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22 December 2022

Horowhenua District Council 126/148 Oxford Street Levin 5510

Kāpiti Coast District Council 175 Rimu Road Paraparaumu 5032

Tēnā tātou,

Ōtaki to north of Levin Highway Project- – Response to request for additional information pursuant to section 92 of the Resource Management Act 1991

This letter provides a response to the request for further information pursuant to section 92 of the Resource Management Act 1991 ("RMA") received on [add date] in relation to the notices of requirement for designations ("NoR")¹ to authorise the Ōtaki to north of Levin Highway Project ("Ō2NL Project" or "the Project")

The information requested and the Waka Kotahi NZ Transport Agency ("Waka Kotahi") response is set out in the following table or attached.

No.	Jurisdiction	Information requested	Waka Kotahi response
Traffic and Transport			
97.	HDC	Section 18.6 of the AEE notes that the works to relocate and improve the Tararua Road and existing State Highway 1 intersection are partly within the existing SH1 designation (Designation D2, 'State Highway 1). Paragraph 21 of the Final Technical Assessment A – Transport confirms that the project includes improvements at this location, however, there is no detail –[provided in the geometric design of the	A drawing is provided in Volume III Plan Set: General Arrangement drawing 310203848-01-100-C1017.

¹ Horowhenua District Council – 504/2022/22 & Kapiti Coast District Council - RM220254

·	
proposed intersection/level	
crossing upgrade works at	

this location. Could the Applicant please provide details of the geometric design for the (existing) SH1 / Tararua Road intersection?

At paragraph 3.3.3, Final Technical Assessment A -Transport, reference is made to the East West Arterial (EWA) which is acknowledged to provide additional capacity in the transport network. Could the Applicant please confirm that the EWA could occur without O2NL? What are the traffic and transportation effects that would flow from the EWA not being established once O2NL is constructed?

Waka Kotahi understands that the East West Arterial (EWA) is a transport connection that is proposed as part of the Tara-Ika development and so it would be advanced as per the requirements of that development.

The Ō2NL Project does not preclude that transport connection from being constructed.

Waka Kotahi response

An assessment has not been made of the transport network with Ō2NL and without EWA as it has been assumed that EWA is needed to support the level of growth forecast in Tara-Ika.

99. HDC

No.

98.

HDC

The Final Technical Assessment A – Transport (paragraph 46) indicates that the East West Arterial (EWA) connecting the central part of Tara-Ika to Arapaepae Road has only been assumed to be in place with O2NL and is not part of the Do-Minimum, however this appears inconsistent with the demand assumptions (at paragraph 196, the Transport Assessment states that side road delays could restrict the amount of development that could occur within Tara-Ika). Additionally, the Final Technical Assessment A -Transport (paragraph 164) describes infrastructure upgrades assumed to take place in the Do-Minimum and specifically states (paragraph 164g) that this

The traffic modelling shows that the East West Arterial is needed to address the transport effects associated with the full build out of Tara-Ika (by 2039).

Waka Kotahi had understood that the HDC intended to lodge RMA planning applications for the EWA at a similar time to the planned lodgement of RMA applications and notices of requirement for the Ō2NL Project. Therefore, as the EWA would be subject to its own RMA processes, it was necessary to be able to identify the effects of the combination of the EWA and the Ō2NL Project, with the effects of the EWA to be addressed through a separate application.

The Do Minimum network was agreed with HDC (and KCDC) and this excluded the East West Arterial (EWA).

No.	Jurisdiction	Information requested	Waka Kotahi response
		includes local road improvements associated with Tara-Ika. Could the Applicant please explain why the East West Arterial (EWA) connecting the central part of Tara-Ika to Arapaepae Road has only been assumed to be in place with Ō2NL and is not part of the Do-Minimum?	
100.	HDC	Could the Applicant please confirm that the Tara-Ika development can occur irrespective of or prior to Ō2NL, albeit with potential restrictions upon development if assessments identify capacity / safety issues on the road network?	The Ö2NL Project notices of requirement and applications for resource consent do not prevent other RMA applications being lodged, nor does it prevent Tara- Ika development from occurring where it is located outside of the land subject to the proposed designation for the Ö2NL Project. Where the Tara-Ika development is proposed to occur on the land subject to the notice of requirement, Waka Kotahi will work with the developer to understand how and if the developer's requirements can be met in a manner that does not prevent or hinder the Ö2NL Project (pursuant to section 176(1)(c) of the RMA). The potential road network capacity / safety issues associated with the development of Tara-Ika would be a matter for consideration through RMA consent process/es for that development.
101.	HDC	The Final Technical Assessment A – Transport (paragraph 113) provides a breakdown of trip patterns for vehicle trips heading north along SH1 from a point to the north of Ōtaki. This is based on TomTom GPS data. Could the Applicant please provide sampling rates for the TomTom travel time data, and a comparison provided between the TomTom data and the modelled travel times (for 2018)?	Average travel times are based on weekday sample sizes ranging from 700-1,000 in the AM peak, 1,300- 6,600 in the interpeak and 400-1,300 in the PM peak for the three key journeys (Ōtaki to SH1 north of Levin, Ōtaki to central Levin and Ōtaki to SH57 north of Levin). 2018 Modelled and 2018 TomTom travel times are similar, with differences of between +1 % (0.2min) for Ōtaki to north of Levin, +4% (0.6min) for Ōtaki to Central Levin and -7% (1.6min) for Ōtaki to SH57 north of Levin.
102.	HDC	Could the Applicant also please provide further information and detail with regard to existing patterns	Using traffic model outputs (which consider trips between model zones, not trips within zones), two thirds of trips have an origin or destination in the area encompassing Ōtaki and Levin (17% of trips stay within this area and

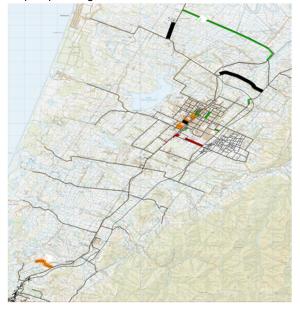
No.	Jurisdiction	Information requested	Waka Kotahi response
		of travel through and within the area?	49% have one trip end in this area). One third of trips travel all the way through this (Ōtaki and Levin) area.
103.	HDC	The Final Technical Assessment A – Transport (paragraphs 188 – 193) suggests that travel times will increase significantly in the Do-Minimum scenario. Table A.7 compares observed TomTom travel time data for 2018 with modelled data for 2039. Such a comparison may introduce differences which are attributable solely to the reliability of the observations (sampling rates etc) and/or the reliability of the modelling. Could the Applicant please provided information with regard to the TomTom sampling rates, or the comparison should be between modelled data for 2018 and that for 2039?	See response to request 101 that includes a comparison of TomTom GPS data and modelled data.
104.	HDC	Could the Applicant please provide information in relation to the overall changes in travel distances and CO ₂ emissions as a result of Ō2NL?	Climate change considerations are discussed in section 3.5 of the Supporting Information and Assessment of Effects on the Environment' Report (Volume II). For completeness, Waka Kotahi notes that the effects of greenhouse gas emissions associated with the O2NL Project (including 'enabled emissions') is not a relevant consideration in respect of decisions on the notices of requirement for the Ō2NL Project. In particular, section 104E of the RMA, while now repealed, continues to apply to the Ō2NL Project because the notices of requirement were given before 30 November 2022.
105.	HDC	The Final Technical Assessment A – Transport (paragraph 219) describes walking and cycling facilities to be provided associated with Ō2NL but the only references to Tara-Ika are to connections at Queen Street East and Tararua Road, and there is no reference to the	The Ō2NL Project has assumed that these additional east west (vehicular, walking and cycling) connections would be provided as part of the development of Tara- lka. These east west connections are not currently in place and they are not required to be constructed or in place by the Ō2NL Project. The Ō2NL Project does not preclude the development of these additional east-west connections between Tara-lka and urban Levin.

No.	Jurisdiction	Information requested	Waka Kotahi response
		pedestrian/cycle overbridges shown by the Tara-Ika Masterplan. Furthermore, the walking and cycling benefits of the SUP (Transport Assessment paragraphs 263 – 266) make no mention of the connectivity to Tara-Ika and the proposed E-W connections across Ō2NL. Could the Applicant please comment on the treatment of Tara-Ika and the provision of east-west connectivity (vehicular, walking, cycling) both with and without/prior to Ō2NL?	
106.	HDC	Could the Applicant please provide further information and detail with regard to existing patterns of travel through and within this area?	See the response to request 102 above.
107.	HDC	The modelling indicates that movements between the south and the Levin CBD will route via Tararua Road (rather than exit at the Taylors Road intersection and travel by means of the existing SH1). Could the Applicant please clarify that the route which traffic is expected to take between the Levin central area and Ōtaki / South will be via Tararua Road and that this will be the new point of entry to Levin from the south?	Yes, the preferred route from Levin CBD to Ōtaki would be via Tararua Road and the Ō2NL Project.
108.	HDC	It is understood that the baseline growth assumption relates to the adoption of the 75th percentile growth scenario. The Final Technical Assessment A – Transport states (paragraph 44) that sensitivity testing	The sensitivity testing was undertaken to determine if the Ō2NL Project would perform adequately after a sustained period of very high growth (as envisaged by the 95 th percentile growth scenario). The figure below (also included at full size at Attachment 1) provides projected level of service at 2039 using the 95 th percentile growth scenario. This can be compared with Figure A.19 in Technical Assessment A. It shows

has been undertaken for a 95th percentile growth scenario, but no results have been presented. Could the Applicant please provide information in relation the 95th percentile growth sensitivity tests?

Waka Kotahi response

that there are no significant delays on, or on approach to the new highway, but there are other parts of the transport network near the new highway that may need further consideration, as part of business-as-usual transport planning, should this situation eventuate.



109. HDC

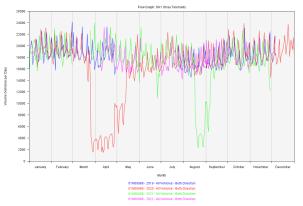
The Final Technical Assessment A – Transport (paragraph 112) suggests that current volumes have recovered close to pre-Covid (2018) levels and therefore the 'existing' volumes remain relevant. Could the Applicant please provide a more detailed analysis of changes in traffic volumes through this period and also comment on the effects of Covid upon forecast traffic volumes for 2039. and whether these will be lower as the result of losing two years of growth?

The graphs included below (and provided as Attachment 2) provide actual count data at the two telemetry sites at SH1 Ohau and SH57 Shannon for volume trends between 2019 and 2022.

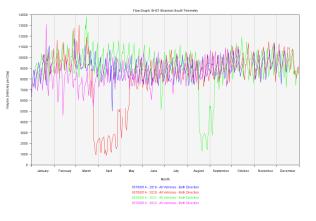
The graphs indicate that the impacts of COVID-19 at both locations is related to the lockdown period durations.

