From:	Kate Madsen
To:	"Biance Schoeman"
Subject:	FW: Gleeson Quarry wetland compensation
Date:	Tuesday, 13 October 2020 12:57:18 PM
Attachments:	image001.png image006.png image009.png Vision and Strategy Adendum to AEE Gleeson Managed Fill.pdf

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Kind Regards,
Kate Madsen
Director – Paua Planning

PAUA PLANNING

Environmental & Social Impact Assessments - Resource Consents - Planning Advice and Action
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From: Kate Madsen <kate@pauaplanning.co.nz>
Sent: Wednesday, 29 April 2020 2:42 PM
To: 'Emma Cowan' <Emma.Cowan@waikatoregion.govt.nz>; 'Nicola Laurenson' <nicola@laurensonplanning.co.nz>
Cc: 'Kathryn Drew' <kdrew@bbo.co.nz>; 'Perry Empson' <Perry.Empson@waikatoregion.govt.nz>; 'Ella Makin' <Ella.Makin@waidc.govt.nz>; 'Jamie MacKay' <Jamie.MacKay@wildlands.co.nz>; 'Mark Pelan' <mark.pelan@gleesoncox.co.nz>
Subject: RE: Gleeson Quarry wetland compensation

HI Emma/Nicola,

Please find attached addendum detailing response in regard to betterment under Vision & Strategy for the Waikato River.

Also:

- The SAP is being reviewed and will be provided asap;
- Wildlands is going to site tomorrow to undertake the field work in regard to the additional areas proposed for inclusion in the EMP, however it is requested that if this updated EMP is not quite ready, the final version of the EMP be provided as a condition of consent, so as not to delay things further. Please advise if this is acceptable.
- Note – an updated CIA is being provided on Friday and will be sent through – iwi representative Norm Hill has verbally confirmed they are comfortable that the proposal

and ecological compensation achieve a satisfactory level of 'net gain' to the catchment.

Kind Regards,
Kate Madsen
Director – Paua Planning

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From: Emma Cowan <Emma.Cowan@waikatoregion.govt.nz>
Sent: Wednesday, 29 April 2020 8:38 AM
To: Nicola Laurenson <nicola@laurensonplanning.co.nz>; Kate Madsen <kate@pauaplanning.co.nz>
Cc: 'Kathryn Drew' <kdrew@bbo.co.nz>; Perry Empson <Perry.Empson@waikatoregion.govt.nz>; 'Ella Makin' <Ella.Makin@waidc.govt.nz>
Subject: RE: Gleeson Quarry wetland compensation

Hi Nicola

The WRC conditions have been drafted and are being reviewed internally. However, I am still waiting for the draft managed fill water sampling and analysis plan (SAP) and an updated EMP that reflects changes to the ecological compensation. As well as a bit more information around how betterment is being achieved. Some of the above will be added into the draft conditions once received.

Has WDC drafted conditions for areas 2,3, 4?
If so could you lease send them through so I can check there's no conflicts with the WRC conditions.

I guess WDC has picked up the terrestrial ecology aspects and has the bat management conditions etc in the district consents?
If so the regional consents may not need to cover this.

Thanks

Emma Cowan | RESOURCE OFFICER | Land Development, Resource Use
WAIKATO REGIONAL COUNCIL | Te Kaunihera ā Rohe o Waikato
Take a look at the work we do

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Private Bag 3038, Waikato Mail Centre, Hamilton, 3240

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To ensure we are doing everything we can to slow down the impact of COVID-19, our offices are currently closed and our staff are working remotely. If you need health advice or information, call Healthline on 0800 358 5453 or head to covid19.govt.nz.

From: Nicola Laurenson <nicola@laurensonplanning.co.nz>
Sent: Tuesday, 28 April 2020 5:06 pm
To: Kate Madsen <kate@pauaplanning.co.nz>; Emma Cowan <Emma.Cowan@waikatoregion.govt.nz>
Cc: 'Kathryn Drew' <kdrew@bbo.co.nz>; Perry Empson <Perry.Empson@waikatoregion.govt.nz>; 'Ella Makin' <Ella.Makin@waidc.govt.nz>
Subject: RE: Gleeson Quarry wetland compensation

Good evening all,

It feels like a while since I have touched base – or does it just feel that way?

