
Re: RC-2024-0136 von Ah Contracting - Composting

From Jonny Horrox <jh@wrc.govt.nz>

Date Tue 24/02/2026 12:25 PM

To Tony Ridge <tr@wrc.govt.nz>

Suggest deleting highlighted

- a) The concentration of *E. Coli* must not be increased by to more than 130E. coli/ 100ml when U/S is less than 130 E.coli/100ml, and must not be increased by more than 130 E coli/100 ml when U/S is greater than 130 E. coli/100 ml more than 1000 per 100 ml; and

Might need to list the two sampling points out of A- E

Jonny Horrox

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From: Tony Ridge <tr@wrc.govt.nz>

Sent: Tuesday, February 24, 2026 11:39 AM

To: Jonny Horrox <jh@wrc.govt.nz>

Subject: Re: RC-2024-0136 von Ah Contracting - Composting

Hi, Please also see attached draft conditions and monitoring points for comments.

Kind regards

Tony Ridge

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From: Jonny Horrox <jh@wrc.govt.nz>
Sent: Tuesday, February 24, 2026 11:12 AM
To: Tony Ridge <tr@wrc.govt.nz>
Subject: Re: RC-2024-0136 von Ah Contracting - Composting

Hi Tony

BOD

We don't measure BOD at our SOE sites. Hill Labs have detection limits of 0.4 mg/L for TBOD and 1 for CBOD. I'm not confident CBOD will be above detection limits in Duck Ck. So I'd suggest TBOD. NIWA Hamilton measures BOD at Grey@Dobson. But they use a special test to get to low detection limits. I suggest a TBOD increase of no more than 20% between u/s and d/s. Any less than that and it could be hard to measure. Rationale similar to RMA clarity.

Dobson	Dobson
BOD percentile	BOD mg/L
0.1	0.2
0.2	0.25
0.3	0.3
0.4	0.4
0.5	0.4
0.6	0.45
0.7	0.55
0.8	0.69
0.9	0.94
1	2.15

Total ammonia

Very low ammonia levels in Duck Ck @ Kokatahi. I was wrong about 0.03 mg/L being too stringent, its about the 85 percentile.

0.03 mg/L is the level typical for slightly impacted waterways, as determined from a large national survey in the 80's.

You could keep this condition.

Duck	Duck
Ammonia percentile	Total ammonia mg/L
0.1	0.005
0.2	0.005
0.3	0.005
0.4	0.005
0.5	0.007
0.6	0.0086
0.7	0.011
0.8	0.023
0.9	0.043
1	0.46

E coli

Low E coli in Duck Creek.

I would suggest:

1. a limit of 130 E coli/100 ml, when upstream is under 130. This will cover finer weather, lower flows.
2. When upstream is over 130, an increase of no more than 130. This will cover wetter weather, more surface run-off.
3. No sampling when Butchers Creek rain gauge indicates more than 30 mm in last 24 hours. E coli will be high, volatile readings and unreliable.

130 is the NPSFM 2020 median threshold for A numeric attribute state.

Duck	Duck
E coli percentile	E coli/100 ml
0.1	20
0.2	30.4
0.3	50
0.4	64.8
0.5	92.5
0.6	121
0.7	180
0.8	382
0.9	1400
1	33000

Cheers

JH

Jonny Horrox

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From: Tony Ridge <tr@wrc.govt.nz>
Sent: Tuesday, February 24, 2026 8:26 AM
To: Jonny Horrox <jh@wrc.govt.nz>
Subject: Re: RC-2024-0136 von Ah Contracting - Composting

Hi, thanks, want limits would you suggest for the biochemical oxygen demand and E coli ? I'm currently working on an addendum for the hearing that covers off a new set of conditions.

Tony Ridge

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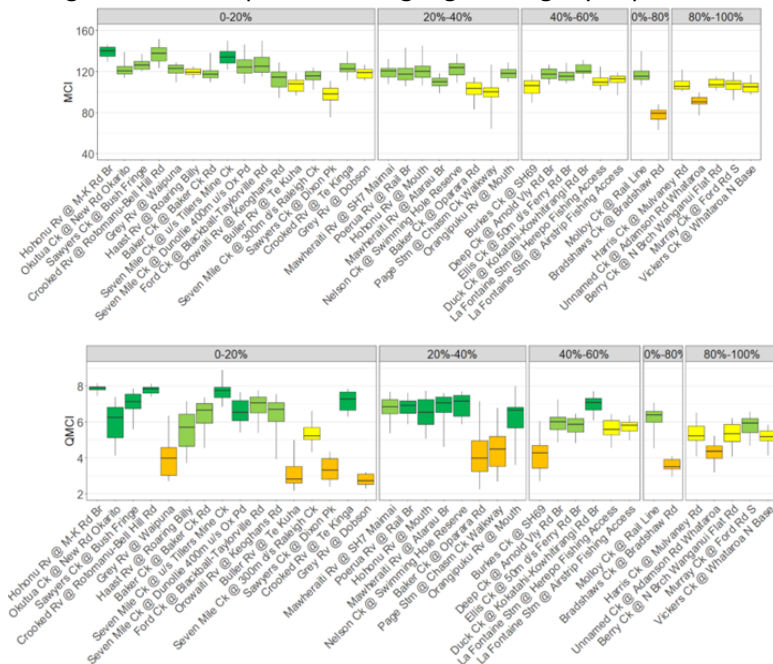