Analysis of this TMS data, shows that excluding the lockdown periods, volumes in 2021 were higher than 2019 (+1% at SH1 Ohau and +6% at Shannon).

The data available indicates that there may have been some short-term impacts but does not indicate that it is necessary to adjust the traffic growth projections that have been used.



Waka Kotahi response



110.	HDC	The Final Technical Assessment A – Transport (paragraph 256) indicates that modelling of conditions at the (old) SH1/Tararua Road intersection using SIDRA rather than SATURN, changed the forecast level of service from E to B. Could the Applicant please comment upon the reliability of intersection modelling in SATURN, given the use of SIDRA to identify a lower level of service for the (existing) SH1 / Tararua Road intersection?	The SATURN modelling was undertaken on a worst-case intersection form with fewer lanes. More detailed assessment and subsequent design updates added a lane to respond to the poor performance of the intersection (as signalled by a Level of Service E) identified by SATURN and hence SIDRA modelling of updated layout shows improvement to a Level of Service B. Therefore, there is no issue in reliability of using SATURN, as it modelled a different layout.
111.	HDC	Could the Applicant also please provide more information in relation to what this means for the reliability of the SATURN- based delay forecasts elsewhere and for queue lengths and delays at this critical intersection?	See the response to request 110 above. There have been no other changes in layouts between SATURN and SIDRA proposed. Therefore no reliability issues in respect of the use of the SATURN model arise.
112.	HDC	The Final Technical Assessment A – Transport (paragraphs 27 and 268) claims that 'investment in more frequent and attractive public transport options for surrounding communities' may arise from the 'old highway' being quieter.	This was identified as an opportunity only. Current public transport services are subject to the same delays as general traffic which are outlined through the Technical Assessment A (refer to pages 25 – 54).

Waka Kotahi response

Could the Applicant please provide evidence that existing public transport services are constrained by travel conditions within the existing road network?

113. HDC The Final Technical Assessment A – Transport (paragraph 32) suggests that a detailed construction methodology will be provided with a Construction Traffic Management Plan (CTMP). Some further information is provided at paragraphs 282 - 300. While it is acknowledged that construction logistics are necessarily coarse at this stage of project development, it is expected that further information should be provided in the form of a draft CTMP as part of the application, to provide a reasonable assurance that effects during the construction phase are able to be managed. Could the Applicant please provide a draft CTMP as part of the application material? KCDC Could the Applicant please explain why the decision has been made to provide

The actual and potential effects of construction traffic are described in Technical Assessment A (Transport) (provided in Volume IV) and the approach to managing those effects is provided in Part H of the Supporting Information and Assessment of Effects on the Environment Report (Volume II). This Report specifically refers to proposed designation conditions provided as Appendix Five to Volume II.

The proposed designation conditions (DCT1) require the preparation of a Construction Traffic Management Plan (CTMP) and the objective and the content of the plan are specified in Schedule 2 (to the conditions). The stated objective of the CTMP is to manage property access, construction traffic and safety for all road users associated with the construction of the Project. Any proposed work on local roads, including the creation of access for construction traffic, will be subject to separate approval processes with the relevant road controlling authority (either Horowhenua District Council or Kāpiti Coast District Council).

The CTMP will be prepared and provided to Councils as part of the section176A (RMA) outline plan process, and as described in proposed Condition DGA6.

- 114. KCDC Could the Applicant please explain why the decision has been made to provide one option for Taylors Road (southern interchange) when discussions and communication with KCDC have not been closed out?
- 115. KCDC Could the Applicant please provide more information on the problem that the Taylors Road interchange is trying to solve, the alternatives assessment undertaken for the Taylors Road location

Details of options considered and assessed (using multicriteria analysis) and then how a preferred option was selected is described in Part E of the Supporting Information and Assessment of Effects on the Environment Report (Volume II), which includes specific additional consideration described in section 28.1.

Please refer to the response to request 114 and also to Attachment 3 that provides more information about the half interchange proposed including how Taylors Road is anticipated to perform.

Waka Kotahi response

and the basis for decision making?

116. KCDC Could the Applicant please Details of consultation and engagement activities provide evidence of how the undertaken is provided in Part F of the Supporting community and stakeholders Information and Assessment of Effects on the were engaged with in Environment Report (Volume II). Specifically, the design of the southern interchange and the proposed reaching the proposal for arrangements at Taylors Road (as shown on the Taylor Road access that has been presented in General drawings provided in Volume III) were part of the Arrangement Plan consultation and engagement undertaken in April - May Indicative Sheet 18? 2022 on the preliminary concept design for the Project as described in Section 35.3.2. Information boards used at these events included: Otaki to north of Levin Engagement display boards part 1: Connections (nzta.govt.nz). A newsletter was also distributed to the local community that depicts the current design: Otaki to north of Levin update - April 2022 (nzta.govt.nz). No specific written feedback was provided from the community in respect of the proposed design at Taylors Road. The community members who discussed the design with the Project Team, at open days and community events, supported the increased connectivity that the southern interchange would provide. 117. KCDC Could the Applicant please The Taylors Road realignment (which was constructed comment on the safety, as part of the Peka Peka to Ōtaki Project) would only be operations, and used as an alternative to the state highway in very rare *maintenance requirements* circumstances when the approximately 600m stretch of for the Taylors Road linkage new highway between the end of the north facing ramps as the alternative arterial to north of Ōtaki and the start of the south facing ramps at the proposed Expressway? Taylors Road needs to be closed. The chances of an incident that closes one direction on this short stretch are very small, and the chances of a two-way closure are smaller still. In the event that this section is closed then a temporary diversion onto Taylors Road and through Ōtaki itself may be required (if two lanes are closed on the state highway then the remaining two lanes could be used to provide 2way movement). The operation (including safety) of the temporary diversion would, as per normal state highway operations, be managed by traffic control. Due to the expected infrequent nature of needing such a closure it is unlikely that maintenance requirements would be affected. Nevertheless, these matters can be resolved at the time of occurrence. KCDC There is no Transport The diagram below has been prepared displaying

transport linkages and integration with the PP2O Project (now open) as requested (and is provided at full size as Attachment 4):

118.

System Plan displaying the transport linkages and integration (Local Traffic, Expressway Traffic, PT, and Active Modes) with the

PP2Ō project and Ōtaki community and no detailed traffic / active mode volumes for the roads / links around Ōtaki to allow for consideration of the assessment of effects (Transport, Economics and Community/Social). Could the Applicant provide a Transport System Plan to demonstrate the integration and outcomes of the Ō2NL and PP2Ō projects?

Waka Kotahi response



The table below provides annual average daily traffic flows through this part of the network at 2019, and at 2039 with the \bar{O} 2NL Project and without the Project (Do Min):

Location	Current (2019)	2039 Do Min	2039 with Ō2NL
SH1 south of Taylors Road	16,700	23,900	27,400
Current SH1 south of Mill	19,300	6,000	6,200
Mill Road	5,900	9,000	9,600

The modelling shows that there is very little change to traffic volumes in and around Ōtaki as a result of the scheme.

We have not modelled active mode numbers along the corridor but the shared use path is estimated to attract 150-200 trips per day on the opening year 2029/2030 and 200-250 by 2039.

Refer to Geometrics Plans (including typical sections) and also section 3.6 of the Design and Construction Report (DCR) (provided as Appendix Four to Volume II) for intended outcomes for the proposed Shared Use Path (SUP). The DCR explains that the SUP will be designed with reference to the Austroads Guides for walking and cycling and is expected to be fully sealed and the width will generally be a minimum of 3.0m wide plus 0.5m buffer strip. When using the shoulder of the existing SH1, the path will be appropriately separated from traffic.

119. KCDC

Could the Applicant please provide details for the cross section and configuration of the proposed shared path south of the Pukehou Rail Overbridge and the standard of the shared path and describe how it will be consistent with the KCDC Cycleways, Walkways and Bridleways Strategy?

No.	Jurisdiction	Information requested	Waka Kotahi response
			There are no other current or planned cycleways in the KCDC cycle map (<u>kapiti-coast-cycle-map-2022.pdf</u>) for the proposed SUP to tie into. The KCDC CWB strategy is no longer available on the Council website and may have been replaced by the Sustainable Transport Strategy (March 2022).
120.	KCDC	The Final Technical Assessment A – Transport (paragraph 32) suggests that a detailed construction methodology will be provided with a Construction Traffic Management Plan (CTMP). Some further information is provided at paragraphs 282 – 300. Could the Applicant please provide more detailed access plans and a draft CTMP as part of the application material?	As set out in respect to request 113, the proposed designation Conditions require the preparation of a Construction Traffic Management Plan (CTMP) and the objective and the content of the plan are specified in Schedule 2 (to the proposed Conditions). The CTMP will amongst other things include the location and management of site access routes and access points for heavy vehicles. The CTMP will be provided as part of the Outline Plan process, which will also confirm the design of the Project and its construction methodology.
121.	KCDC	 Volume III 01 - General Plan Set contains limited detail on the layout of the Active Modes cross section and design, specifically: a. Integration plan with Ötaki and the PP2Ö Shared Path b. Cross section south of the Pukehou Rail Bridge to avoid it being hard up against the existing state highway. c. Connections from the shared path to local roads e.g. Forest Lakes Road Could the Applicant please provide this detail? 	 a. The Ö2NL Project Shared Use Path (SUP) is intended to connect directly onto the end of the PP2Ö shared use path. The design of the SUP and the intended connection with the PP2Ö shared use path will be confirmed through the outline plan process. b. Please refer to response to request 119. The design of the SUP and the relationship with the existing state highway will be confirmed through the outline plan process. c. The scope of the SUP and how it connects to the local road network is as shown on the Drawings provided in Volume III and does not include connections across the existing state highway to Forest Lakes Road for example. Please also refer to the response to request 119 that refers to where information on the intended SUP design standards can be found in the notice of requirement documentation.
122.	KCDC	Could the Applicant explain how road user legibility and understanding for Ōtaki has been addressed from a legibility and transport user perspective given there are	The Ō2NL Project is not making any changes to how Ōtaki is accessed from the highway network (and the recently completed PP2Ō Project). Please refer to response to request 118. The proposed southern interchange will allow road users from Forest Lakes / Manakau heading to and from Otaki / Wellington onto the state highway network.