I hope you are all well.

Is there any update for this work that would assist the progression of the District consents?

Thanks,
Nicola

From: Kate Madsen <kate@pauaplanning.co.nz>
Sent: Friday, March 27, 2020 11:34 AM
To: 'Emma Cowan' <Emma.Cowan@waikatoregion.govt.nz>
Cc: 'Kathryn Drew' <kdrew@bbo.co.nz>; 'Perry Empson' <Perry.Empson@waikatoregion.govt.nz>; Nicola Laurenson <nicola@laurensonplanning.co.nz>; 'Ella Makin' <Ella.Makin@waidc.govt.nz>
Subject: FW: Gleeson Quarry wetland compensation
Importance: High

Hi Emma,

I trust you are all set up at home and managing to work – it has been business as usual for us to date, for which I am very grateful for. Hoping you and your family remain healthy and well while we wait this time out :)

Kathryn phoned yesterday to say you will be completing the reporting on this one – thank you so

much – I believe we are just waiting on Fiona from Aecom to confirm the additional degraded wetland area offered for rehabilitation and protection is sufficient to mitigate effects – it would be great to get an update as to where this is at so I can advise Gleeson.

If you require any information or need to chat about the consent, please just call me or email – happy to help in any way I can, particularly around coordinating and aligning conditions between Fill Area 5 consent and district consents, which are ready to go pending ecology and regional finalisation

Look forward to hearing from you. The latest email re wetland compensation sent to Fiona is attached fyi.

Kind Regards,
Kate Madsen
Director – Paua Planning

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From: Kate Madsen <kate@pauaplanning.co.nz>
Sent: Tuesday, 24 March 2020 4:07 PM
To: 'Kathryn Drew' <kdrew@bbo.co.nz>; 'Perry Empson' <Perry.Empson@waikatoregion.govt.nz>; 'Ella Makin' <Ella.Makin@waidc.govt.nz>
Cc: 'Mark Pelan' <mark.pelan@gleesoncox.co.nz>; 'Fiona' <fiona.davies@aecom.com>' <Fiona' <fiona.davies@aecom.com>>; 'Nicola Laurenson' <nicola@laurensonplanning.co.nz>
Subject: FW: Gleeson Quarry wetland compensation

HI Kathryn, Perry and Ella

Hope you are doing well and adjusting quickly to the crazy new normal – and that your whanau are well and safe. I wanted to let you know I am working through and keen to use this time to do whatever I can to assist both clients and council.

Below and attached is response to Fiona from Aecom re EMP and additional compensation, to which I realised you were not cc'd in.

Kathryn: Would you kindly follow up with Fiona and see when we might know if the EMP is now accepted on the basis of what is offered? As this is the only outstanding issue, I am hoping to be

able to give Gleeson some good news in the near future :)

Please let me know if there is anything further I can do to assist

Kind Regards,
Kate Madsen
Director – Paua Planning

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From: Jamie MacKay <Jamie.MacKay@wildlands.co.nz>
Sent: Monday, 23 March 2020 12:14 PM
To:
Cc: 'Kate Madsen' <kate@pauaplanning.co.nz>
Subject: Gleeson Quarry wetland compensation

Hi Fiona,

Thank you for your comments on the Gleeson Quarry EMP and BMP. I have undertaken some calculations to attempt to quantify the wetland compensation being offered and I wanted to run them past you before updating the report. There are no appropriate locations nearby to recreate wetland habitat so we are still proposing to restore and improve existing habitat.

I have used the Boffa report and my observations on site to conservatively quantify the loss of indigenous wetland vegetation at the impact sites. All the wetlands are degraded but they do all have an indigenous component with FA4 having the highest proportion of indigenous vegetation in the wetland fringing the pond.

