 7(2)(a) Helen Oram
Subject: Wainuiomata Cleanfill - noise monitoring and site audit

Hi Parvati and CLG members,

Please find the most recent noise monitoring report (as discussed during the most recent CLG meeting) attached.

I am currently in the process of confirming available dates for the site walkover associated with the audit. It appears that the auditor is available the week of the 15 – 19th February. Can CLG members please therefore confirm if there are any specific time during this week that are not suitable. I will confirm a date and time before the end of the week.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham
Sent: Thursday, 29 October 2020 8:48 AM
To: Enforcement
Subject: RE: Coast Road Cleanfill noise survey

Hi Paul,

I haven't had the written response. Alastair called me on Tuesday, I reiterated that we should all meet, but they really want to put to us the information in writing. If we don't receive anything by late today, can you follow up.

thanks,

Parvati

From: Paul Duffin **On Behalf Of** Enforcement
Sent: Thursday, 29 October 2020 8:26 AM
To: Parvati Rotherham
Subject: FW: Coast Road Cleanfill noise survey

Have you heard from him?



From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Tuesday, 27 October 2020 9:00 AM
To: Parvati Rotherham; Enforcement; Aaron Healy; Dave Dews
Cc: Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Thanks Parvati, I'm aiming to have a more detailed report outlining the methodology in more detail to you this afternoon. Hopefully that will address the outstanding questions below, but happy to arrange for a call if not.

Will be back in touch shortly.

Alastair

From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Friday, 23 October 2020 5:07 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Enforcement <enforcement@huttcity.govt.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>
Cc: Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

We do have some concerns about the analysis of the noise measurements. Can we set up a time to discuss with you and noise experts (they can be teams/zoomed in). Next Thursday morning would be good.

Our initial comments below and attached.

Thanks,

Parvati

I have attached an aerial photo showing the notional boundary at 7(2)(a)

I query the claim that the measured noise level should be reduced from 59dBA to 57dBA LAeq, due to the measurement location being closer to the cleanfill than the notional boundary. The plan clearly shows it is in line with the notional boundary.

I would like to know about the method of averaging – I did request that they present the report similar to the examples shown in NZS6802:2008, however that does not appear to have been done.

I also question whether there are in fact special audible characteristics, due to the impulsiveness of the truck tailgate slamming. While these are intermittent, the noise certainly appears to be impulsive.

I measured 63dBA LAeq, which is 4dBA above their measurement. By reducing my level by 5dBA due to the duration of noise occurring less than 30% of the prescribed time frame, it still shows a non-compliance, being 8dBA above the RC limit.


From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Wednesday, 21 October 2020 12:40 PM
To: Enforcement; Parvati Rotherham; Aaron Healy; Dave Dews
Cc: Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Paul,

Sorry for the delay, but please find attached the noise monitoring results from September.

Happy to discuss once you've had a chance to review.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Paul Duffin <Paul.Duffin@huttcity.govt.nz> **On Behalf Of** Enforcement
Sent: Tuesday, 20 October 2020 8:16 AM
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Good morning Alastair.

Has the report been finalised yet and if it has can you please send your findings through urgently as it has been some time since you said it wasn't far away?

Paul

From: Parvati Rotherham
Sent: Wednesday, 30 September 2020 3:09 PM
To: Alastair Meehan; Aaron Healy
Cc: Enforcement; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

thanks Alastair - appreciate the prompt update 😊

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Wednesday, 30 September 2020 3:08 PM
To: Parvati Rotherham; Aaron Healy
Cc: Enforcement; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Parvati,

Aiming for the end of this week. Working through the review process now.

Ngā Mihi | Kind regards,
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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 30 September 2020 2:59 PM
To: Aaron Healy <AHealy@tonkintaylor.co.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Aaron and Alastair,

any idea when we might get the noise results from the sampling the other week.

thanks,

Parvati

From: Aaron Healy [<mailto:AHealy@tonkintaylor.co.nz>]
Sent: Thursday, 10 September 2020 1:31 PM
To: Dean Bentley
Cc: Alastair Meehan; Parvati Rotherham; Enforcement
Subject: RE: Coast Road Cleanfill noise survey

Hi Dean,

I'm pleased to hear Wednesday suits, we can communicate at the start of next week around start times and any changes to accommodate weather.

Thanks for the observations, we can discuss the remained of your email on site next week.

Ngā Mihi | Kind regards,

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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From: Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Sent: Thursday, 10 September 2020 12:45 pm

To: Aaron Healy <AHealy@tonkintaylor.co.nz>

Cc: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Enforcement <enforcement@huttcity.govt.nz>

Subject: RE: Coast Road Cleanfill noise survey

Hi Aaron,

Wednesday is good for me.

Location 2 is of most concern, being the closest to the works were occurring when I surveyed.

One point I would like to query is the measurement location in the table below being 6m closer than the notional boundary – I have copied a plan of the site below, showing the measurement location (both mine and the T&T acoustician) in blue, which is actually behind the notional boundary, measured and shown in green. I have drawn the angle of the NB measurement towards where the activity was occurring.

Hopefully the weather is suitable, Wellington suffers from high winds this time of year (more than usual).

Regards

7(2)(a)

From: Aaron Healy [<mailto:AHealy@tonkintaylor.co.nz>]
Sent: Thursday, 10 September 2020 11:10 AM
To: Dean Bentley
Cc: Alastair Meehan
Subject: RE: Coast Road Cleanfill noise survey

Hi Dean,

I'm looking to arrange a time to visit the cleanfill to undertake joint noise measurements.

With the current weather predictions Wednesday next week looks to be the best option, however I expect this may change over the weekend.

Can I get an idea of if there are any specific times or days that do or don't work for you? Morning would be preferable.

I have tried to reach you by cell but must have caught you during appointments. If this is easier to discuss by phone would you be able to call me at a time that suits you? My phone numbers are in my email signature.

As far as the measurement are concerned, I am intending on taking two sets of 15 minute measurements in each of the locations in the previous T+T report (detailed in the table below), with the potential addition of another property to the south at the request of the resident. These measurements will be used to meet the cleanfill's quarterly noise monitoring requirement . After that I intend on taking another measurement over multiple hours at 7(2)(a) I understand this to be the closest residence and where your measurements were taken. The purpose of these measurements is to understand how noise from site operation changes throughout the remainder of the day.

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Location 5	Ngaturi Park	c5 m closer to the site than the notional boundary location

Ngā Mihi | Kind regards,

Aaron Healy | Acoustic Consultant

ME (Acoustic), BE Hons (Mech)

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From: Dean Bentley <Dean.Bentley@huttcity.govt.nz>

Sent: Tuesday, 8 September 2020 1:54 pm

To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Enforcement <enforcement@huttcity.govt.nz>; Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>

Cc: Ed Breese <EBreese@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>

Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

I have appointments at various times, but I will do my best to work around those.

My cell number is 0272311873 for Aaron to contact me on.

Dean Bentley

Environmental Health Team Leader

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand

T 04 570 6666, W www.huttcity.govt.nz



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From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Tuesday, 8 September 2020 1:47 PM
To: Enforcement; Parvati Rotherham; Dave Dews
Cc: Ed Breese; Aaron Healy; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Paul,

Yes, Aaron has booked his flights and will be in Wellington from next week. His preference is to undertake the monitoring early in the week (so that the analysis can be completed ASAP) but that remains somewhat weather dependant. We are keeping an eye on the weather forecasts though and I'll update you again later in the week..

Dean – do you have any specific days / times that are broadly unsuitable? As previously flagged it would be good if we could have a HCC representative there if possible.

Alastair

From: Paul Duffin <Paul.Duffin@huttcity.govt.nz> **On Behalf Of** Enforcement
Sent: Tuesday, 8 September 2020 1:30 PM
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>; Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>
Cc: Ed Breese <EBreese@tonkintaylor.co.nz>; Aaron Healy <AHealy@tonkintaylor.co.nz>; Dean Bentley <Dean.Bentley@huttcity.govt.nz>
Subject: RE: Coast Road Cleanfill noise survey

Hi Alistair.

Any update on when the noise monitoring will be undertaken?

Paul Duffin

Senior Environmental Investigations Officer

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
T , M 027 285 7154, W www.huttcity.govt.nz



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From: Parvati Rotherham
Sent: Friday, 28 August 2020 1:52 PM
To: Alastair Meehan; Dave Dews
Cc: Enforcement; Ed Breese; Aaron Healy; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

thanks for the proposal to arrange for joint testing with HCC and T&T. This noise monitoring should be done when then there is the maximum amount of activity occurring on site to get the worst case scenario.

I've copied in Dean and checked his availability for the week of the 14th he does have some flexibility that we can work around. Let us know once Aaron has booked his flights and some suggested times.

As mentioned below, until this noise monitoring is undertaken please ensure that heavy machinery is used sparingly.

kind regards,

Parvati

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Thursday, 27 August 2020 5:23 PM
To: Parvati Rotherham; Dave Dews
Cc: Enforcement; Ed Breese; Aaron Healy
Subject: RE: Coast Road Cleanfill noise survey

Thanks Parvati and Dean,

I have passed this over to our acousticians for an initial review. Obviously if those measurements are correct, they represent a very different noise profile when compared against previous monitoring (dated July 2020) and the noise modelling work previously undertaken by both Marshall Day (Stages 1 and 2) and T+T (Stage 3).

Based on discussions with our acousticians and the information provided I understand it is difficult to comment on the approach taken by Dean in deriving the LAeq value below. This is due to the number of potential variables (including calibration of equipment, exclusion of background noise, the applicability of the notional boundary and the application of the NZS assessment criteria for intermittent noise generation – such as the operation of the dozer and front-end loader). To resolve this T+T are offering to fly up one of our Christchurch-based acousticians (Aaron Healy) to accompany Dean on a further monitoring visit and ensure that all parties have confidence in the measured noise levels. He would also be available to discuss NZS 6802 with Dean.

Aaron is currently available the week of the 14th September. Please let me know if this date(s) is acceptable to both HCC (as regulator) and to Dean (as the person likely to accompany Aaron).