No.	Jurisdiction	Information requested	Waka Kotahi response
		3 interchanges within 3.5km of each other?	The SUP will provide access to the current road and the PP2Ō SUP. The detailed design of the Ō2NL Project including signs will be confirmed through the outline plan process.
Lands	cape and Visua	I	
123.	HDC and KCDC	The Final Technical Assessment J - Terrestrial Ecology, Appendix J.1, refers to properties with a numerical ID, however there is no table or plan provided that links the numerical ID to a specific property address. Could the Applicant please provide either a plan or table? The Technical Assessment D - Landscape Visual and Natural Character has a table of properties using the Stantec ID number (refer Appendix D.3 Visual Effects pgs. 127-215). Could the Applicant please clarify if the Stantec ID number is the same as the numerical number that is referred to in the Terrestrial Ecology Technical Assessment?	The property identifiers (including Stantec ID numbers) should be the same as used and shown on the Land Requirement Plans and described in the Land Requirement Schedule, both of which are provided in Volume III.
124.	HDC and KCDC	Could the Applicant please explain how the Councils will be involved in the Design Audit process from a stakeholder perspective, as described in section 4.1 CEDF?	As set out in proposed conditions DTW5 and DGA6(c).ii. Design Review Audits will be carried out prior to construction and every three months during the construction period. They will be made available to the Councils on request. The pre-construction Design Review Audit will be provided to Councils as part of the outline plan process.
125.	HDC and KCDC	While condition DLV1 requires the implementation of the landscaping planting shown on the Planting Concept Plans, could the Applicant please advise what the process they propose to be used to certify or amend the planting Concept Plans (e.g. a similar approach as proposed in	Landscape plans will be included in the outline plan submitted to Councils as required by section176A(3)(e) of the RMA. The Councils can request changes to the landscape plans through the outline plan process. Once the outline plan is confirmed, any subsequent changes to the landscape plans would need to be authorised as an amendment to the outline plan, and subject to the same process.

Waka Kotahi response

conditions REM2 & REM3 for the Ecology Management Plan for Regional Councils?

Condition DLV1 addresses

126. HDC and KCDC

Landscape Planting. DLV1 b) states that: Landscape planting must be implemented, maintained, monitored and replaced to achieve a 90% survival rate at five (5) years following the date that initial planting commenced;

Could the Applicant please comment on whether a percentage canopy cover rather than a percentage of plant survival would be a better tool for measuring planting success at the time of Final Completion? For example, if a mass plant failure occurred in Year 4 after planting, and replacement using small grade plants occurred, does it consider this as satisfying the 90% survival rate where the aim in terms of planting success is to create a selfsustaining plant community that is sufficiently established to shade and fend off weed species?

It is agreed that canopy coverage be added to condition DLV1, as follows:

"b) Landscape planting must be implemented, maintained, monitored and replaced to achieve a 90% survival rate <u>and 80% canopy coverage of the ground</u> at five (5) years..."

This approach is consistent with Waka Kotahi P39 Specification section G Planting, which requires:

- No greater than 10% loss for grades less than 15lt/PB28 (i.e. most plants); and
- No loss for plants over 15lt/PB28 (i.e. specimen trees, street trees); and
- 80% canopy coverage of the ground

An updated suite of conditions will be provided through the ensuing processing phases.

127. HDC and KCDC

Could the Applicant please comment on the consistency of the proposed conditions across Ecological and Landscape conditions in terms of post installation maintenance and management regimes and the criteria for measuring planting success?

Could the Applicant please

comment on how weed

Standards have been derived in response to effects. So for example the planting standards in proposed condition DLV1 (which relates to visual and general landscaping) differ from the standards in proposed condition REM13, which relates to ecological offsetting.

The standards for landscaping are Waka Kotahi P39 Specification section G Planting referred to in response to request 126.

The standards derived for the ecological offsetting are based on the Biodiversity Offset Accounting Model which has specific requirements as explained in Technical Assessment J (Terrestrial Ecology).

128. HDC and KCDC Methodologies for pest plant control within ecological mitigation and offsetting sites will be detailed in the

No.	Jurisdiction	Information requested	Waka Kotahi response
		infestation in the rehabilitation, restoration and landscape plantings, particularly where they adjoin ecological mitigation and off-setting sites, is to be managed and how this is addressed in consent conditions?	Ecological Management Plan (EMP), as required by proposed resource consent condition REM1, and as described in Schedule 7 to the proposed Conditions. This will, in summary, describe the distribution and abundance of all pest plant species. Control methodologies will then be devised based on the type and size of pest plant infestations present. Timelines for initial pest plant control, site preparation, planting, and post-planting maintenance and monitoring will be supplied. No specific weed controls are proposed in the rehabilitation, restoration and landscape planting areas, and this would occur as necessary to meet the maintenance and management standards in proposed condition DLV1. Specific actions as provided for in the EMP may be undertaken in these planting areas to ensure that standards in REM12 are achieved.
129.	HDC and KCDC	Could the Applicant please comment on how pests and weeds on Waka Kotahi land that lies outside the designation that potentially will lie idle /not farmed until practical completion of the works will be controlled?	Most areas of property located outside of the designation are expected to be continued to be used as they are today. Weed and animal pest control would be undertaken as part of any standard property management practice.
Econo	mics		
130.	HDC and KCDC	The Final Technical Assessment O - Economics and Town Centre Impacts does not consider or assess the effects of points of access and egress on Ōtaki businesses. Could the Applicant please provide an assessment of the economic effects of the north of Ōtaki interchange on the Ōtaki town centre?	An assessment of the economic effects of the Ō2NL Project on the retail strip on state highway through Ōtaki (and on the Ōtaki town centre) is provided in Technical Assessment O (Volume IV), at paragraphs 20 and 78. This assessment assumes that the north of Ōtaki interchange is in place. Please note that the PP2Ō Expressway (now open) means that through traffic can bypass this retail strip through Ōtaki.
131.	HDC and KCDC	The north of Ōtaki interchange does not provide direct access to the communities of Manakau or Ohau and the Final Technical Assessment O - Economics and Town Centre Impacts does not consider alternative alignment options and the	Details of options considered and assessed (using multi- criteria analysis) and then how a preferred option was selected is described in Part E of the Supporting Information and Assessment of Effects on the Environment Report (Volume II). The option assessments considered impacts on the transport network in terms of the varying scale of safety and efficiency benefits which, in turn, form the basis for economic benefit.

economic effects that alternatives may present in relation to growing the local communities of Manakau and Ohau, provide more resources locally and reduce trips and trip distances that alternatives which enabling direct access would provide. Could the Applicant please provide an assessment of alternative alignment options and the economic effects of alternatives on the local communities of Manakau and Ohau?

Waka Kotahi response

Socio-economic effects, way of life and community cohesion aspects were specifically considered as part of the corridor selection process and are summarised on pages 119 – 121 of the Indicative Business Case (December 2018) and described in detail in Appendix E to that report. Refer: <u>Technical reports | Waka</u> Kotahi NZ Transport Agency (nzta.govt.nz)

132. HDC and KCDC Could the Applicant please explain how the O2NL interchange at Taylors Rd, north of Ōtaki optimise the economic and social capacity of Ōtaki and Manakau?

133. HDC and The economic effects of KCDC O2NL on Tara-Ika and the economic role of Tara-Ika in relation to Levin/Horowhenua are not covered within the Final Technical Assessment O -Economics and Town Centre Impacts, which only considers global issues concerning Levin/Horowhenua and those relating to the existing town. Could the Applicant please provide an assessment of the economic effects of

O2NL on the Tara-Ika

growth area?

The Ō2NL Project retains the existing social and economic capacity of Ōtaki and Manakau by retaining existing connections via the existing state highway and local roads. The removal of traffic from the current state highway to the Ō2NL Project will provide safety and journey time reliability benefits for users who continue to use the old state highway. New interchanges to the north of Ōtaki and at Levin provide improved connections to the region.

The Horowhenua District Council are part way through a Plan Change process that relates to the Tara-Ika growth area. This plan change (HDC PC4) seeks to enable development in the Tara-Ika growth area, and is currently subject to an Environment Court appeals process (refer to section 9.5.4.3 of the Supporting Information and Assessment of Effects on the Environment report (Volume II)). As far as Waka Kotahi understands, no resource consents have been granted that would enable large-scale development at Tara-Ika. As such, largescale development at Tara-Ika does not form part of the existing environment in respect of the O2NL Project notices of requirement. Accordingly, no assessment of effects on that development is required. However the O2NL Project has been designed on basis that urban development is planned to occur at Tara-Ika in the future by for example proposing low noise road surfacing. That said, as discussed in Technical Assessment A, the O2NL Project provides capacity in the transport network that is needed to realise the full extent of Tara-Ika. Therefore, the O2NL Project will have a significant positive 'enabling' impact on the Tara-Ika development.

134. HDC and Could the Applicant please KCDC explain what the community connectivity impacts and

See response to request 133 in terms of effects on Tara-Ika.

No.	Jurisdiction	Information requested	Waka Kotahi response
		associated economic effects of providing connections only at Queen Street East and Tararua Road on Tara- Ika and the eastern part of Levin are, including between Tara-Ika and Waiopehu College?	The Ō2NL Project does not preclude the development of additional east west links between Tara-Ika development area and Levin. These links as well as the Ō2NL Project are depicted on the Tara-Ika Structure Plan and are to be brought forward by developers of the Tara-Ika development area, as required to support the Tara-Ika development.
135.	HDC and KCDC	Could the Applicant please explain why/how it considers that not providing the local connections over the 2km wide extent of the interface between Tara-Ika aligns is consistent with the Project Objectives (as set out in Volume II, Part A s.4.6) and the various documents listed in s.1.4 of the CEDF (pgs 16 & 17), in relation to addressing community connectivity, severance, economic, social and environmental sustainability?	One of the Ö2NL Project objectives is to 'provide appropriate connections that integrate the state highway and the local road network to serve urban areas'. Further to the responses to requests 133 and 134, it is acknowledged that Tara-Ika is a planned urban area that does not form part of the existing environment or have a road network. The precise form of Tara-Ika urban area and network is not yet known and is subject to future planning and resource consent processes. The phasing of the development is not defined and initial phases will not, and later phases ultimately may, require additional connections to be provided. The Õ2NL Project proposed to reconnect existing local roads across the new state highway (Queen Street East and Tararua Road) and as part of these to include new walking and cycling facilities. These together with a new interchange on Tararua Road will support the Tara-Ika development.
136.	HDC and KCDC	Could the Applicant please provide the empirical information to demonstrate the social, economic and environmental sustainability impacts of the proposed approach to connections at Tara-Ika and how that relates to the cross connections and urban form proposed in the Tara-Ika Structure Plan?	In addition to the responses to requests 133 and 134, the Ō2NL Project sustains the connection of the existing environment and the social sustainability of the community, it provides ability to connect to these existing links and does not preclude a new connection being provided in the future for a future community.
Urban	Design		
137.	HDC and KCDC	Could the Applicant please explain why/how, in omitting to provide the connections	The CEDF principles listed apply to how the Ō2NL Project design is to be advanced and are not intended to apply to development being advanced by others.