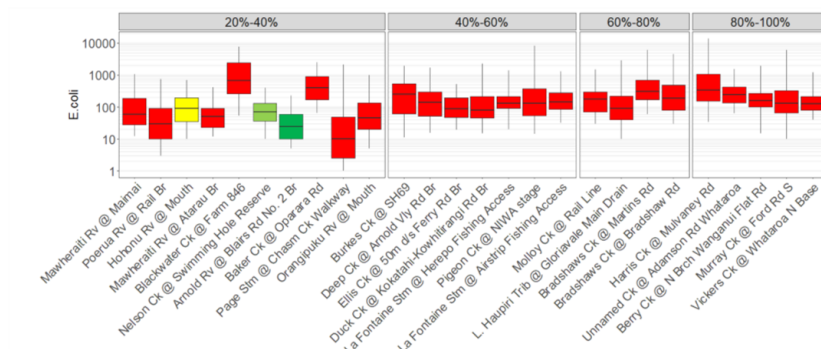
From: Jonny Horrox <jh@wrc.govt.nz>
Sent: Monday, February 23, 2026 5:35 PM
To: Tony Ridge <tr@wrc.govt.nz>
Subject: Re: RC-2024-0136 von Ah Contracting - Composting

Hello Tony

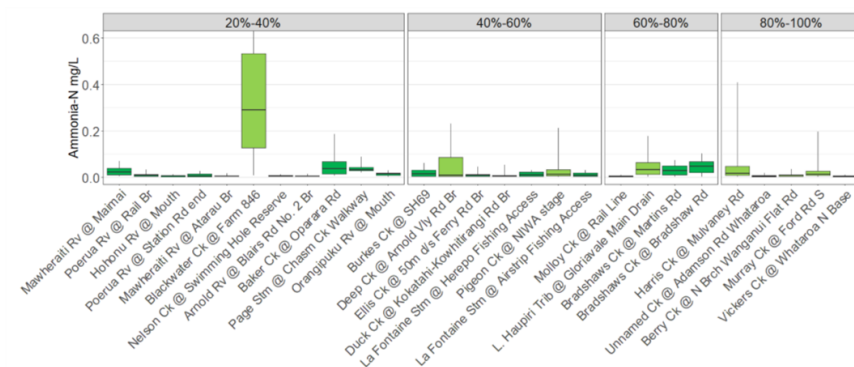
Duck Ck macroinvertebrate communities are indicative of pristine or near pristine streams. On the graphs below dark green indicates pristine and light green slightly impacted.



The BOD and E coli limits represent large increases, and I don't think they are appropriate. This wouldn't fit with the NPSFM NOF attribute tables and policy. Don't have background BOD, do have background ammonia and E coli.



Ammonia might be too stringent.



Jonny Horrox

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From: Tony Ridge <tr@wrc.govt.nz>
Sent: Monday, February 23, 2026 4:04 PM
To: Jonny Horrox <jh@wrc.govt.nz>
Subject: RC-2024-0136 von Ah Contracting - Composting

Hi Jonny, with regard to this application, can you please provide the following; confirmation that the attached sampling points were determined with your collaboration; comments regarding the following sampling parameters and their respective compliance limits.

Sampling Parameters

- § BOD5;
- § Suspended Solids;
- § *E. Coli*;
- § Ammoniacal-Nitrogen;
- § Total Nitrogen;
- § Dissolved Reactive Phosphorus (DRP);
- § Total Phosphorus.

The discharge must not cause the natural (background) water quality of Point A or Point C as measured at Point A, to fall below the following standards at Point B:

- a) The BOD5 must not be increased by more than 5 mg/L;
- b) The concentration of *E. Coli* must not be increased by more than 1000 per 100 ml; and
- c) The concentration of ammoniacal-nitrogen must not be increased by more than 0.03 mg/L.

Also, you mentioned that Duck Creek had a good MCI score, could you please elaborate on it ?

Kind regards

Tony Ridge

Senior Consents Officer | West Coast Regional Council

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