In the meantime, I will reiterate to the site operator that heavy machinery is to be used sparingly while this work is undertaken. I do however note that this is already the case, with best estimates being that the dozer and/or front-end loader are typically used for no more than 60-90 minutes per day.

Parvati – can you please have a think and let me know whether that represents an agreeable solution from your end? Happy to discuss further or arrange a conference call with all parties if needed.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 26 August 2020 1:59 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>
Subject: FW: Coast Road Cleanfill noise survey

Hi Alastair and Dave,

Due to the compliant we had on Monday, we went out yesterday to undertake some noise readings. The results are attached and the analysis is below.

Please can you get your acoustic specialist to explain and provide any actions you can undertake to ensure compliance with the noise standards within the next 7 days.

thanks,

Parvati

From: Dean Bentley
Sent: Wednesday, 26 August 2020 10:56 AM
To: Parvati Rotherham
Cc: Dipal Dhanani; Skye McConnell; Sarah van Mil; David Tu; Jeremy Peat
Subject: Coast Road Cleanfill noise survey

Hi Parvati,

I took an opportunity to carry out a noise survey yesterday, measured from the same location as T&T's acoustician at 7(2)(a)

I have attached the results of the noise levels for the cleanfill activities and also a residual (ambient noise) from further up Coast Road so as to exclude the cleanfill noise.

The noise level emanating from the cleanfill was **63dB LAeq**, measured over a 30 minute period. I was able to effectively exclude traffic noise.

The residual results indicate that the clean fill noise was not contaminated by the residual sound, and therefore no adjustment to the clean fill noise is required.

- The dozer was operating for the first 5 minutes and a noise level of up to about 62dBA observed.
- The front end loader was then used for the duration of the survey, with a noise level of up to about 59dBA observed.
- Trucks visiting the site produced noise levels of up to 74dBA (tailgate slamming), 51-69dBA (unloading).
- Truck reversing beepers 55dBA.

While these results indicate a breach of the RC condition (50dBA LAeq), I have to advise that I have not previously assessed noise against the 2008 NZ Standard.

I think it is still worthwhile presenting these findings to T&T for their review and feedback, however ultimately, an independent consultant may need to be engaged to peer review my methodology and findings.

Regards

Dean Bentley

Team Leader Environmental Health

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand

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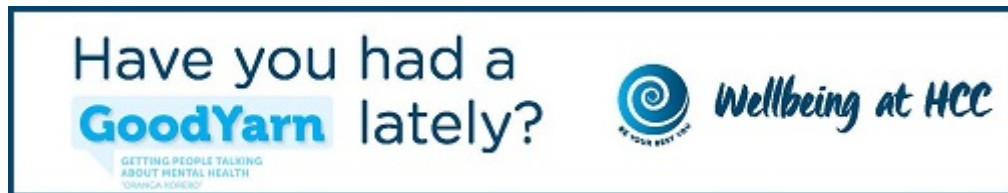
From: Parvati Rotherham
Sent: Monday, 19 October 2020 4:00 PM
To: Enforcement
Subject: RE: Coast Road Cleanfill noise survey

no nothing

From: Paul Duffin **On Behalf Of** Enforcement
Sent: Monday, 19 October 2020 2:56 PM
To: Parvati Rotherham
Subject: RE: Coast Road Cleanfill noise survey

Hi.

Did anything more come in after your e-mail of 30/9?



From: Parvati Rotherham
Sent: Wednesday, 30 September 2020 3:09 PM
To: Alastair Meehan; Aaron Healy
Cc: Enforcement; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

thanks Alastair - appreciate the prompt update 😊

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7(2)(a)



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Cc: Alastair Meehan

Subject: RE: Coast Road Cleanfill noise survey

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Dean Bentley

Environmental Health Team Leader

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Hi Alistair.

Any update on when the noise monitoring will be undertaken?

Paul Duffin

Senior Environmental Investigations Officer

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Sent: Friday, 28 August 2020 1:52 PM
To: Alastair Meehan; Dave Dews
Cc: Enforcement; Ed Breese; Aaron Healy; Dean Bentley
Subject: RE: Coast Road Cleanfill noise survey

Hi Alastair,

thanks for the proposal to arrange for joint testing with HCC and T&T. This noise monitoring should be done when then there is the maximum amount of activity occurring on site to get the worst case scenario.

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Parvati

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Cc: Enforcement; Ed Breese; Aaron Healy
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I have passed this over to our acousticians for an initial review. Obviously if those measurements are correct, they represent a very different noise profile when compared against previous monitoring (dated July 2020) and the noise modelling work previously undertaken by both Marshall Day (Stages 1 and 2) and T+T (Stage 3).

Based on discussions with our acousticians and the information provided I understand it is difficult to comment on the approach taken by Dean in deriving the LAeq value below. This is due to the number of potential variables (including calibration of equipment, exclusion of background noise, the applicability of the notional boundary and the application of the NZS assessment criteria for intermittent noise generation – such as the operation of the dozer and front-end loader). To resolve this T+T are offering to fly up one of our Christchurch-based acousticians (Aaron Healy) to accompany Dean on a further monitoring visit and ensure that all parties have confidence in the measured noise levels. He would also be available to discuss NZS 6802 with Dean.

Aaron is currently available the week of the 14th September. Please let me know if this date(s) is acceptable to both HCC (as regulator) and to Dean (as the person likely to accompany Aaron).

In the meantime, I will reiterate to the site operator that heavy machinery is to be used sparingly while this work is undertaken. I do however note that this is already the case, with best estimates being that the dozer and/or front-end loader are typically used for no more than 60-90 minutes per day.

Parvati – can you please have a think and let me know whether that represents an agreeable solution from your end? Happy to discuss further or arrange a conference call with all parties if needed.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>

Sent: Wednesday, 26 August 2020 1:59 PM

To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>

Cc: Enforcement <enforcement@huttcity.govt.nz>

Subject: FW: Coast Road Cleanfill noise survey

Hi Alastair and Dave,

Due to the compliant we had on Monday, we went out yesterday to undertake some noise readings. The results are attached and the analysis is below.

Please can you get your acoustic specialist to explain and provide any actions you can undertake to ensure compliance with the noise standards within the next 7 days.

thanks,

Parvati

From: Dean Bentley

Sent: Wednesday, 26 August 2020 10:56 AM

To: Parvati Rotherham

Cc: Dipal Dhanani; Skye McConnell; Sarah van Mil; David Tu; Jeremy Peat

Subject: Coast Road Cleanfill noise survey

Hi Parvati,

I took an opportunity to carry out a noise survey yesterday, measured from the same location as T&T's acoustician at 7(2)(a)

I have attached the results of the noise levels for the cleanfill activities and also a residual (ambient noise) from further up Coast Road so as to exclude the cleanfill noise.

The noise level emanating from the cleanfill was **63dB LAeq**, measured over a 30 minute period. I was able to effectively exclude traffic noise.

The residual results indicate that the clean fill noise was not contaminated by the residual sound, and therefore no adjustment to the clean fill noise is required.

- The dozer was operating for the first 5 minutes and a noise level of up to about 62dBA observed.
- The front end loader was then used for the duration of the survey, with a noise level of up to about 59dBA observed.
- Trucks visiting the site produced noise levels of up to 74dBA (tailgate slamming), 51-69dBA (unloading).
- Truck reversing beepers 55dBA.

While these results indicate a breach of the RC condition (50dBA LAeq), I have to advise that I have not previously assessed noise against the 2008 NZ Standard.

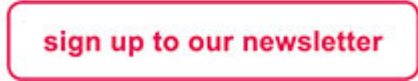
I think it is still worthwhile presenting these findings to T&T for their review and feedback, however ultimately, an independent consultant may need to be engaged to peer review my methodology and findings.

Regards

Dean Bentley

Team Leader Environmental Health

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
T 04 570 6666, W www.huttcity.govt.nz



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From: Paul Duffin
Sent: Friday, 4 December 2020 12:56 PM
To: Dave Dews
Subject: RE: Road sweeping

Cheers

From: Dave Dews
Sent: Friday, 4 December 2020 12:14 PM
To: Paul Duffin
Subject: Re: Road sweeping

Will do

On 4/12/2020, at 12:09, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Hi Dave.

Following on from a conversation we had yesterday can you please pass on to Bob/Scott that they clean Coast Road further towards the Homedale Village if there is any tracking as the complainant alleges that the road has not been cleaned properly on occasions.

Thank you.

From: Dave Dews
Sent: Monday, 7 September 2020 12:03 PM
To: Paul Duffin
Cc: Parvati Rotherham
Subject: Re: Tracking on the road

Leave it with me I will sort this and get back to you
Cheers
Dave

On 7/09/2020, at 11:57, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Hi Dave.

This morning I did a drive by of the site and observed that there is some tracking from the clean fill on to Coast Road. Can you please investigate this and find out a) why it is happening and b) have the road swept again.

Thank you.

From: Paul Duffin
Sent: Monday, 7 September 2020 11:16 AM
To: Paul Duffin
Subject:

Sent from my Samsung Galaxy smartphone.

<20200907_093101_resized_1.jpg>
<20200907_093025_resized_1.jpg>

From: Dave Dews
Sent: Thursday, 28 May 2020 6:10 PM
To: Paul Duffin
Cc: Helen Oram; Parvati Rotherham
Subject: Re: Road sweeper- Coast Road

Hi Paul

If you do notice anything that's not been correctly done on site give me a call straight away, if I don't know I cannot fix it?

Cheers
Dave

On 28/05/2020, at 16:54, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Is it being used all the time?

From: Dave Dews
Sent: Thursday, 28 May 2020 4:53 PM
To: Paul Duffin
Cc: Helen Oram; Parvati Rotherham
Subject: Re: Road sweeper- Coast Road

Hi Paul

This was just installed Tuesday this week, hence the mud on the road, should be good going forward now.

Cheers
Dave

On 28/05/2020, at 16:46, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Thanks Dave.