Location	Area (ha)	Estimated native	Native loss (ha)
FA2	0.05	0.5	0.03
FA3	0.07	0.5	0.04
FA4	0.04	0.7	0.03
Total	**0.15**		**0.09**

I then used the wetland management units in our EMP to calculate the amount of indigenous wetland vegetation currently present in the compensation area, and to estimate the amount of indigenous wetland vegetation that could be gained through removal of pest plants. For these calculation I have assumed the maximum proportion of indigenous wetland vegetation that is achievable is 90%.

Management Unit	Area (ha)	Estimated native	Native gain through restoration to 90% (ha)
MU2	0.06	0.65	0.01
MU4	0.12	0.8	0.01
		Total	**0.02**

These calculations indicate that our original proposal would result in the loss of 0.07 ha of indigenous wetland vegetation. Our proposal was to address this shortfall through the protection and restoration of the headwaters of the stream and wetland complex through fencing, pest plant control and planting. The total area of habitat to be restored is 2.98 ha. The area is currently unfenced and stock have access to the stream and wetland. The wetland is dominated by non-palatable species which suggests that stock are impacting the wetland and there is little to no indigenous regeneration within the buffer. Preventing stock access to the buffer, the stream, and the wetland together with planting will reduce runoff into the system and allow palatable species to regenerate naturally. The gully has been identified as an SNA and I considered that this holistic approach would provide appropriate compensation for the loss of degraded wetlands produced by human activity at the impact site. However, quantifying these benefits will be time consuming and the client is keen to progress this consent as quickly as possible so we are proposing to extend the compensation area to encompass degraded wetland downstream of the pond:

The area enclosed within the polygon shown above is approximately 3,000 m2 and a 10 metre

buffer will be provided. The exact dimensions of the additional area will be determined following a site visit to identify feasible fence locations and wetland extent. The attached image shows the existing vegetation and it is very clear that the vegetation is dominated by exotic species with a very minimal indigenous component. If we conservatively assume that 30% of the vegetation is indigenous, restoring the wetland to 90% indigenous vegetation will provide up to an additional 0.18 ha of indigenous wetland vegetation. This, combined with the 0.03 ha increase in indigenous wetland vegetation that will be gained through restoration of the wetland upstream of the pond, gives a total increase in indigenous wetland vegetation of 0.21 ha. Is this an appropriate restoration ratio?

Responding to your other comments:

1. "The quantum of buffering"
    - The buffer to be restored is a minimum of 10 metres width, and up to 20 metres width (from the wetland or stream edge to the upslope extent of the plantings).
2. "The time it will take to achieve the benefit (temporal lag)"
    - Excluding stock will immediately reduce physical damage to the wetland, and direct nutrient input from stock and runoff. The wetland is expected to rapidly improve in condition within the first 3-5 years of fencing and restoration works, and will be in very good condition by 10 years. The benefits of pest plant control and planting in the adjacent buffer habitats will take longer. The buffer will have good riparian protection functions within five years of stock exclusion and planting, and will achieve canopy closure over a similar timeframe. The terrestrial habitats will provide functioning forest and shrubland habitats for indigenous fauna by 10 years post establishment.
3. "The likelihood of success"
    - With appropriate management, both wetland and terrestrial habitats at the site will be successfully restored by the methods proposed. Monitoring will be required to ensure appropriate and regular maintenance is undertaken during the establishment phase (and interventions such as supplementary plantings and or additional pest control if required). A suitable and achievable performance measure for both wetland habitats and the terrestrial buffer is 80% cover with indigenous species by the end of five years of management.

Please let me know if you require any more information, I'm in my home office all week if a phone call is easier.

Kind regards,

Jamie

Dr Jamie MacKay Senior Ecologist, Ecology Team Leader
Wildland Consultants Ltd Ph 0064 9 360 6083
Mobile 021 325 272 Email Jamie.MacKay@Wildlands.co.nz Web www.Wildlands.co.nz
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