explain why/how, in omitting to provide the connections illustrated by the Tara-Ika Plan Change 4 Structure Plan, the proposal is or can be consistent with the Waka Kotahi Design Principles described at page 10 of the CEDF, specifically, and in The CEDF principles listed apply to how the Ō2NL Project design is to be advanced and are not intended to apply to development being advanced by others. Waka Kotahi through page 10 of the CEDF supports the development of future connections at Tara-Ika in conjunction with the future development of the Tara-Ika growth area. As explained above in response to Request #134 these links are to be brought forward by the developer of Tara-Ika as and when they are required

No.	Jurisdiction	Information requested	Waka Kotahi response
		relation to the omission of east-west connections located between Queen Street East and Tararua Road, how the proposal fully and optimally follows the first six of these design principles, in particular Principles 2,3,5 and 6?	by the Tara-Ika development. The Ō2NL Project does not preclude such connections. Also see response to request 133.
138.	HDC and KCDC	Could the Applicant please explain how O2NL, by treating the planned rezoning and urban growth provided for by Plan Change 4 at Tara-Ika as not part of the existing environment, addresses and meets the following project objective: 'to provide appropriate connections that integrate the state highway and local road network to serve urban areas" (refer AEE Volume II, Part A, p23)?	See responses to request 133 and 135.
139.	HDC and KCDC	Could the Applicant please explain what the social and urban design effects would be from the East-West Arterial not being established once O2NL is constructed, including on delivery of the outcomes anticipated and provided for by Plan Change 4 Tara-Ika?	As explained above (responses to requests 133 and 135) the Ö2NL Project does not preclude a connection being provided in conjunction with the future development of Tara-Ika. The hypothetical effects of not providing such a future connection would need to be addressed by that development and are beyond the scope of this notice of requirement.
140.	HDC and KCDC	Could the Applicant please explain how the 'Project Shared Use Path and Possible Future Connections – Indicative, not part of Ō2NL Project' diagram (CEDF page 128) provide for the potential for connections to the strategic cycleways that are included in the Tara-Ika Plan Change 4 Structure Plan?	See responses to request 133 and 135. Page 128 of the CEDF notes that other developments may in the future provide additional walking and cycling facilities. Where these have been developed and interface with the Shared Use Path (SUP) proposed by the Ö2NL Project then they can be joined to the SUP at that time by the developer. The SUP has been located on the eastern side of the proposed Ö2NL Project state highway in response to Horowhenua District Council request that it be located on the eastern side so that it may form part of the Tara-Ika walking and cycling network (refer to Table 3-5 on page 15 of the Design and Construction Report, provided as Appendix Four to Volume II).

No.	Jurisdiction	Information requested	Waka Kotahi response
141.	HDC and KCDC	The AEE Vol II, Part A, page 19 states: "Waka Kotahi will continue both through statutory planning processes but also through future integrated master planning processes and the improvement programme to work with stakeholders to achieve the sustainable urban access critical to reducing enabled emissions." Could the Applicant please explain how matters of connection, severance and emissions will be achieved and how the proposal is consistent with this statement?	See responses to request 133, 135 and 140. The reference on page 19 relates to broader Waka Kotahi responsibilities rather than what is achieved through the Ō2NL Project. They reflect an overall approach of working with councils to integrate urban planning and transport planning to help reduce enabled emissions. The connections provided by the Ō2NL Project are described in sections 3.6.and 3.13 of the Design and Construction Report (Appendix Four to Volume II) and the social effects of the Project (including severance) are assessed in Technical Assessment E (Social Impact Assessment) provided in Volume IV. The Ō2NL Project includes a shared use path and walking and cycling facilities are provided on local roads that are re- connected across the new state highway. This approach promotes multi-modal access opportunities and aligns with sustainable urban access objectives.
142.	HDC and KCDC	Could the Applicant also please explain the impact on enabled CO ₂ emissions for the foreseeable future in allowing for movement between the 3500+ houses at Tara-Ika and Levin relative to the impact if the connections were to be provided?	See response to request 104 and 139. The impact of the Tara-Ika development are matters that need to be addressed by the developers of the Tara-Ika development noting that the Ō2NL Project does not preclude additional connections from being provided, consistent with the Tara-Ika Structure Plan.
143.	HDC and KCDC	The Final Technical Assessment A-Transport notes at paras 102-105 that the Ō2NL Project is consistent with the HDC District Plan and "has strong alignment with transport policy at regional and national level." Could the Applicant please explain how this comment considers the Tara-Ika Plan Change and the effects of Ō2NL on that area, in particular the east-west connections to and from Tara-Ika, including provision for convenient walking and cycling using planned strategic cycleways.	See response to request 104, 133, 134, 135 and 141.

No.	Jurisdiction	Information requested	Waka Kotahi response
144.	HDC and KCDC	The Final Technical Assessment A-Transport notes at para 206: "Severance can be created when a road acts as, or feels like, a barrier to movement. This tends to be because people feel unsafe crossing the road If people do not make journeys they would like to, this has negative consequences at both social and economic levels." While this comment specifically refers to at-grade crossing, could the Applicant please how this principle applies to the Tara-Ika growth area and its relation to Levin, and what the precise magnitude of the negative consequences of absence of crossing are?	See response to request 104, 133, 134, 135 and 141.
145.	HDC and KCDC	Final Technical Assessment A-Transport at Figure A.27 shows a diagram describing "2039 Induced and Suppressed Trips in Levin" which shows a connection over the Ō2NL from Tara-Ika on and connecting to Arapaepae Road on the alignment of Liverpool Street, which is inconsistent with the General Arrangement Plans in Volume II-02. Could the Applicant please explain how the induced traffic analysis would change if that connection across the Ō2NL were to be excluded?	If the East West Arterial was excluded, then traffic is anticipated to disperse to Tararua Road and Queen Street East. This is a slightly longer journey for some road users and so there would be a potential for a slight reduction in car travel.
146.	HDC and KCDC	In relation to implementing the CEDF could the Applicant please explain: (a) what is the full process of the Design Review Audit including appointment of suitably	 a) The Design Review Audit is expected to be led by the Project's CEDF authors / team who will draw upon technical experts (as required). The expectation is that our iwi partners will form part of the CEDF authors / team. b) See response to request 124.

No.	Jurisdiction	Information requested	Waka Kotahi response
		qualified person(s) to cover all elements covered by Chapter 4 of the CEDF? (b) what is the scope for questioning and/or comment and/or possibly certification by the District Council of any Design Review Audit?	
147.	HDC and KCDC	Could the Applicant please describe how the project relates to HDC's Tara-Ika urban growth area as per HDC's Plan Change 4, including the road and pedestrian and cycle connections that are part of that plan change?	The relationship of the Ō2NL Project with Tara-Ika is described in the Supporting Document and Assessment of Effects on the Environment Report (Volume II) in Part A, Part B (sections 7, 9.1, 9.3, and 9.4), Part D (section 18) and Part E.
148.	HDC and KCDC	Could the Applicant please explain how Ō2NL in relation to Tara-Ika responds to the existing traffic network and its problems as discussed by Technical Assessment A- Transport (para 206) to meet the identified Project objectives, which include "To provide appropriate connections that integrate the state highway and local road network to serve urban areas."	See response to request 135.
149.	HDC and KCDC	Could the Applicant please comment on the following photo simulations contained in Volume III Section 10- Photo Simulations: (a) the state of completion of rendition of the proposed planting at Viewpoint 4 in the Queen Street East over-bridge as this currently does not include the proposed tree stands nor the 'tree avenue' described in the 09-Planting drawing for this area. (b) Viewpoint 14 appears to not show the	The photo simulations do not depict all planting so as to not unnecessarily obscure the Ō2NL Project proposed state highway or existing vegetation (relevant particularly to VP4 where existing vegetation screens the Prouse homestead/ Ashleigh). All proposed planting areas are shown on the Planting Concept Plans provided in Volume III. What is shown and not shown is described below, to assist: a) VP4 - The planting shown represents conservative growth rates at approximately Year 5. The proposed taller planting that would be in the foreground of this image (which comprises a combination of ecological offset planting, the avenue of trees along the western boundary of the Prouse property, and proposed groups of trees on the Queen Street East bridge embankment) has not been shown in the photo simulations.

No.	Jurisdiction	Information requested	Waka Kotahi response
		planned tree clusters. (The purpose of the yellow lines to describe intervening planting is understood. However, the cluster planting described on the landscape drawings ideally would be included to ensure consistency.)	b) VP14 - Planting shown represents conservative growth rates at approximately Year 5. Proposed taller planting in the foreground of this image which comprises a combination of ecology offset planting and the proposed groups of trees on the embankments has not been shown in the photo simulations.
Terres	trial and Fresh	water Ecology	
150.	HDC and KCDC	Throughout Technical Assessments J and K, property identifiers are used, however there appears to be no table/reference map which shows the property identifications. Could the Applicant please provide a property identification reference map as part of the drawing set or as part of these Technical Assessments?	The property identifiers used should be the same as those used and shown on the Land Requirement Plans and described in the Land Requirement Schedule, both of which are provided in Volume III.
151.	HDC and KCDC	Proposed condition REM12 outlines performance targets relating to planting implementation and management. Could the Applicant please clarify the difference between enrichment and replacement planting, which appear to be used interchangeably in this condition?	In condition REM-12, under Terrestrial offset and enhancement planting, 'enrichment plants' refer to mature phase species that will be planted at least three years after the revegetation species have been planted (by which time sufficient shelter is provided). These species include titoki, kohekohe, hinau, and totara. Replacement trees refers to planting (mature phase species) within existing habitats such as Arapaepae Bush, where they can be regarded as enrichment or enhancement species, in that they will over time help to improve floristic diversity and structure.
152.	HDC and KCDC	The accepted methodology for long-tailed bat surveys includes surveys in spring/early summer (for breeding females and depend young) and later summer/autumn (for juvenile range establishment and adult mating). Could the Applicant please explain the rationale for undertaking a single ABM deployment for bat	In our opinion, the general paucity of bat roost habitat within the Project footprint, together with an absence of bat records west of the Tararua Range, precluded the need for a follow-up bat survey.

Waka Kotahi response

monitoring during bat active period?

HDC and Proposed condition RTE7 KCDC outlines the requirements relating to the provision of indigenous buffer planting. The proposed timing of the planting under b)ii) specifies that buffer planting be undertaken before the end of the first planting season following the Project being open to the public. Could the Applicant please clarify and confirm the timing of the buffer planting because this appears to be inconsistent with the recommendations of Technical Assessment J (paragraph 207 (d) and (e), pg 63) where buffer planting is identified as a mitigation measure for potential dust deposition, which can occur during construction?

Condition RTE7 will be modified to require buffer planting to be undertaken in advance of construction occurring where practicable.

In some instances buffer planting may not be able to be undertaken in advance due to lack of access to property, or due to construction phasing requirements, noting that planting should not occur during summer.

154. HDC and KCDC

153.