Can you please confirm that ALL trucks leaving the site are required to use the wheel wash as we have had several complaints about material tracking on to Coast Road as well as dust from trucks.

Thank you.

Paul

From: Helen Oram
Sent: Thursday, 28 May 2020 4:00 PM
To: Dave Dews; Paul Duffin

Cc: Parvati Rotherham
Subject: RE: Road sweeper- Coast Road

Sounds good

From: Dave Dews
Sent: Thursday, 28 May 2020 3:57 PM
To: Paul Duffin
Cc: Parvati Rotherham
Subject: Re: Road sweeper- Coast Road

Hi Paul

We have one on standby and Bob calls it in when required under my instruction, I will need to check how many times it has been called out this week?

We have just installed a brand new fancy wheel wash which we are just fine tuning, most of the mud was while this was being installed should settle down now it is operational.

Any issues let me know?

Cheers
Dave

Dave Dews

Contracts Solid Waste

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
T , **M** 021 686 749, **W** www.huttcity.govt.nz

<image001.jpg>

<image002.jpg>

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On 28/05/2020, at 15:48, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Good afternoon Dave.

Can you please confirm if the road sweeper visits Coast Road on a regular basis and if it does how many times a day/when.

Thanks

From: Parvati Rotherham
Sent: Thursday, 30 January 2020 8:54 AM
To: 'Alastair Meehan'
Cc: Enforcement; Max Curnow
Subject: RE: Wainuiomata Cleanfill - Site Management Plan (SMP) for certification

Hi Alastair,

From a HCC perspective I'm now happy with the SMP. Please note I'm relying on GW advice in regards to erosion and sediment control as they have more expertise in this area.

Look forward to receiving the final version once GW and others have come back to you.

Thanks,

Parvati

From: Alastair Meehan [mailto:AMeehan@tonkintaylor.co.nz]
Sent: Thursday, 30 January 2020 8:50 AM
To: Parvati Rotherham
Cc: Enforcement; Max Curnow
Subject: RE: Wainuiomata Cleanfill - Site Management Plan (SMP) for certification

Thanks Parvati,

I've made the changes requested (see Sections 1.3 and 6.3 of the attached SMP). Hopefully that covers things off?

Copying in Max so GWRC are aware of the iterative changes.

Cheers,
Alastair

From: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Sent: Wednesday, 29 January 2020 5:37 PM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Cc: Enforcement <enforcement@huttcity.govt.nz>
Subject: RE: Wainuiomata Cleanfill - Site Management Plan (SMP) for certification

Hi Alastair,

Thanks for the SMP, the only thing I think we should change is the bit in relation to the independent Audit. Our understanding is that this should be another person. I am in the process of looking for an appropriately qualified person to do this and I will run the names past you and Dave once I've got some ideas. I think in the SMP we should add to the stakeholders this role and for now can be TBC and clarify section on the independent audit accordingly.

RE: Noise Management Plan, I wanted to clarify is there another iteration coming? I want to send it to Marshall Day to review, but don't want to do it yet if there is another version coming.

No need to meet on site tomorrow.

Cheers,

From: Alastair Meehan [<mailto:AMeehan@tonkintaylor.co.nz>]
Sent: Tuesday, 28 January 2020 4:31 PM
To: Enforcement; Max Curnow; Parvati Rotherham; Andrea Blackshaw; Caryn Ellis; Dave Dews
Cc: Ed Breese; bob.dimac@xtra.co.nz; Billy Rodenburg; Simon Grundy
Subject: Wainuiomata Cleanfill - Site Management Plan (SMP) for certification

Good afternoon all,

In accordance with Condition 4 and 6 of RM190050 and Conditions 11 and 18 of WGN190237 I have attached a Site Management Plan (SMP) and ESCP for the certification of both HCC and GWRC in their respective roles as the regulators.

This SMP has been informed by feedback from members of a Community Liaison Group (CLG) consisting of local residents and other interested parties, as well as preliminary feedback from both HCC and GWRC. I have attached a summary of the feedback provided by members of the CLG, and am happy to provide a full record of that feedback if required.

I have retained the track-changes in the SMP document so that you can easily view the changes made. Upon receiving confirmation of certification from GWRC and HCC I intend to accept all changes, incorporate the appendices into a single document and provide a single PDF to both HCC and GWRC for your files. I trust that this satisfies the needs of both councils.

The documents attached include:

1. A Site Management Plan
2. A draft Noise Management Plan (as requested by HCC – this will be certified separately in accordance with Condition 15 of RM190050)
3. An updated site plan showing the ESCs (as requested by GWRC)
4. A draft Site Remediation Plan for Stage 1 & 2 – the final Remediation Plan will be certified under Condition 23 of RM190050 and Condition 14 of WGN190237 however this demonstrates the approach currently expected to be rolled over to Stage 3 (i.e. native planting)
5. A summary of the feedback received from the CLG, HCC and GWRC
6. A *Cleanfill Disposal Application Form* template (to be attached to the certified SMP as Appendix B)

We hope to have the SMP certified by Monday 3rd February in support of the site re-opening on Tuesday 4th February and would appreciate if you could make every effort to meet this timeframe. To assist with this we have blocked out time this Thursday morning (30th Jan) to attend site with you and answer any questions, should either HCC or GWRC have any questions about the procedures outlined in the SMP. Please let me know if you would like to take us up on this offer.

In the efforts of full disclosure, I will also be providing an update to members of the CLG tomorrow morning. This will inform them of the changes made to the document in light of their comments and inform them that we have provided to both councils for certification.

Very happy to discuss. DDI and cell number is below.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Paul Duffin <Paul.Duffin@huttcity.govt.nz> **On Behalf Of** Enforcement
Sent: Thursday, 23 January 2020 11:01 AM
To: Alastair Meehan <AMeehan@tonkintaylor.co.nz>; Dave Dews <Dave.Dews@huttcity.govt.nz>; Ed Breese <EBreese@tonkintaylor.co.nz>; Simon Grundy <SGrundy@tonkintaylor.co.nz>
Cc: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Subject: FW: Draft SMP for Stage 3 - for initial review
Importance: High

Hi Alistair/Dave/Ed/Simon

Parvati and I have had a look at the documentation submitted to us last year and have a few concerns/corrections that need to be addressed before we can progress any further. Parvati has very kindly marked on the document items that need looking at/altering/addressing as well as commented about the plans not showing the location of the hydrovac area.

Can you please look at the document again and correct where marked as well as ensuring that dates you have put in for items to be addressed match exactly the RC conditions.

Also- I know that Max Curnow from GW replied to an e-mail sent to him regarding complying with the GW conditions as he has some concerns/needs clarification of some items. Have these been addressed yet?

Paul

Paul Duffin

Senior RMA Monitoring and Enforcement Officer

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
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From: Parvati Rotherham
Sent: Monday, 23 December 2019 9:12 AM
To: Enforcement
Subject: RE: Draft SMP for Stage 3 - for initial review
Importance: High

Hi Paul,

I've had an initial look at this and put some comments for them. I would also expect them to show on the plans the location of the hydrovac area.

We can't approve this until evidence has been given that they have proven that they have given a draft to the CLG and submitters.

In the meanwhile we can coordinate with GW and return our comments. Can you please review as well and coordinate this.

I'll send Dave a reminder email about community consultation.

Thanks,

Parvati

From: Parvati Rotherham
Sent: Friday, 20 December 2019 2:30 PM
To: Enforcement
Subject: FW: Draft SMP for Stage 3 - for initial review

Hi Paul,

Fir review in conjunction with GW.

Thanks

P

Sent from my Samsung Galaxy smartphone.

----- Original message -----

From: Dave Dews <Dave.Dews@huttcity.govt.nz>
Date: 20/12/19 2:12 PM (GMT+12:00)
To: Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Cc: Caryn Ellis <Caryn.Ellis@huttcity.govt.nz>, Andrea Blackshaw <Andrea.Blackshaw@huttcity.govt.nz>
Subject: Draft SMP for Stage 3 - for initial review

Hi Parvati

Please see attached Draft SMP for Wainuiomata Cleanfill for approval by HCC, any changes or amendments please let me know?

Kind Regards
Dave

Begin forwarded message:

From: Alastair Meehan <AMeehan@tonkintaylor.co.nz>

Date: 20 December 2019 at 12:29:16 NZDT

To: Dave Dews <Dave.Dews@huttcity.govt.nz>, 7(2)(a)

[REDACTED], Ed Breese <EBreese@tonkintaylor.co.nz>, Simon Grundy <SGrundy@tonkintaylor.co.nz>, Billy Rodenburg <BRodenburg@tonkintaylor.co.nz>

Subject: Draft SMP for Stage 3 - for initial review

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From: Parvati Rotherham
Sent: Friday, 20 November 2020 7:29 PM
To: Alastair Meehan
Subject: RE: Wainuiomata Cleanfill - Draft minutes from CLG meeting #5 (15 October 2020) for review

Hi Alastair,

Sorry I missed your call today.

I've finally recieved the report back from Marshall Day and reviewed it briefly. We do have concerns about the way the standard has been applied and concerns about whether compliance is being achieved at 7(2)(a)

I'll need to discuss the technical details on Monday with Marshal Day and Dean.

However, I would also recommend we meet up to discuss the results with your expert's next week before CLG.

I'll provide you a copy of the report before any meeting once I've discussed it with my team.

Thanks

Parvati

Sent from my Galaxy

----- Original message -----

From: Alastair Meehan <AMeehan@tonkintaylor.co.nz>

Date: 20/11/20 4:44 PM (GMT+12:00)

To: 7(2)(a)

LoveWainuiomata@gmail.com, Wainuiomata Community Board

<WainuiomataCommunityBoard@huttcity.govt.nz>, 7(2)(a), Camp

Wainuiomata <campwainui@xtra.co.nz>, 7(2)(a)

Gary O'Meara <Gary.O'Meara@wellingtonwater.co.nz>, 7(2)(a)

Allison Burdon

<principal@wainuiomata.school.nz>, Dave Dews <Dave.Dews@huttcity.govt.nz>,

max.curnow@gw.govt.nz, Keri Brown <Keri.Brown@huttcity.govt.nz>, Gabriel Tupou

<Gabriel.Tupou@huttcity.govt.nz>, 7(2)(a)

, Krisna Crowley Nepia

<Krisna.CrowleyNepia@huttcity.govt.nz>, 7(2)(a) Helen Oram
<Helen.Oram@huttcity.govt.nz>, Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Subject: RE: Wainuiomata Cleanfill - Draft minutes from CLG meeting #5 (15 October 2020) for review

Good afternoon everyone,

I hope that all is well and you're having an opportunity to wind down as we approach the Christmas break.

I am emailing to follow up on three actions specified within the minutes below.

1. I haven't received any feedback on the draft minutes provided on the 29th October. If I don't receive any further communications by COB next Thursday (26th November) I'll assume that everyone is happy and finalise the minutes for upload to HCC's webpage.
2. Please find attached the evidence that the Noise Management Plan (NMP) was reviewed by an appropriately qualified person. This was requested during our last CLG meeting.
3. Please also find attached an updated Site Management Plan (SMP) detailing the process for turning away the "76th truck". Section 1.2 of this document has been updated (see footnote 2) with no further changes made. Again, this was requested at the last CLG meeting and I'm keen to confirm that this change is what the CLG was anticipating.

Have a great weekend. Looking forward to seeing many of you next Thursday.

Ngā Mihi | Kind regards,
[Alastair Meehan | Planner](#)

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From: Alastair Meehan <AMeehan@tonkintaylor.co.nz>
Sent: Thursday, 29 October 2020 5:51 PM
To: 7(2)(a) LoveWainuiomata@gmail.com;
Wainuiomata Community Board <WainuiomataCommunityBoard@huttcity.govt.nz>; 7(2)(a)
Camp Wainuiomata <campwainui@xtra.co.nz>; 7(2)(a)
Gary O'Meara <Gary.O'Meara@wellingtonwater.co.nz>; 7(2)(a)
Allison Burdon <principal@wainuiomata.school.nz>; Dave Dews
<Dave.Dews@huttcity.govt.nz>; max.curnow@gw.govt.nz; Keri Brown <Keri.Brown@huttcity.govt.nz>; Gabriel
Tupou <Gabriel.Tupou@huttcity.govt.nz>; 7(2)(a)
Krisna Crowley Nepia
<Krisna.CrowleyNepia@huttcity.govt.nz>; 7(2)(a) Helen Oram <Helen.Oram@huttcity.govt.nz>;
Parvati Rotherham <Parvati.Rotherham@huttcity.govt.nz>
Subject: Wainuiomata Cleanfill - Draft minutes from CLG meeting #5 (15 October 2020) for review

Good evening all, I hope you are keeping well and my apologies for the delay in getting this email out to you.

Please find attached two documents for review:

1. The updated minutes from the September CLG meeting (following feedback from CLG members); and
2. The draft minutes from the October CLG meeting.

I believe the September minutes should now incorporate the feedback previously received. I will arrange for these to be uploaded to the cleanfill portal on the HCC website.

I'll await feedback from CLG members on the October minutes before finalising. Happy to discuss if anyone has comments or questions.

Ngā Mihi | Kind regards,
[Alastair Meehan](#) | [Planner](#)

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From: Dave Dews
Sent: Tuesday, 12 May 2020 4:55 PM
To: Paul Duffin
Cc: Parvati Rotherham; Pieter Mans; Max Curnow (max.curnow@gw.govt.nz)
Subject: Re: Material on Coast Road 12/5

Hi Paul

This looks like hardfill material which has come off a loaded truck near the built up area which is no where near the Cleanfill site, I have checked with the operators at the Cleanfill they had nothing come into the site around this time, it looks as though the back door has opened slightly on a truck, which could have been going anywhere?

We cleaned it up through HCC but has nothing to do with the Cleanfill site?

The Cleanfill by association has been falsely blamed for this spillage.

Kind Regards
Dave

Dave Dews
Contracts Solid Waste

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
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On 12/05/2020, at 16:25, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Hi Dave.

I've been asked to follow up the spill that happened today. Can I please have a detailed explanation of what happened, when and why it happened. Photos would be appreciated as well.

Thanks
Paul...

Max.

Did receive any complaint about material on the road today?

Paul

Paul Duffin

Senior RMA Monitoring and Enforcement Officer

Hutt City Council, 30 Laings Road, Private Bag 31912, Lower Hutt 5040, New Zealand
T , M 027 285 7154, W www.huttcity.govt.nz

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[<12959GettingUsThroughESIGv1_d1aa4833-de6d-44ad-8c21-5600592d2ceb.jpg>](#)

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From: Paul Duffin
Sent: Wednesday, 31 March 2021 11:24 AM
To: Dave Dews
Cc: Parvati Rotherham; Dean Bentley
Subject: RE: Noise from cleanfill

Hi Dave.

Did you get to the bottom of this at all as it would be good to be able to update the complainant?

Thanks

From: Paul Duffin
Sent: Thursday, 25 March 2021 9:36 AM
To: Dave Dews
Cc: Parvati Rotherham; Dean Bentley
Subject: Noise from cleanfill

Hi Dave.

I had a complaint come in this morning regarding a "large clanging sound" coming from the cleanfill at 0737 hours this morning. Can you check with Bob/Scott to see what it could have been and come back to me.

Thanks

From: Dave Dews
Sent: Monday, 24 August 2020 1:27 PM
To: Paul Duffin
Cc: Alastair Meehan; Toni Stevens
Subject: Re: Noise from machinery

Hi Paul
Sounds good

Cheers
Dave

Dave Dews
Contracts Solid Waste

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On 24/08/2020, at 13:23, Paul Duffin <Paul.Duffin@huttcity.govt.nz> wrote:

Hi Dave.

I had a complaint come in today in regard to noise from the machinery operating at the cleanfill. I called Bob and he advised that they currently have 2 diggers and a dozer operating, this equipment moving a pile of dirt around. I asked Dean Bentley if noise monitoring could be undertaken but he said it's too windy today.

Now that we know what has been operating today once the wind dies down and Dean or one of his colleagues can attend the site can the same equipment be used so that noise readings can be done.

Thanks.

Paul

Hutt City Council
Private Bag 31-912
Lower Hutt 5040

Attention: Team Leader, Resource Consents

Dear Hutt City Council – Enforcement (c/- Parvati Rotherham)

Noise monitoring results - September 2020

1 Introduction

This letter report presents the results of recent noise monitoring conducted at Wainuiomata Cleanfill on 16 September 2020. Monitoring is undertaken on a 3-monthly basis to fulfil Condition 16 of Resource Consent RM190050. Noise limits for the cleanfill are contained in Condition 12 and reproduced below:

- a Monday to Friday (excluding public holidays) 7.30 am to 5.00 pm – 50 dB LAeq
- b Saturday (excluding public holidays) 7.30 am to 12.00 pm – 50 dB LAeq
- c All other times - 40 dB LAeq
- d 10.00 pm to 7.00 am (all days) – 75 dB LAfmax.

These noise limits apply at the notional boundary of nearby receivers. The relevant noise limit is the time averaged sound level for the operating period, i.e. 9.5 hours on weekdays and 4.5 hours on Saturdays. **Averaged according to what ? The prescribed time period is actually 15 hours 7-10? 15minute Leq all that is required?**

This is the second round of noise monitoring undertaken for this resource consent.

2 Survey

The noise monitoring was undertaken on Wednesday 16 September over the course of a day. Measurements were taken at four different locations, with longer duration measurements at locations most exposed to noise from the cleanfill. Measurements were a minimum of 15 minutes in accordance with NZS 6801:2008.

Figure 2.1 shows the monitoring locations in relation to the cleanfill site and surrounding area.