Proposed conditions RTE2 e) and RTE3 e) could be interpreted in its current form that if an active nest is found subsequently to work starting that activity can continue inside of 50m exclusion zone if activity doesn't cause nest failure. Could the Applicant please clarify whether a 50m exclusion zone will be established in the event of nest identified by Condition RTE2/3 d) consistent with the methodology in RTE2/3 b) and e)?

Both conditions state that 'where an active nesting site is identified by a monthly survey works may continue subject to a suitably qualified person or persons confirming that the works will not cause the next to fail.' There is no reference to 50m radius exclusion zones and these do not apply. The suitably qualified person may conclude that such a zone needs to be established or that works do not effect a nest that has established whilst that work was underway.

Noise and Vibration

155. HDC and KCDC The Final Technical Assessment B – Noise and Vibration presents several differing ranges of noise criteria. For operational For this technical assessment "reasonable noise" has been taken in the context of the construction of a major piece of infrastructure, and as guided by the identified performance standards – see paragraphs 67 onwards. This is consistent with NZS 6806 which provides three

No.	Jurisdiction	Information requested	Waka Kotahi response
		traffic noise, these include criteria based on NZS 6806:2010, WHO guidelines, and subjective response criteria based on UK planning guidance. Could the Applicant please explain what noise criteria have been selected as guidance to what is "reasonable"?	different categories, with differing outcomes to residents, but all may be "reasonable" based on engineering / geographic constraints, and local context. For the Ō2NL Project, as set out in Table B.26, compliance with NZS 6806 Categories and comparison with WHO Guidelines were considered as evaluation factors for mitigation design. The assessment of residual effects considers compliance with NZS 6806 categories, comparison with WHO guidelines, and likely subjective response separately, rather than deriving a single criteria for reasonable/unreasonable.
156.	HDC and KCDC	At Paragraph 20 of the Final Technical Assessment B – Noise and Vibration the first sentence notes that the operational noise levels will be reasonable. However, the following sentence notes that for some receivers, the operational noise "may be disruptive, or very disruptive, or very disruptive". These two sentences appear to be contradictory. Could the Applicant please explain this contradiction and what noise criteria has been used to make this assessment?	 Paragraphs 71 and 86 of the Technical Assessment B (Noise) explain that the terms 'disruptive' and 'very disruptive' are derived from the UK planning framework. Paragraph 343 explain that 'disruptive' and 'very disruptive' effects generally correlate to Category B PPFs (as per NZS6806). Paragraphs 18 and 19 of Technical Assessment B (Noise) explain that the operational noise from Project may mean that in some instances residents change how they use their property. This may mean that residents change the location of where they undertake some of their activities on their property to inside or on a sheltered aspect. Other activities may be avoided or undertaken less frequently. This is consistent with expectations for Category B (and C) PPFs (as per NZS6806), where little outdoor amenity can be expected on areas directly exposed to road-traffic noise. While not desirable, as discussed above in Response #155, these effects may still be and are considered to be reasonable in the context of a project of this scale.
157.	HDC and KCDC	At Paragraph 45 of the Final Technical Assessment B – Noise and Vibration, no reference has been provided for the research referred to, regarding New Zealanders exposed to road traffic noise. Could the Applicant please provide the relevant reference to the document for this research?	These figures are from the AECOM National Land Transport (Road) Noise Map 2019 Project Report which are available at: https://nzta.govt.nz/assets/Highways- Information-Portal/Technical-disciplines/Noise-and- vibration/Research-and-information/Other- research/national-land-transport-road-noise-map-2019- 05-16.pdf
158.	HDC and	There appear to be some	The annual average "Existing" noise level has been

KCDC anomalies between the

The annual average "Existing" noise level has been included in Appendix B4. These have been estimated on

information provided in Table B.12 and the same information set out in Appendix B4 of the Final Technical Assessment B -Noise and Vibration. For instance, Table B.12 shows that the current noise level at 47 Sorenson Road is estimated to range between 45 and 50 dB LAeq(24h) whereas Appendix B4 states that the range is 50 to 55 dB LAeq(24h). This type of anomaly between the two sections of the report occurs for a number of assessment locations

Could the Applicant please explain why is there a difference in current noise level estimates in Table B.12 and Appendix B4?

159. HDC and KCDC At Paragraph 167 of the Final Technical Assessment B – Noise and Vibration, the current ambient noise levels in the area of Sorensons Road are reported as 45 to 55 dB LAeg(15 min) (15 min) during the day, and 35 to 45 dB LAeq(15 min) (15 min) at night. The next sentence concludes that the 24 hour sound level in this vicinity has been estimated as 50 to 55 dB LAeq(15 min) (24h). Could the Applicant please

explain how this conclusion was reached?

160.HDC and
KCDCAt Paragraph 223 the Final
Technical Assessment B –
Noise and Vibration notes
that the noise from the road
milling has not been
considered in the
assessment, due to it being
a short-term activity.Millin
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Waka Kotahi response

an area-wide basis, without differentiation between PPFs based on vegetation cover and localised noise sources. These estimates have been prepared to assist in understanding what future noise levels might sound like.

There are some differences with the measured shortterm levels reported in Table B.12, which are at specific locations, and based on conditions with little wind. The estimated $L_{Aeq(24h)}$ from measurements is discussed in response to Request #159.

The estimate of the annual average on an area basis is considered appropriate, informed by measurements and observations. As shown in Figure B.6, there is significant variation in the LAeq(24h) and undue weighting on a 15-minute measurement is not considered appropriate.

As the measurements were only 15 minute snapshots of the day and night, during relatively calm conditions, it is anticipated that there will be also be some "loud" noise events outside of the measurement window. These events would increase the $L_{Aeq(24h)}$ slightly above what would be calculated using the 2x15min values alone. Due to the energy averaging process, unobserved high noise periods would have greater effect on the $L_{Aeq(24h)}$ than unobserved quiet periods.

Therefore, the stated $L_{Aeq(24h)}$ ranges are considered appropriate for this location and for their purpose.

Milling as part of resurfacing may be required either to transition between two road surfaces, or to reduce the ground levels and is work that is anticipated as being needed to tie-in (or join) the new state highway with the existing state highway.

Paragraph 223 of Technical Assessment B (Noise) explains that milling at tie-ins is an activity that is anticipated to take hours (not days) and is likely to occur at night (although it may not). Due to the short duration the specific effects are not measured but are proposed to

Road milling machines typically have a sound power level of around LWA 110 dB and the activity is scheduled to occur at night times, therefore could the Applicant please address the noise effects of nighttime road milling in the construction noise assessment?

Waka Kotahi response

be managed. The proposed conditions (provided as Appendix Five to Volume II) requires the preparation of a Construction Noise and Vibration Management Plan. The content of this management plan is provided in Schedule 2 of Appendix Five and item (h) states that where noise is predicted to be exceeded, a schedule will set out mitigation and controls to minimise effects as far as reasonably practicable. This means that milling work (if undertaken at night) will be subject to this process. This Schedule process is described in paragraphs 310 and 311 of Technical Assessment B (Noise).

161.	HDC and KCDC	There are two Figures provided which illustrate the location and type of proposed operational noise mitigation, being Figure B.29 of Final Technical Assessment B – Noise and Vibration and Figure 42-4 of "Volume II Supporting Information and Assessment of Effects on the Environment. Could the Applicant please confirm which Figure should be relied on as they are different in terms of level of detail provided?	Figure B.29 provides a pictorial summary of the noise treatment design for the Project as a whole. The Councils should refer to the extent of surfaces and barriers as shown on the noise drawings provided in Volume III (refer to figures NV201-218). Proposed conditions DRN1, DRN2 and DRN3 deal with operational noise and noise barriers and these do not refer to these drawings. These conditions set out the extent of mitigation required by chainage and specifically DRN3 requires the extent of mitigation that is proposed be confirmed as part of the s.176A Outline Plan process (as per condition DG3).
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Water Quality

162. HDC and

KCDC

Could the Applicant please explain how the National Policy Statements – Fresh Water (NPSFW), Regional Policy Statements and district plan requirements related to water quality are addressed in the proposed designation conditions such that they fulfil the territorial authority obligations under these instruments? The proposed designation conditions manage land use effects as regulated by the district plans. That reflects s.176(1)(a) of the RMA, which provides that once a designation is included in a district plan, s.9(3) does not apply to the project subject to the designation.

The conditions that address water quality matters are proposed to apply to the various discharge consents and water permits required for the Project works from the respective regional councils. Accordingly, the designation conditions do not address water quality matters.

This differentiation of functions is recognised in Chapter 11 of the Horowhenua District Plan where it states that:

"...given the framework of the law, many of the methods that have been identified for dealing with water issues involve actions by Horizons Regional Council, as set out in the One Plan, whose functions enable it to have more direct influence over activities involving water. It should be noted that the "water" issue below is principally concerned with the land use effects on water and the surface of the water. It is acknowledged that Horizons

No.	Jurisdiction	Information requested	Waka Kotahi response
			Regional Council is principally responsible for the quality and quantity of water within Horowhenua." The obligations of the territorial authorities with regards to the proposed designation conditions is to assess them in terms of their legality and effectiveness in managing the relevant adverse effects of the Project, and to recommend changes to Waka Kotahi as the Requiring Authority. A full assessment of the Project against the relevant provisions of the NPS-FM, the respective RPS's, and the respective Operative and Proposed District Plan's is provided in Part I of the AEE.
163.	HDC and KCDC	The KCDC District plan, Policy INF Gen P4 calls for the use of adaptive management measures. Could the Applicant please clarify how this adaptive approach has been incorporated into the mitigation measures proposed to manage water quality effects?	Policy INF Gen P4 (clause e) requires adaptive management measures to be implemented where uncertainty may exist around impacts over time. In this case, the water quality mitigation measures proposed are based on significant experience on other similar projects across New Zealand. The receiving environments and their characteristics are well understood as are the nature of the Project activities that require consent. On that basis, there is no uncertainty around what impacts the Project activities may have over time and an adaptive management approach is not required in terms of clause e) of the policy.
164.	HDC and KCDC	The CEMP requirements as required by the designation conditions do not appear to be connected to the CEMP required by the resource consent conditions. The designation conditions are silent on the matter of minimizing and managing erosion. Could the Applicant please clarify how the requirements of the territorial authorities under the relevant national, regional and district policies and objectives and in relation to erosion are captured in the conditions for this application and how the CEMP will be prepared and approved to address both district and regional requirements?	 Refer to response to request 162. The approach to managing effects is provided in Part H of the Supporting Information and Assessment of Effects on the Environment (provided in Volume II). Relevant sections include: Sections 59.2 and 59.3 describe the approach and process proposed for management plans. An explanation as to content is provided in section 59.2.2 and the proposed approval processes (which councils) are in section 59.3. Section 60 provides information on the measures to manage effects and specifically the role of management plans in implementing those measures. Section 61 summarises the effects that are managed by the designation and the resource consent conditions.
165.	HDC and KCDC	Technical Assessment H - Water Quality recommends instream water quality	Refer to response to Request #162, which explains that water quality is managed through the regional consent applications and conditions.

monitoring upstream and downstream of the construction zone to determine the water quality effects of the project. Could the Applicant please clarify how this is captured in the conditions?