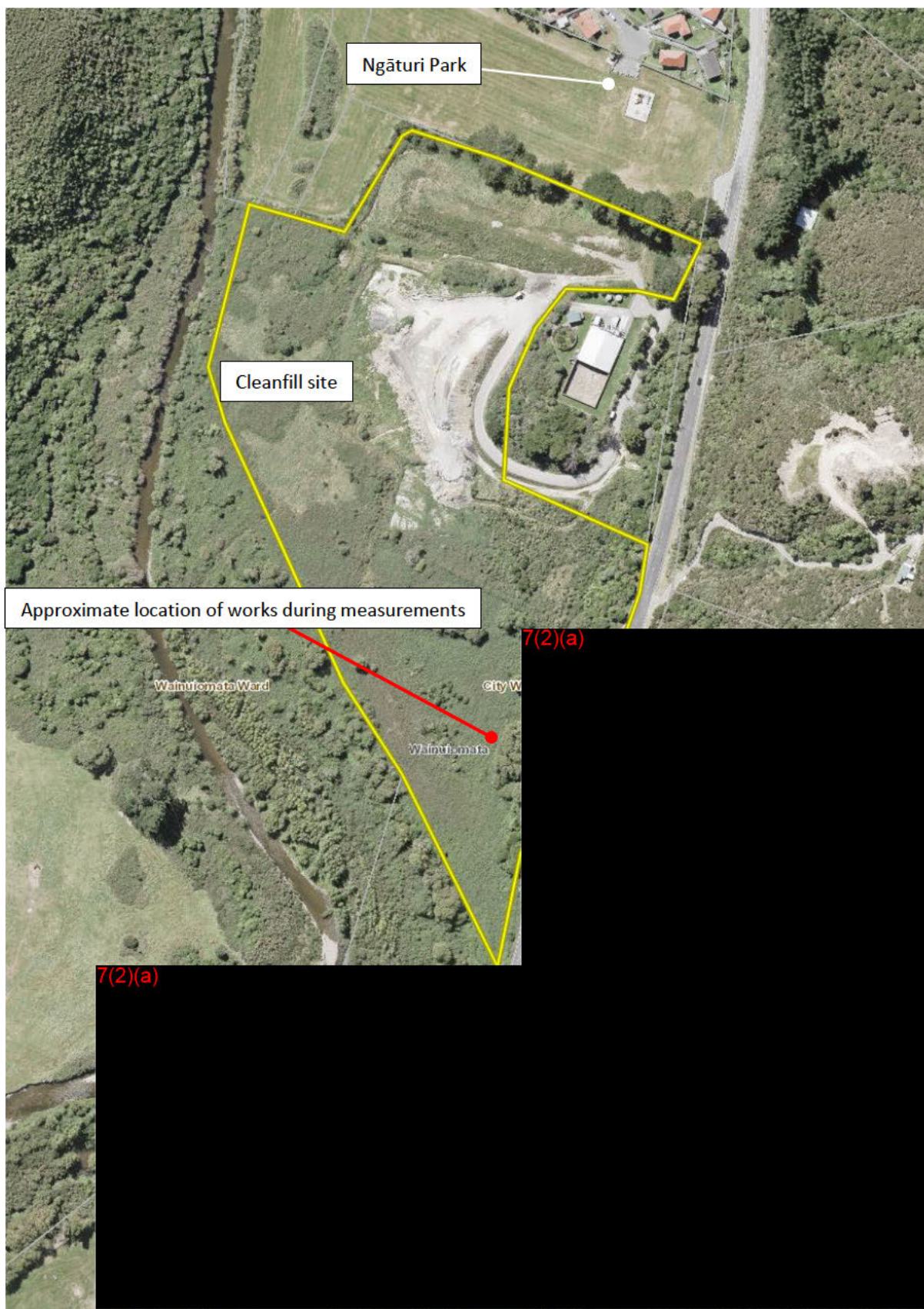


Figure 2.1: Noise monitoring locations

It was established prior to the survey that the site was operating in normal conditions during that week. Site personnel were not aware in advance of the day of the noise monitoring. While measuring, site personnel became aware of the noise monitoring; this is hard to avoid with monitoring locations nearby and within line-of-site of the cleanfill. Site personnel were contacted to ensure operations remained typical, that the bulldozer (anecdotally identified as the loudest piece of plant) remained in use, and trucks dumping clean fill on site were not aware of the noise monitoring. From observations, the operation of equipment did not appear to change once the cleanfill became aware of monitoring.

2.1 Meteorological conditions

Meteorological conditions during the survey are shown in Table 2.1.

Table 2.1: Meteorological conditions during survey

Wind speed	Gusty north-westerly breezes around 30 km/h. Observed to be highly variable throughout the day on site.
Cloud cover	None
Temperature	Up to 16 °C
Precipitation	None

2.2 Monitoring equipment

A 01dB Fusion Type 1 sound level meter was used for the noise survey, serial number 19-0865. It was calibrated before and after measurements and no drift was observed between the calibrations. Measurements were undertaken at 1.5 m above ground level. All measurements were performed in accordance with NZS 6801:2008.

The survey was undertaken by Aaron Healy, acoustic consultant.

2.3 Monitoring locations

Noise monitoring locations are shown in Figure 2.1 and listed in Table 2.2. Photos from the locations of monitoring are attached at Appendix A.

Condition 12 states that the noise limit applies at the notional boundary. For some of the monitoring locations it was not possible to monitor at the notional boundary which is a line 20 metres from any side of any dwelling or the legal boundary where this is closer than 20 metres.

As Ngāturi Park is not a residential receiver, the notional boundary location does not apply.

Measurements at 7(2)(a) were taken approximately 6 m closer to the cleanfill than the notional boundary. At this property the edge of the notional boundary is on a steep slope covered with vegetation to the point that it is not reasonably accessible. The nearest amenity area to the cleanfill within the notional boundary is approximately 6 m further from cleanfill operations than the measurement location. It was not possible to tell if 7(2)(a) has line of sight from within the amenity area; it is assumed their view is slightly obstructed by light foliage. The distance and obstruction would each have a small contribution to noise reduction, although the noise within amenity areas is not expected to be more than a few decibels less than that measured at the nearer location. **Disagree, see site plan - measurement location is in line with 20m notional boundary**

At 7(2)(a) and 7(2)(a) the measurements were taken further from the cleanfill than the edge of the notional boundary in order to ensure line of sight within the relevant amenity area. Measurements at these two locations will differ little between the measurement point and the

notional boundary location. At the distances from the cleanfill (approximately 250 m and 200 m respectively) a variation of a couple of metres would not make a measurable difference to measurements; the presence of line of sight to the operations is significantly more impactful.

Table 2.2: List of noise monitoring locations

Monitoring location	Description	Comment
Ngāturi Park	Near the playground of Ngāturi Park	An indicative location near the playground and houses. Closer to the cleanfill than the notional boundary of any houses north of the park.
7(2)(a)	Entrance to 7(2)(a)	7(2)(a)
7(2)(a)	Within property of 7(2)(a)	
7(2)(a)	Within property of 7(2)(a)	

2.4 Site activity

The day observed on site was advised afterwards to be a day of heavy use with 69 truck movements on site. The maximum permitted number of truck movements on site is 75. Use of the bulldozer and front-end loader was also observed and measured at various times across the day. The only other equipment was a site ute, which made a negligible contribution to the noise from the cleanfill.

Non-cleanfill related sounds will be broken down later based on observations at each location. The most significant non-cleanfill noise was from vehicles on Coast Road. On occasion residential or rural sounds, such as music from properties, dogs, and geese contributed to the sound environment. Effort was made to remove noise contributions from all non-cleanfill related sources from the averaged measurements. Wind was significant on the day of measurement however the rustling of trees did not appear to have a notable influence on the LAeq sound levels at any locations. The moderate north-westerly wind was considered typical for the location during spring.

3 Results

The following definitions in Table 3.1 may be useful for interpreting the results of the noise level monitoring completed at Wainuiomata Cleanfill.

Table 3.1: Glossary of terms

Term	Definition
dB	Decibel - a unit of measurement on a logarithmic scale which describes the magnitude of sound pressure with respect to a reference value (20 µPa).
LAeq(t)	The A-weighted time-average sound level over a period of time (t), measured in units of decibels (dB).
LAm _{ax}	The maximum A-weighted sound pressure level over a period of time or of a particular noise event, measured in units of decibels (dB).

L_{A90}	The A-weighted 90 th percentile sound level over a period of time (t), measured in units of decibels (dB). The L_{A90} is indicative of the underlying noise level. For a constant noise source, the $L_{Aeq(t)}$ and the L_{A90} will be similar.
L_{A10}	The maximum A-weighted 10 th percentile level over a period of time or of a particular noise event, measured in units of decibels (dB).
Residual noise	The ambient sound remaining when noise from a specific source or sources is suppressed.

Noise monitoring data are presented in Table 3.2. Plots of the results from this monitoring period are attached in Appendix B.

Table 3.2: Noise monitoring data

Measurement	Time	$L_{Aeq(t)}$	L_{Amax}	L_{A90}	L_{A10}	Cleanfill equipment operating & other sources of sound heard at measurement location
Ngāturi Park Measurement 1	1:45 – 1:59	49	58	42	51	Trucks observed on site but not audible. Ambient noise included music from nearby houses, hammering from home construction, aircraft noise and road noise. Background noise has not been excluded.
7(2)(a) Measurement 1	2:14 – 2:46	59	70	42	64	Trucks moving about the site and tipping fill as well as use of the bulldozer and front-end loader. Noise from traffic passing was excluded from noise data. No other noise was notable.
7(2)(a) Measurement 2	4:01 – 4:22	53	75	41	55	All site work noise is from trucks moving around and dumping fill. All notable other noise is from traffic and has been excluded from presented data.
7(2)(a) Measurement 1	3:04 – 3:23	49	65	45	50	All noise on site from truck movement and tipping. All notable other noise is from traffic and geese and has been excluded from presented data.
7(2)(a) measurement 2	4:27 – 4:42	54	67	46	57	No cleanfill operations occurred during this measurement – site was inactive. Local noise environment dominated by road traffic noise.
7(2)(a) Measurement 1	11:41 – 11:56	48	67	45	50	Regular cleanfill activity, including trucks dumping and use of either front-end loader or bulldozer. All notable other noise is from traffic and has been excluded from presented data. Background noise level controlled by birds and rustling of bushes in times when other more dominant sounds were not present.
7(2)(a) Measurement 2	3:37 – 3:49	48	63	45	49	Trucks operational on site, front-end loader and dozer were not operating.

4 Results and discussion

4.1 Summary of noise monitoring results

The measured data presented in Table 3.2 has been analysed taking into account the assessment procedures of NZS 6802:2008, which requires adjustments to be made for the duration of the noise, the applicability of any Special Audible Characteristic and the influence of the residual noise level.

The estimated noise levels from cleanfill deposition activities, as measured in accordance with NZS 6801:2008 and assessed in accordance with NZS 6802:2008, are presented in Table 4.1.

Table 4.1: Analysed measurement data

Measurement	Time	LAeq noise level post-NZS6802 adjustments
Ngāturi Park Measurement 1	1:45 – 1:59	44
7(2)(a) Measurement 1	2:14 – 2:46	52
Measurement 2	4:01 – 4:22	48
Measurement 1	3:04 – 3:23	44
measurement 2	4:27 – 4:42	N/A ¹
Measurement 1	11:41 – 11:56	43
Measurement 2	3:37 – 3:49	43

1 – no site activity

A discussion of each monitoring location is provided below.

4.2 Results at Ngaturi Park

The analysed LAeq values at Ngāturi Park complied with the 50 dB LAeq noise limit in the resource consent (#RM190050).

4.3 Results at 7(2)(a)

Measurements outside the driveway gate of 7(2)(a) resulted in noise levels greater than 50 dB LAeq by 9 dB in measurement 1 and 3 dB in measurement 2. These measurements were taken closer to the cleanfill than the edge of the notional boundary where the noise limit applies. This was due to the notional boundary lying on steep terrain with heavy foliage cover and not being able to gain access to the property.

Disagree re notional boundary

At 7(2)(a) the nearest amenity area would be the most suitable location to assess noise compliance and would be approximately 6 m further from the cleanfill works than the measurement location. It is expected that this location would have line of sight to the works, however it may be partially obstructed by trees. Accounting for the increased distance and potential of slight shielding it is likely that measurement 2 at 53 dB would be below 50 dB at the edge of the amenity area, however measurement 1 (59 dB) would be above 50 dB at that location on the basis of the 30-minute measurement. It is estimated that within the main amenity area of 7(2)(a) the noise level would be ~57 dB LAeq.

No, 59dBA is the level measured and in line with the notional boundary

Measurement 1 at 7(2)(a) captured use of all equipment concurrently (operation of front-end loader, dozer and three truck and trailer units). This measurement is considered to present a worst case 30-minute period of activity. As noted, the measurement day was particularly busy with a total of 69 truck movements at the site. Even though the day was noted to be busy, there were

I measured 63dBA while activity was continuous

observed periods throughout the day when there was little to no activity. This variation is typical of day to day operations.

The resource consent requires noise to be assessed using NZS 6802, which requires the application of a +5 dB penalty if the noise in question exhibits any special audible characteristics (SAC) and the noise to be corrected for duration and residual noise. **Tailgate clang appeared impulsive**

During the survey, it was considered that a SAC correction was unwarranted, and this observation applies at all monitoring locations. It is estimated that the noise is present for 30% of the operating day (9½ hours), which would equate to a 5 dB duration correction as required by NZS 6802. Hence the resulting sound level is 52 dB LAeq at 7(2)(a) during measurement 1, which is just above 50 dB and comparable to the noise level predicted in the acoustic assessment which accompanied the resource consent application. Measurement 2 returns a sound level of 48 dB.

The analysed LAeq values at 7(2)(a) complied with the 50 dB LAeq noise limit in the resource consent (#RM190050) during measurement 2 and exceeded these limits by 2 dB during measurement 1. Recommendations have been made to further control noise from the site by reducing operation of the bulldozer and using the front-end loader wherever practicable. This is expected to reduce noise levels by approximately 2 dB and if practicable, measurements will be undertaken within the notional boundary of 7(2)(a) to confirm the assumptions made in this report.

4.4 Results at 7(2)(a)

Measurement 1 recorded noise levels below 50 dB LAeq.

Measurement 2 recorded noise levels above 50 dB LAeq. This is the result of non-cleanfill related noise, primarily reflecting traffic noise as people return from work and school. No operations occurred on the cleanfill during the measurement period which resulted in noise exceeding 50 dB LAeq.

The analysed LAeq values at 7(2)(a) complied with the 50 dB LAeq noise limit in the resource consent (#RM190050).

4.5 Results at 7(2)(a)

The analysed LAeq values at 7(2)(a) complied with the 50 dB LAeq noise limit in the resource consent (#RM190050).

4.6 Summary

The estimated noise levels from cleanfill deposition activities are identified in **Sections 4.1 – 4.5** above.

Traffic noise made a significant difference on the measured LAeq values at all locations. Failing to remove the traffic noise would have increased the recorded LAeq values by 3 dB in the first measurements at 7(2)(a) and 7(2)(a), and by 10 dB in the second measurement at 7(2)(a). It was clear that towards the end of the work-day commuter traffic increased, as did the influence of road traffic noise. This noise contribution was removed in these measurements. It is recommended to avoid monitoring later than 4 pm if possible in future measurements.

4.7 Comparison to previous measurements

Compared to the results of the July monitoring, analysed site noise levels are greater due to the closer proximity of plant and vehicles to the southern and eastern boundaries of the site and the more intense activity on site.

The SLM used during this survey enabled residual noise to be removed from the analysis such that the presented noise levels in section 4 above are predominantly site noise alone.

At 7(2)(a) noise levels from the site were approximately 4 dB higher during the most recent noise survey and at 7(2)(a) a similar noise level difference was recorded compared to the July survey.

At all locations other than 7(2)(a) measured noise levels were below the consent condition noise limits.

5 Applicability

This report has been prepared for the exclusive use of our client Hutt City Council, with respect to the particular brief given to us and it may not be relied upon in other contexts or for any other purpose, or by any person other than our client, without our prior written agreement.

We understand and agree that this report will be used by Hutt City Council in undertaking its regulatory functions in connection with Wainuiomata Cleanfill site.

Tonkin & Taylor Ltd

Environmental and Engineering Consultants

Report prepared by:



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Ed Breese
Project Director

Technically reviewed by:



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Senior Acoustics Specialist

LL

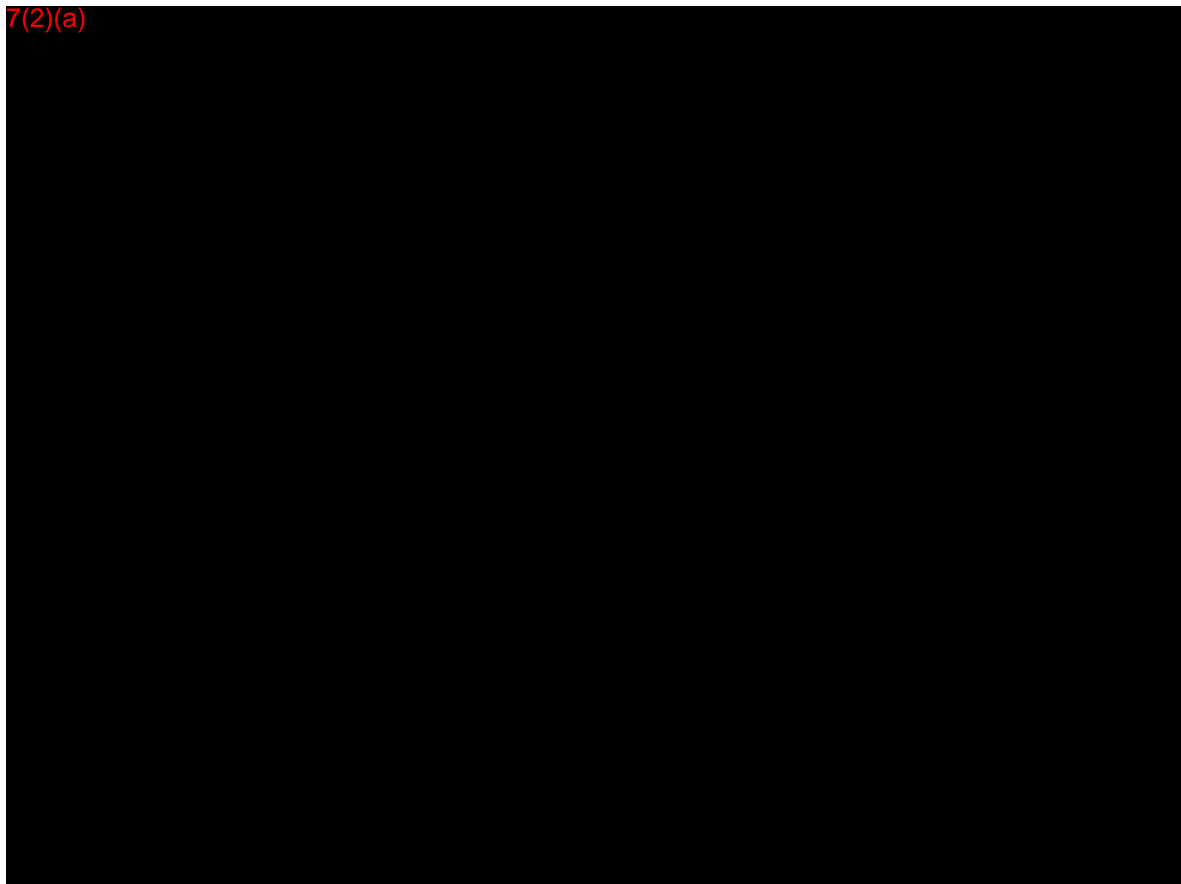
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Appendix A: Location Photos



Photograph Appendix A.1: Ngāturi Park

7(2)(a)



Photograph Appendix A.2: 7(2)(a) measurement 1

7(2)(a)

Photograph Appendix A.3: 7(2)(a) measurement 2

7(2)(a)



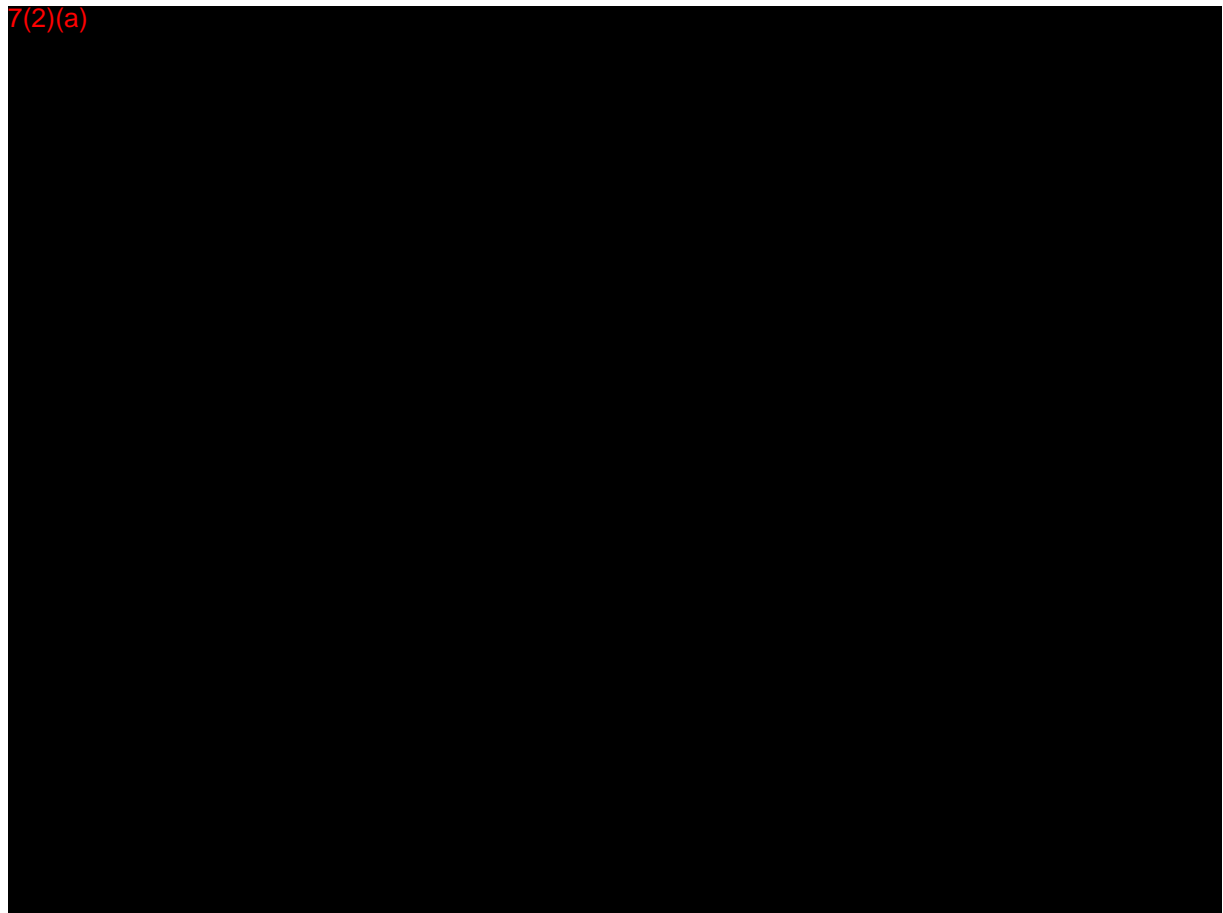
Photograph Appendix A.4: 7(2)(a) measurement 1