166. HDC and KCDC

Technical Assessment H -Water Quality outlines the methodology used to estimate concentrations contaminants in the receiving environment during construction. These are based on current TSS values in the stream which are increased on a pro-rata fashion based on a % increase in sediment generation for the contributing catchment. Given this is the case, could the Applicant please explain how we can be confident that the concentrations estimated are accurate enough to enable acute effects during rain fall events to be adequately assessed and how will the predicted 40% change in catchment D which exceeds the One Plan target will be minimised?

167. HDC and KCDC

The Design and Construction Report recognizes that higher intensity rainfall events have the potential to increase the volume and sediment load discharged from sediment control devices and has set trigger events above which more significant outflows from sediment control devices are likely to occur. Could the Applicant please clarify how these events affect downstream water quality in the receiving

environment and how do the

Waka Kotahi response

Conditions in respect of water quality monitoring and erosion and sediment control are proposed in Appendix Five of Volume II. Refer to for example RFE4, RGW2 & 3, RES1-10 and RWB2.

Refer to response to Request #162, which explains that water quality is managed through the regional consent applications and conditions.

The Erosion and Sediment Control Technical Report (provided as Appendix 4.3 to Appendix Four in Volume II) provides details of the sediment yield estimates (refer page 24 to 31) and includes an explanation as where estimation has been used on previous projects, that USLE significantly over estimated actual yields (paragraph 119) and thence the confidence that can be taken from the available prediction tools.

Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions.

The Erosion and Sediment Control Technical Report (provided as Appendix 4.3 to Appendix Four in Volume II) describes the proposed management approach. The outputs from this report inform Technical Assessment H (Water Quality) and in turn informs Technical Assessment K (Freshwater Ecology). The development of the proposed erosion and sediment control was iterative in response to outputs and response from Technical Assessments H and K (as well as Assessment J).

The approach is then provided for in the proposed resource consent conditions provided in Appendix Five to Volume II.

Waka Kotahi response

mitigation measures proposed respond to this increased risk of adverse water quality effects in high intensity rain fall events and appropriately minimise them?

168. HDC and KCDC

The operational estimates of contaminant concentrations in the receiving environment are based on an average annual rainfall depth. Runoff and entrainment of contaminants tends to be worse during high intensity rain fall events.

Could the Applicant please clarify how the shorter term, potentially acute effects resulting from such events have been addressed and shown to be appropriately minimised? Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions.

The operation of the stormwater treatment devices is described in Appendix 4.2 which is provided with the Design and Construction Report (Appendix Four to Volume II).

In terms of water quality treatment of rainfall runoff, the "first flush" volumes will go through the treatment train of swales and constructed wetland before release into the receiving environment. The lengths of the swales are long and with a flat gradient, meaning a long residence time for water in the swales. After swale treatment, flows pass into the forebay and constructed wetland volumes for further treatment by settlement, biofiltration and vegetated uptake. The storage volumes are large compared to short duration, high intensity rainfall volumes and so water spends a long time inside the constructed wetlands. This means that the "first flush" from high intensity, short duration rainfall is treated through the treatment train of swale and constructed wetland – minimising the effects of road contaminants reaching beyond the constructed wetland facilities.

169. HDC and The extent of earthworks will KCDC not be uniform across the construction period. Could the Applicant please explain when peak earthworks will occur and how does the USLE and recommended erosion and sediment control approach accommodate this peak, manage the extent of unstabilised construction footprint and thus address the relatively increased potential risk to water quality?

Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions and to Request #166, which explains that USLE can significantly overestimate actual sediment yield.

Paragraph 125 of the Erosion and Sediment Control Technical Report (provided as Appendix 4.3 to Appendix Four in Volume II) provides the assumptions for the USLE calculation, which includes an assumption that the catchment will be fully exposed for the full eight months of the earthworks period (assumption (b)). This assumption is conservative as in practice areas will be progressively stabilised.

170. HDC and Could the Applicant please KCDC explain what erosion and sediment controls are proposed for yard areas, Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions.

No.	Jurisdiction	Information requested	Waka Kotahi response
		temporary works areas and other activities undertaken during the enabling/establishment works period, how this will be documented and how will the appropriateness of the controls be confirmed?	Section 4.3 of the Design and Construction Report (Appendix Four to the Volume II) confirms that erosion and sediment control measures are proposed to be used during establishment works. Proposed resource consent conditions (provided as Appendix Five to Volume II) require that erosion and sediment control plans to be certified by the regional councils (refer to condition RES3 and RES6 for example).
171.	HDC and KCDC	Parts of the proposed project will be constructed in a flood plain. Could the Applicant please explain how the additional risks to erosion and sediment controls and consequently, water quality, have been addressed in these areas?	Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions. Almost the entire Ō2NL Project will be constructed on the piedmont alluvial plain at the foot of the Tararua Range. In general, such landforms are low angle and low energy environments subject to deposition rather than erosion. Consequently, the environment should naturally mitigate rather than exacerbate the risk of erosion and the need for sediment control. The measures proposed are therefore conservative, greater than likely necessary.
172.	HDC and KCDC	Technical Assessment H - Water Quality states that hydrological effects could be mitigated through increased infiltration in catchments predicted to have > 10% impervious area. Could the Applicant please explain how and where this will be achieved?	Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions. The operation of the stormwater treatment devices is described in Appendix 4.2 which is provided with the Design and Construction Report (Appendix Four to Volume II). This explains that any potential increase in runoff during the 'extreme' design event considered (1% AEP +CC) will be accommodated within the stormwater management system. This generally relies on attenuation and then infiltration and percolation. When infiltration and percolation are not possible (when events exceed the design standards) excess flow will be discharged to existing watercourses. Any effects of the proposed highway on water quality will be 'less than minor' compared to other contaminants. All contaminants will be 'diluted' by the large flows.
174.	HDC and KCDC	Technical Assessment H - Water Quality does not address the potential effects and mitigation in relation to water quality and flood plain function for the material supply areas adjacent to the Ohau River and Waikawa stream. Could the Applicant please provide this information?	Refer to response to request 162, which explains that water quality is managed through the regional consent applications and conditions. The Draft Erosion and Sediment Control Plan (provided as Appendix 4.3.3 to Appendix Four in Volume II) applies to all earthworks, including material supply sites. Site specific erosion and sediment control plans (proposed condition RES1) will be prepared that respond to context and sensitivity with input from experts as required.

176. HDC and The application states that in KCDC the absence of management actions, the effects of water abstraction are high and this includes potential exacerbation of water quality effects. Technical Assessment H - Water Quality does not appear to address this point. Could the Applicant please clarify the type, scale and potential risk to water quality from this activity?

177. HDC and KCDC Could the Applicant please describe how resource the permanent stormwater devices will be operated and maintained in a manner that enables them to provide efficient and effective treatment of stormwater prior to discharge and how will performance of these devices be assessed and reported during operation?

Waka Kotahi response

Refer to response to Request 162 that explains that water quality is managed through the regional consent applications and conditions.

Management actions are proposed and, therefore, the stated potential high effect will not eventuate. In summary, the proposed water abstraction strategy, using various other sources of water prior to abstraction from rivers and a global consent to 'share the load' will largely avoid any water quality effects. Taking only from the existing core allocation (except when above median flows), only above minimum flow, and at a maximum rate of 10% of the minimum flow means that any effects will be within the measurement uncertainty (±8%) of open channel flow. The effects of abstraction will therefore be 'less than minor' and not "high".

The operation of the stormwater treatment devices is described in Appendix 4.2 which is provided with the Design and Construction Report (Appendix Four to Volume II) (facilities) and is described in response to request 168.

Technical Assessment H (Water Quality) (Volume IV) assesses the effects of stormwater runoff from the operation of the Project and this confirms that an overall positive effect on water quality. The water quality mitigation measures proposed are based on significant experience on other similar projects across New Zealand. The receiving environments and their characteristics are well understood as are the nature of the Project activities that require consent. Accordingly, no conditions are proposed requiring the performance on the devices to be reported during operation.

The proposed stormwater treatment system will fall within Waka Kotahi maintenance regime. Maintenance of swales and constructed wetlands is documented in New Zealand best practice guidelines in the Wellington region and elsewhere. The key features are visual monitoring of plant health, sediment and litter capture volumes, clear flowpaths and free-flowing conditions in pipes/catchpits. Maintenance is generally carried out with hand tools, gardening skills and clear of the traffic lanes. Access for vehicles and small machinery will be incorporated into the landscape design of the device areas.

Hydrology and Flooding

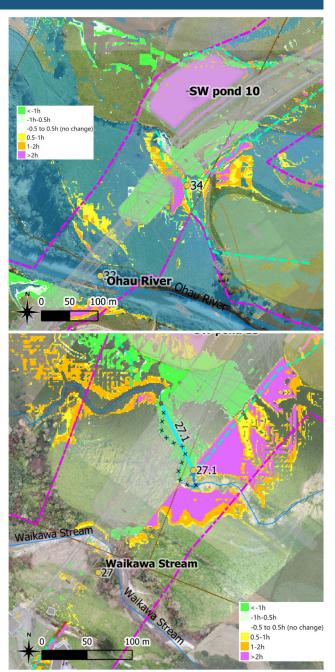
178. HDC and KCDC

Para 115 in the Final Technical Assessment F – Hydrology and Flooding report indicates inundation duration will be short, based on the short catchment response times. The Report Please find below figures that show the change in duration of inundation from the Ō2NL Project during the 1% AEP design event (1:100 year flood event at 2130 and allowing for climate change) (provided at full size as Attachment 5).

provides two figures (F.15 and F.25) showing pre and post water level comparisons over time at two locations with neither of these figures appearing to extend over a long enough period to account for when inundation depths approach zero metres.

Could the Applicant please quantify the changes to the duration of flood inundation on active pasture and/or crop land beyond the designation boundary within the 2D extents of the three models? (This could be mapped as a time difference between pre and post O2NL construction from when inundation commences to when inundation ceases for a range of time bands (minimum of 0 to 1 hour) and for both the 10 year and 100 year scenarios).

Waka Kotahi response



These figures show that in a 1:100 year flood event at 2130 and allowing for climate change:

- Ohua River the duration of inundation increase is approximately 60 minutes in a small section of the property located to the east of the Project.
- Waikawa Stream the duration of inundation increase is between 60 and 120 minutes on land upstream of the Project.

Technical Assessment F therefore concludes that the final highway could be constructed so that any effects outside of the designation would be 'less than minor'.