7(2)(a)



Photograph Appendix A.5: 7(2)(a) measurement 2

7(2)(a)



Photograph Appendix A.6: 7(2)(a) measurement 1

7(2)(a)

Photograph Appendix A.7: 7(2)(a) measurement 2

Appendix B: Plot of noise monitoring results

1s logged LAeq noise levels are shown below for each measurement. The blue sections are excluded traffic noise.



Figure Appendix B.1: Ngāturi Park

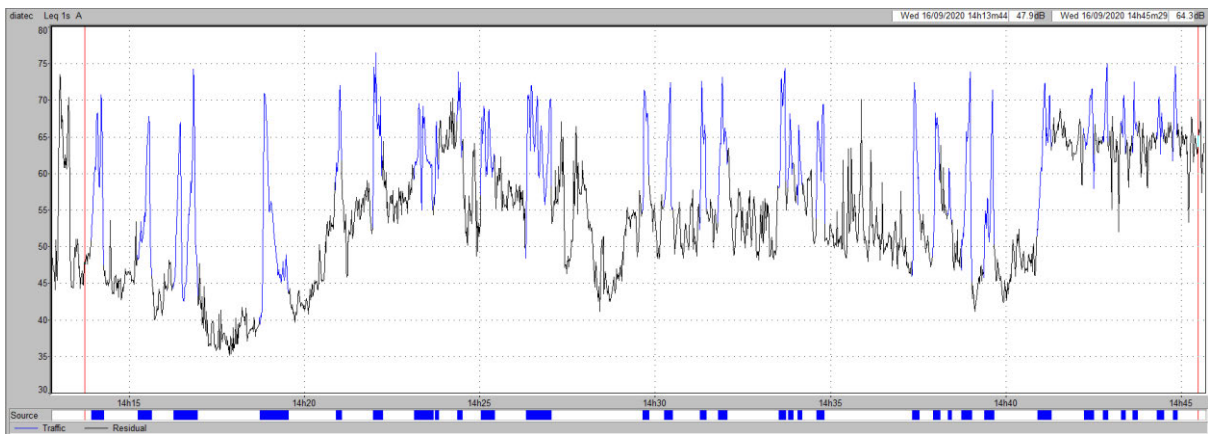


Figure Appendix B.2: 7(2)(a) measurement 1

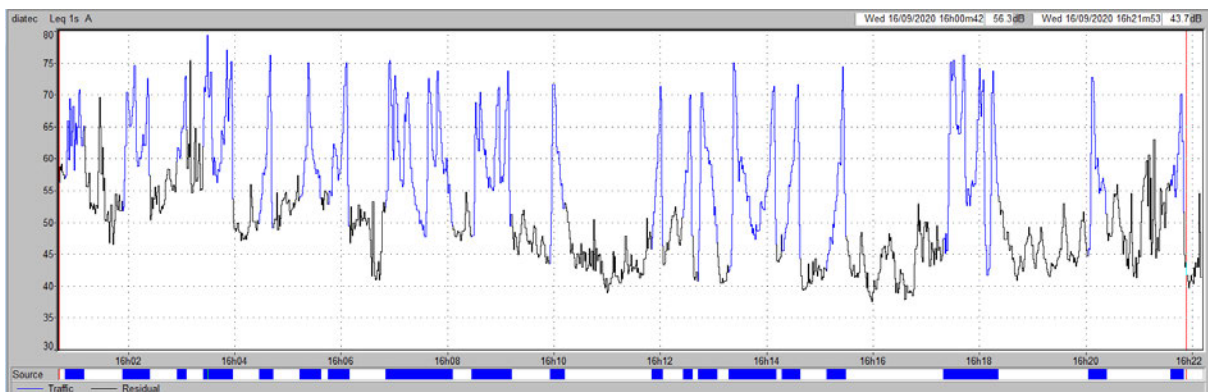


Figure Appendix B.3: 7(2)(a) measurement 2

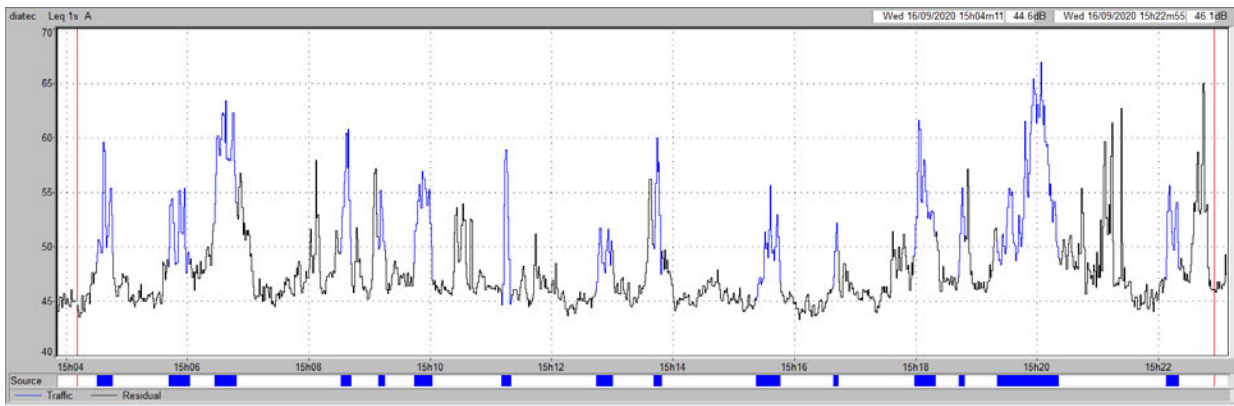


Figure Appendix B.4: 7(2)(a) measurement 1

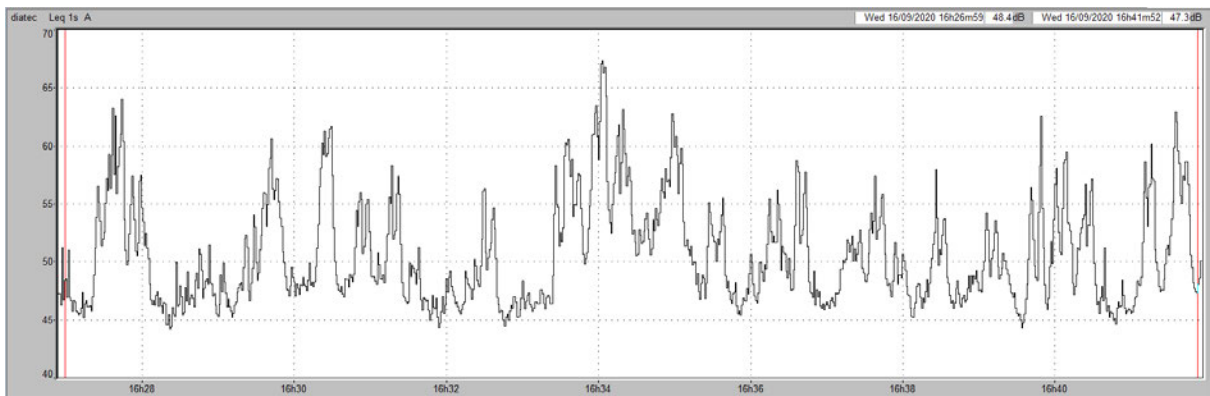


Figure Appendix B.5: 7(2)(a) measurement 2

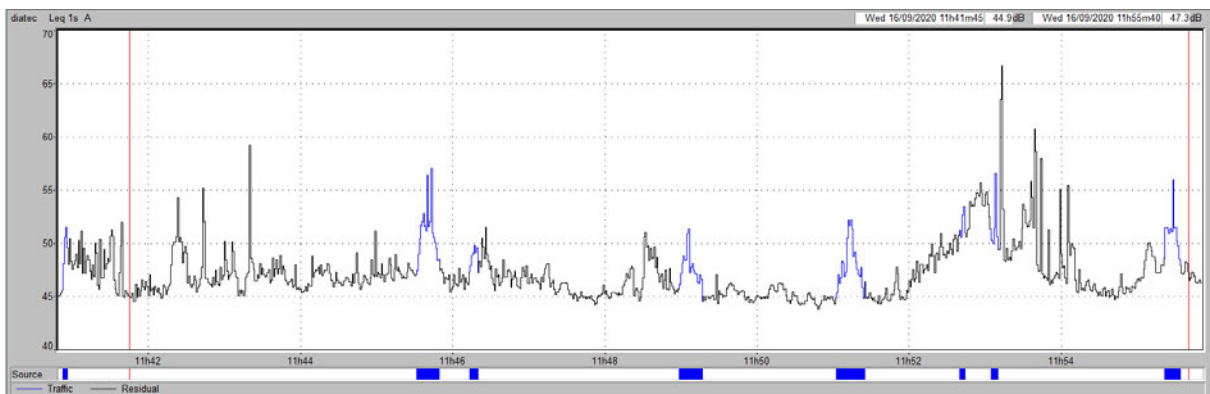


Figure Appendix B.6: 7(2)(a) measurement 1

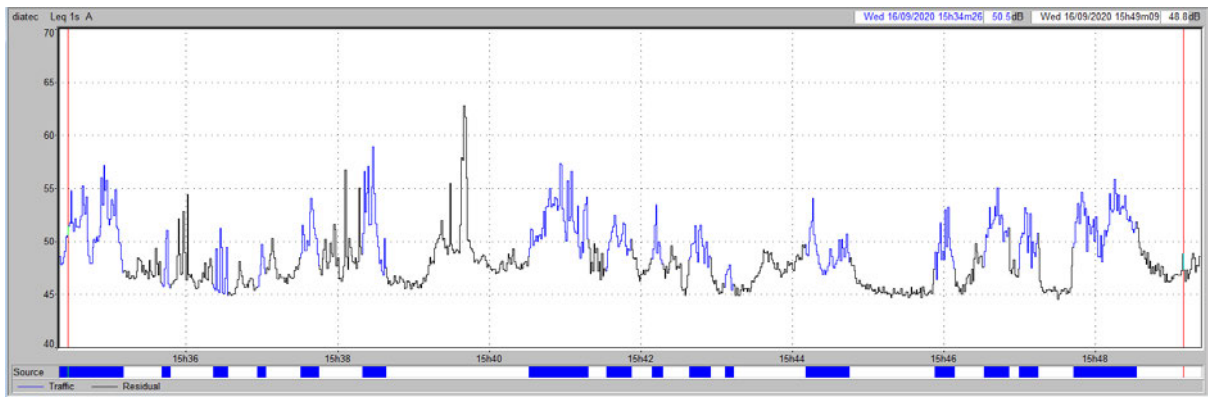


Figure Appendix B.7: **7(2)(a)** measurement 2

MEMO

Project:	Wainuiomata Cleanfill	Document No.:	Mm 05		
To:	Hutt City Council	Date:	16 February 2021		
Attention:	Pavarti Rotherham	Project No.:	20190425		
From:	Steve Arden	No. Pages:	3	Attachments:	No
Subject:	Noise Survey 2 - Peer Review				

INTRODUCTION

Consent for an expansion to a Cleanfill site located at 130 Coast Road in Wainuiomata was granted in 2019. For full details of the consent, refer to the document RM190050, issued by Hutt City Council (“HCC”).

As part of that consent, conditions exist which relate to the monitoring of noise from the site at three month intervals. Noise monitoring has been carried out by Tonkin and Taylor (“T+T”) who has subsequently provided noise monitoring reports to HCC.

HCC has engaged Marshall Day Acoustics to carry out a peer review of the T+T report, file name “2021.01.26 ah.noise-monitoring report”, dated 26 January 2021. For the remainder of this document, this will be referred to as the T+T Report.

The purpose of the review is to ensure that the assessment has been correctly carried out in accordance with the standards referenced in the consent conditions.

This document (Mm 05 20190425) should be read in conjunction with the T+T Report.

CONSENT CONDITIONS

The following consent conditions, as set out in RM190050, relate to noise.

The condition most relevant to this review is Condition 12. This sets out the noise limits for the activity, and the assessment methodology to be used.

12. Noise from any cleanfill deposition activities (excluding emergency and construction works) shall not exceed the following levels when measured at or within the notional boundary of any dwelling existing at the time the consent is granted:
 - a. Monday to Friday (excluding public holidays) 7.30 am to 5.00 pm – 50 dB LAeq
 - b. Saturday (excluding public holidays) 7.30 am to 12.00 pm – 50 dB LAeq
 - c. All other times - 40 dB LAeq
 - d. 10.00 pm to 7.00 am (all days) – 75 dB LAfmax

Notes:

For the purpose of monitoring all sound levels shall be measured in accordance with NZS 6801:2008 “Acoustics – Measurement of environmental sound” and be assessed in accordance with NZS 6802:2008 “Acoustics – Environmental Noise”.

The notional boundary is defined as a line 20 metres from the façade of a dwelling or the legal boundary of the site where this is closer to the dwelling.

13. Site construction activities³ shall be assessed (and measured where appropriate) in accordance with NZS 6803: 1999 "Acoustics - Construction Noise".

Note:

A description of construction activities will be included within the SMP.

14. The consent holder shall notify the *Team Leader, Resource Consents, Hutt City Council* and members of the CLG of any construction activities taking place and their expected duration, at least five (5) working days prior commencement of those activities.
15. The Noise Management Plan (NMP) prepared by Tonkin and Taylor Ltd (dated November 2017) shall be updated within two (2) months of approval of this resource consent. Any subsequent changes to the operation of the cleanfill relevant to noise generation will require a review of the NMP and any amendments shall be sent to the Team Leader Resource Consents for approval. The ongoing operation of the cleanfill shall be in accordance with the approved NMP.
16. The Consent holder shall undertake noise monitoring of the cleanfill within 30 days of work commencing within Stage 3 and thereafter at three (3) month intervals unless otherwise agreed by the Team Leader Resource Consents, Hutt City Council. All noise monitoring results shall be made available to Hutt City Council within two weeks of completion of each monitoring visit.

TECHNICAL REVIEW

The T+T Report uses the noise measurements they have carried out to determine a Rating Level. As defined in NZS 6802:2008, the Rating Level should be used for comparison with a noise limit. In summary, the T+T Report determines that their noise measurements are compliant with the noise limits of the consent condition 12.

We have reviewed the T+T Report and offer the following comments:

Noise Survey Methodology

The T+T report states that measurements were carried out in accordance with NZS 6801:2008 "Acoustics – Measurement of environmental sound". However, the reported wind speed is up to 25 km/h. This equates to wind speeds up to 6.9 m/s. Section 7.2.4 states "... Beyond 30 m, measurements should only be taken when wind speeds are in the range of 0 to 5 m/s. In downwind conditions, if the mean vector wind speed is greater than 3m/s, measurements are not appropriate unless such meteorological conditions are common."

The wind speeds during at least some of the survey are outside the meteorological window allowable in this standard.

Overview of Rating Level

As per 6.1.2 of NZS 6802:2008, the rating level is derived using a standardised interval of 15-minutes. A different time interval may be used if a consent condition specifies a reference interval different from 15 minutes (6.2.4 of NZS 6802:2008). For this project, the condition does not specify a time interval and therefore 15 minutes should be used as the reference time interval.

Review of T+T Analysis

In general and based on the information provided in the T+T report, we are of the opinion that the analysis in determining the rating level is in accordance with NZS 6802:2008.

Duration Adjustment

Of the six measurements carried out, two of the measurements exceed the applicable noise limit. However, these were adjusted and determined to be compliant. In summary:

- **7(2)(a)** - Measurement 1 was measured as L_{eq} 54 dBA. The noise level was then calculated out over the fifteen minute reference time period to be L_{eq} 50 dBA.

- 7(2)(a) – Measurement 1 was adjusted down by 4 dB to account for the cleanfill being operational for less than 40% of the consented time period. If the cleanfill was operational for more than 40% of the consented prescribed timeframe, then a lower reduction would be applicable.

A more appropriate approach to the assessment would be to determine a representative noise level for cleanfill activities and consider what the appropriate duration correction is for the entire activity.

Special Audible Characteristics (SACs)

The T+T report does not make any adjustment to account for SACs stating due to the infrequency of reversing beepers and tailgate bangs. As we were not present during the survey, we cannot comment on this item any further and rely on T+T's expertise in making this judgement. However, we note that SAC should be assessed on individual 15-minute periods and the relevant penalty factored into the overall rating level. Reversing beepers and tailgate bangs would likely contribute to an SAC penalty in periods where they occur with significant frequency and audibility.

Noise survey concerns

Our main concern in respect of the noise survey is whether the activities measured are representative of day to day activities.

The report clearly states that the bulldozer was operational over the survey period. However, this was only measured at the noise survey location furthest from the activity area, and only assessed for one measurement period. As the bulldozer has previously been established as the loudest activity on site, then it can reasonably be assumed that noise levels would be higher at 7(2)(a) than those reported in the survey.

In addition, there is a large variation in repeated measurements at the same location. At 7(2)(a) the difference between measurements is 5 dB and at 7(2)(a) the difference between measurements is 10 dB. This provides uncertainty in whether the noise emissions measured are representative of activities occurring throughout the day.

Table A1 of NZS 6802:2008 suggests that where a sound is fluctuating and intermittent (as it appears to be here), then at least three 15 minute events should be measured.

SUMMARY

We have reviewed the T+T Report, and specifically, their survey methodology and the implementation of NZS 6802:2008.

We are of the opinion that insufficient measurements have been carried out to establish overall compliance with the applicable noise limit (on a day to day basis). In particular, the noisiest cleanfill activities have been under-represented and the amount of variability observed in the noise measurements suggests that a much larger sample size is necessary to fully comply with the requirements of NZS 6802:2008.

The continuation of the regular noise monitoring should be targeted at ensuring the noise level is representative of day to day activities and should incorporate all cleanfill activities. This can be done via additional noise measurements which capture every type of activity or by adopting the detailed assessment methodology as set out in NZS 6802:2008.

In addition, to fully understand the extent of SACs, more information on the frequency of tailgate bangs and reversing beepers should be provided. This could include a count of occurrences during the noise survey period.