No.	Jurisdiction	Information requested	Waka Kotahi response
179.	HDC and KCDC	Figures showing peak water level differences and velocity changes in the Final Technical Assessment F – Hydrology and Flooding Report do not include a legend clarifying the various colour bands. Could the Applicant please provide legends for these Figures?	 The reasons for this conclusion were that those few areas potentially affected: Are small and of limited extent; Are under pastoral land use; Are generally already prone to flooding, or immediately adjacent to areas prone to flooding; Any increase in the depth of flooding will be small, generally only a few centimetres; Any increase in the duration of flooding will be short, generally less than an hour or two; Given the above, the area will recover rapidly from any increased inundation; and The potential effects of the increased flood risk will be infrequent and only during extreme events. A revised version of the technical report to include the legends that were omitted in error has been prepared and included in Attachment 6.
Conta	minated Land		
180.	HDC and KCDC	Could the Applicant please explain how, at this stage in	The NoR is based on a concept design to allow an envelope of effects to be assessed and consented, and

explain how, at this stage in the project, excluding site contamination from the application does not pose a material issue/risk to other disciplines regarding their respective design/approach, and therefore the overall project concept? The NoR is based on a concept design to allow an envelope of effects to be assessed and consented, and the extent of the land required for the Project to be defined sufficiently for the NoRs to be given.

Detailed design stages undertaken subsequent to the confirmation of the NoRs will incorporate the findings of a range of updated investigations (for example, site specific geotechnical assessments and detailed site investigations). Any material findings from the contaminated land investigation will be factored into that detailed design process.

Should the detailed design process necessitate any changes to the designation conditions, or result in additional land being required, then any necessary RMA approvals will be sought at the time. This is common practice throughout the country for major linear infrastructure projects.

It is important to note that any risks associated with not seeking contaminated land related resource consents are borne solely by Waka Kotahi as the Project proponent.

181.	HDC and KCDC	The submitted PSI has identified 35 'potential HAIL sites', 30 within the proposed designation and 5 adjacent and has further ranked these sites as either 'low', 'medium' or 'high' risk, based on 'the likelihood and the nature of contamination existing at the site from a particular activity'. Eight sites ranked 'medium' risk and one site ranked 'high' risk are identified as requiring further investigation and these sites are listed in proposed condition REW4. Following the process set out in the NES-CS, and as full site walkover has not yet been undertaken, could the Applicant please comment if it would be more appropriate to first require the PSI to be revised and updated following a complete site inspection, and then require DSIs for all identified pieces of land where the PSI cannot conclude that it is 'highly unlikely that there will be a risk to human health if the change of use is made' (Regulation 8(4) and/or that the soil disturbance component cannot meet permitted activity thresholds (Regulation 8(3))?	Waka Kotahi considers that the PSI is complete for its intended purpose and does not require subsequent revision.
182.	HDC and KCDC	The PSI states that the risk screening system is based on the Ministry for the Environment (MfE) Contaminated Management Guideline No 3: 'Risk Screening System'. Could the Applicant please provide the template and workings of the risk	This information is not required to better understand the nature or extent of effects given that no applications have been made during this process. This is a technical approach matter that can be discussed by the relevant experts during and as part of the preparation of any future applications for resource consent under the NES- CS.

screening, including the parameters adopted and the

inputs?

Waka Kotahi response

Waka Kotahi response

Planning

183. HDC Section 19 of and Volume II Part D KCDC states:

'The activities that require resource consents pursuant to sections 9(2), 13, 14 and 15 of the RMA. the NES-F. the NES-CS, One Plan and the PNRP are described in detail within the Rule Assessment at Appendix One and summarised below. Appendix One also sets out the permitted activity rules applicable to the O2NL Project. All regional resource consents required for the O2NL Project are being sought as part of this application, whether they are explicitly specified or not. If, after detailed design is complete, further or different consents are required these will be sought at the time'. Section 19.7 of Volume II Part D states: 'Waka Kotahi will undertake detailed site investigations (DSIs) including soil testing of sites traversed by the **Ō2NL** Project in subsequent design phases and once land access becomes available. Informed by the DSI

results, if necessary

Waka Kotahi confirms that DSIs will be undertaken as access to the sites where investigations are required becomes available. Until this access is secured Waka Kotahi is not in a position to confirm whether any resource consents are necessary.

Should the investigations confirm that a resource consent is required by the NES-CS regulations, then such consents will be sought at that time. The proposed approach to contaminated soil is embedded by proposed resource consent condition REW4.

Waka Kotahi does not anticipate that any resource consent required by the NES-CS regulations will necessitate works outside of the designations. However, if this is the case Waka Kotahi has the ability to, if necessary, seek an alteration to the designation under section 181 of the RMA.

Waka Kotahi will then apply for any resource consents required by the **NES-CS** regulations and/or the relevant Regional Plans. Waka Kotahi will share the results of the DSI with the relevant district and regional council when they are completed.' These paragraphs appear to contradict each other and there is potential that the consents required by the NES-CS could affect the alignment of the designation. Could the Applicant please explain why potential consenting requirements under the NES -CS do not need to be addressed at this stage?

184. HDC and KCDC

The O2NL Project does not include a connection between East Levin and Tara-Ika between Tararua Road and Queen Street East, and yet this is shown as a key component of the Tara-Ika Structure plan. Could the Applicant please provide a place based comparison of the before (no link) and after (with the pedestrian link and then a multi-mode link) assessment of connection options.

185. HDC and Appendix 5, reference D.1 KCDC and D.2 describes the designation as: 'The construction, operation, maintenance and The term improvement in the context of the designation relates to potential improvements that may be needed to be undertaken to enable the continued efficient, effective and safe operation of the land transport system. Such improvement activities may for example include new

See the response to request 139.

improvement of a state highway and shared user path and associated infrastructure, between Taylors Road (to the north of Ōtaki) and State Highway 1 north of Levin known as the Ōtaki to North of Levin Highway Project'. Could the Applicant please explain what is meant by 'improvement' and describe the nature of the activities undertaken that would constitute improvement?

Appendix 1 of the AEE

186. HDC and KCDC

provides a Rules Assessment against the Horizons One Plan and the Proposed Natural Resources Plan for the Wellington Region, however, there is no assessment of the Project against the Kapiti Coast District Council and Horowhenua District Council District Plan rules. Could the Applicant please provide an assessment of the Project against the HDC and KCDC District Plan rules, to demonstrate that a Notice of Requirement to designate is the most appropriate mechanism to achieve the objectives of the Requiring Authority (s.171(1)(c) RMA)?

Network Utility provisions of the HDP and KCDP to

Waka Kotahi response

improved barriers, pavement, lane control or lighting technology.

Waka Kotahi notes that the s171(1)(c) of the RMA test is not whether the work and designation are the most appropriate mechanism for achieving the Project objectives, but whether the work and designation are reasonably necessary to achieve the Project objectives.

An assessment of whether the work and designation is reasonably necessary to achieving the objectives of the Ō2NL Project is provided in section 72.2 of the Supporting Information and Assessment of Effects on the Environment Report (Volume II).

No assessment of the District Plan rules is necessary to address s171(c).

187. HDC and Section 12.8 of the AEE The scope of the proposed designation (through the KCDC notes that the design and NoR) seeks to authorise all works needed to construct, timing of reconnecting maintain and operate the state highway. It was intended that this extended to include any works necessary to network utilities effected by the O2NL will be discussed protect, relocate and reconnect network as required to and developed in enable the O2NL Project. These works fall within the consultation with network proposed definition of 'establishment works' included in utility owners. the proposed Conditions (see also section 4.3 the Design and Construction Report provided as Appendix Four to Could the Applicant please Volume II). comment on whether the As explained in the response to request 192, these intention is to rely on the

As explained in the response to request 192, these works are generally permitted by the rules in the HDP and KCDP. It is for this reason Waka Kotahi seeks that

No. Jurisdiction Information requested

undertake these works, and whether these works are likely to be permitted by the District Plans?

188. HDC and KCDC

- Section 18.6 notes that within the Kāpiti Coast District, for several hundred metres, the SUP is located outside of the Ō2NL designation, but within the existing SH1 designation. Section 19.12.3 of the AEE notes that in some locations the SUP is located outside of the area subject to the proposed designation.
- (a) Could the Applicant please clarify if those parts of the SUP that are outside the proposed O2NL designation are within the existing SH1 designation, or are there parts of the SUP that fall outside either designation?
- (b) If the SUP is located outside either the existing SH1 designation or the proposed O2NL designation, could the Applicant please comment on the potential resource consents that may be required under the KCDP, or if the works are permitted by the rules in the KCDP?

189. HDC and KCDC Section 19.12.3 of the AEE notes that the works to relocate and improve the Tararua Road and existing SH1 intersection are located outside of the proposed designation and partially within the existing SH1 designation and 'where the SUP and intersection are not within the existing or

the requirement for an outline plan is waived under section 176A(2) (see response to request 193).

Waka Kotahi response

The existing property boundaries for SH1 are shown in a brown line on drawing set 02 - General Arrangement and the proposed $\overline{O}2NL$ Project designation is shown in a purple line. This shows the SUP is within the $\overline{O}2NL$ Project designation and when the SUP is outside of the purple lines, it is within the brown lines which is the existing SH1 designation. Therefore, the SUP is within the $\overline{O}2NL$ Project designation when not within the $\overline{O}2NL$

It is assumed that this request relates only to the works proposed at the intersection of Tararua Road with SH1 and the associated level crossing of NIMT.

A planning assessment of works against the rules of Horowhenua District Plan is attached (Attachment 7). The works associated with the relocation of the level crossing can comply with the rules in the District Plan and Therefore no resource consent or designation is required from HDC to authorise the works.

However, s176(1)(b) approval will be required for any works undertaken on the KiwiRail designation, including

No.	Jurisdiction	Information requested	Waka Kotahi response
		proposed designations, the rules in the HDP apply'. Could the Applicant please provide an assessment of the SUP and intersection works that are not located within the existing or proposed designation against the HDP rules and identify whether the works are permitted or will require consent under the HDP?	the closure of the existing level crossing and the construction of the relocated level crossing.
190.	HDC and KCDC	Section 10.1 of the AEE, final paragraph discusses the Design Audit process and makes reference to a Figure, however the Figure appears to be missing. Could the Applicant please provide the referenced Figure?	The reference to a figure in Section 10.1 of Volume II is an error and therefore the reference to a figure should be ignored.
191.	HDC and KCDC	Section 3.3.3 of the AEE notes the following: 'The Tara-Ika Structure Plan shows an east/west arterial road (referred to as East West Arterial) crossing over Ö2NL and connecting the Tara-Ika Growth Area with Arapaepae Road. The East West Arterial provides access to the proposed commercial centre of Tara- Ika and provides additional capacity in the transport network. As the East West Arterial will cross over O2NL it will required bridging, which will require RMA approvals. It is expected that the RMA approvals will be sought in the near future.' (a) Could the Applicant please explain what structures (i.e. bridging and supports) would be required to accommodate the EWA and O2NL as depicted in the District Plan and NOR (noting that	See the responses to request 133 to 139. Any structures necessary for the East West Arterial do not form any part of the scope of NoR for the Ö2NL Project and therefore any description of, or design of, such structures is not relevant to the consideration of the NoR. For this reason, the effects of such structures are not relevant to the consideration of the NoR. In addition, Waka Kotahi notes that the construction of the East West Arterial is not a permitted activity and that it would require separate district council and regional council consents.

No. Jurisdiction Information requested

Waka Kotahi response

construction of the EWA road itself is currently a permitted activity albeit subject to s178(2))?

(b) Do any effects on the environment arise from these structures (including e.g. traffic and transportation effects, social and urban design effects, landscape / visual effects, cultural effects, and effects on the delivery of the outcomes anticipated and provided for by Plan Change 4 Tara-Ika)?

192. HDC and KCDC

Section 18.2 of the AEE notes that 'establishment works are limited in scale and have minor adverse effects. Further, establishment works are generally permitted by the rules in the relevant District Plan. It is on this basis that Waka Kotahi seeks to waive the requirement for an outline plan for establishment works'. Could the Applicant please undertake an assessment of the establishment works as defined in Appendix 5 Draft Conditions, to confirm that establishment works are permitted by the HDP and KCDP and that the subsequent request to waive See the response to request 187.

A planning assessment has been undertaken for the establishment works. This assessment confirms that the establishment works are permitted. The assessment is provided as Attachment 8.

Condition DGA8 states that the "*requirement for an outline plan for establishment works is waived under section 176A(2) of the RMA*". The intention of the Condition is to confirm that the circumstances in section 176A(2) apply to establishment works and therefore the requirement for an outline plan is waived.

For the avoidance of doubt, Waka Kotahi confirms that it seeks that the requirement for an outline plan for establishment works (as described in section 4.3 of the Design and Construction Report (provided as Appendix Four to the Volume II) are waived under section 176A(2).

193. HDC and KCDC

Could the Applicant please comment on the intent of proposed condition DGA8 -Establishment Works when there is a process specified under the RMA (s.176A(2)) for a Requiring Authority to seek a waiver to an Outline plan requirement?

the for an outline plan is

appropriate?

See the response to request 192.

No.	Jurisdiction	Information requested	Waka Kotahi response
194.	HDC and KCDC	Final Technical Assessment N – Productive Land, at paragraph 7 notes that the 'extent of the restored land (and to what state it will be restored) is unknown'. Could the Applicant please explain what are the options available for restoration and are there minimum standards required that could be set as conditions to enable as much highly productive and highly versatile land to be restored?	Paragraph 7 in Technical Assessment N is referring to land that is needed for construction purposes and following construction will be no longer required for the future operation and maintenance of the Ō2NL Project state highway and shared use path. On these areas of land (that are not permanently required for the operation and maintenance of the Ō2NL Project), the general approach to restoration is to clear construction materials, replace topsoil (either stockpiled or sourced) and revegetate with grass. In some instances, land will have been used during construction in a manner that is likely to result in an adverse impact on the underlying condition of the soil, subsoil and substructure layers, when compared to the pre-Project condition of the soil in a particular locality. In other instances construction activity may not have any material effect on the productivity and versatility of the land post construction. It is not possible to provide minimum standards that relate to versatile land and instead the point being made is that land under the construction and is not permanently lost to production, although productivity

Waka Kotahi trusts that the above responses sufficiently address matters raised in your request for additional information. Please do not hesitate to contact the us if you have any queries.

instances.

potential of this land area is likely to be impacted in some

Nāku noa, nā

the

Caitlin Kelly, Principal Planner

Attachments:

Attachment 1: Transport Level of Service at 2039 using the 95th percentile growth scenario Attachment 2: Traffic count data at telemetry sites at SH1, Ohua and SH57, Shannon Attachment 3: Memo from Phil Peet, Stantec providing an assessment of the transport performance of Southern Intersection (Taylors Road)

Attachment 4: Transport links and integration with the PP2O Project (now open)

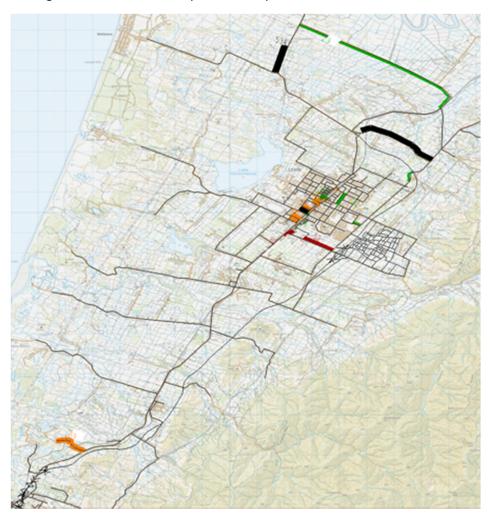
Attachment 5: Change in duration of inundation from O
2NL Project at Ohau River and Waikawa Stream in 2130

Attachment 6: Updated Technical Assessment F (Hydrology and Flooding)

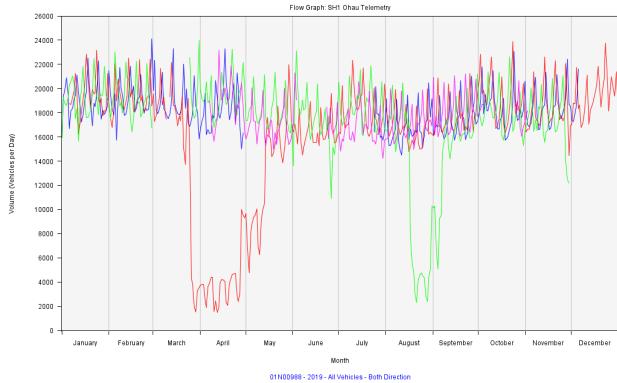
Attachment 7: Assessment of the proposed works at the intersection of Tararua Road and State Highway 1 and level crossing NIMT against the rules of Horowhenua District Council Plans Attachment 8: Assessment of establishment works against the rules of Horowhenua and Kāpiti Coast District Plans

Attachment 1: Transport Level of Service at 2039 using the 95th percentile growth scenario

This figure is referred to in response to Request # 108

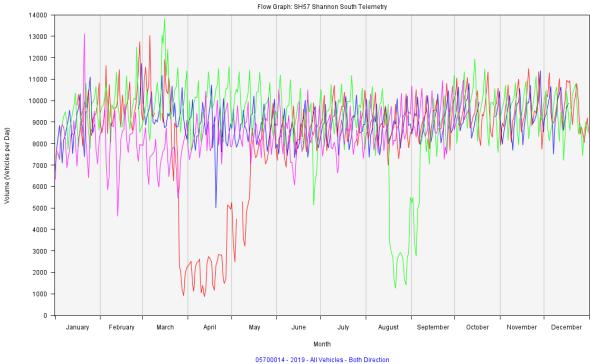


Attachment 2: Traffic count data at telemetry sites at SH1, Ohua and SH57, Shannon



This figure is referred to in response to Request # 109.

01N00988 - 2019 - All Vehicles - Both Direction 01N00988 - 2020 - All Vehicles - Both Direction 01N00988 - 2021 - All Vehicles - Both Direction 01N00988 - 2022 - All Vehicles - Both Direction



05700014 - 2019 - All Vehicles - Both Direction 05700014 - 2020 - All Vehicles - Both Direction 05700014 - 2021 - All Vehicles - Both Direction 05700014 - 2022 - All Vehicles - Both Direction

Attachment 3: Memo from Phil Peet, Stantec providing an assessment of the transport performance of Southern Intersection (Taylors Road)

Provided in response to Request #115





To:	Rob Napier From		Phil Peet & Sam Rudge
	Waka Kotahi		Wellington
Project/File:	310203848	Date:	8 July 2022

Reference: Ōtaki to North of Levin Taylors Road Interchange Outcomes

1 Purpose

To summarise the available evidence and rationale for including an interchange at Taylors Road as part of the main works on the Ōtaki to North of Levin (Ō2NL) project.

The two options considered in detail are shown below, with the no connection option in Figure 1 and the half interchange in Figure 2.



Figure 1: Taylors Road no connection

Figure 2: Taylors Road half interchange

Both options maintain property access to all required properties.

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Reference: 310203848

2 Option History and Issues Identified

Interchange Optioneering Timelines

- The interchange options report developed in mid-2020 identified principals for interchange design including location. The interchange principals and design requirements considered:
 - Current urban form
 - Future urban form
 - Environmental and cultural impacts
 - Suitable separation between interchanges and other significant structures
 - Direct impacts on well-established residential / commercial areas are to be avoided if possible
 - Interchanges need to connect to an existing road (and the existing road ideally should be of a standard and function that it serves a reasonable community catchment), and
 - Interchanges are generally not to be located where ramp entry and exits would be on tight horizontal curves, and
 - Interchanges need to be safe for all modes.
- Taylors Road was not identified as a potential interchange location at this time.
- Local road options for accessing Taylors Road were developed at high level in mid-2020 and progressed through an MCA Process The MCA process identified grade separating the current SH1 with O
 2NL with no connection between and a T intersection serving Taylors Road.
- A concurrent MCA process identified that no interchange in the Manakau area was preferred.
- In August 2020 public consultation on the MCA preferred option at Taylors Road and the lack of Manakau interchange was undertaken. This is shown in Figure 3.

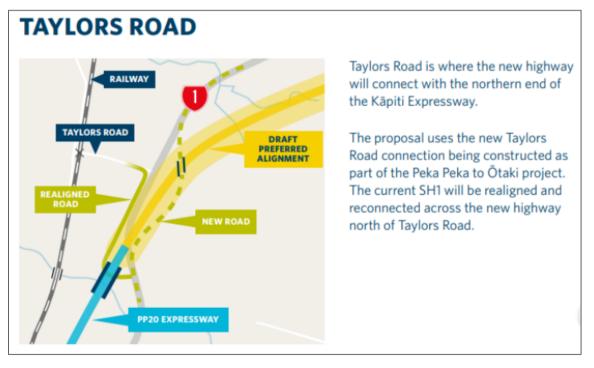


Figure 3: August 2020 consultation option

Full details for interchange requirements, and the development and shortlisting process, is outlined in the Interchange Options Report. Details of the option selection is available in the Ō2NL MCA Report.

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Reference: 310203848

Identified Issues

At this stage further consideration was given to network connectivity in this area, specifically the difference between the current situation, what will be in place after PP2Ō opens and then what will happen after Ō2NL opens. The road user experience timeline is thus:

PP2Ō will open in late 2022 with two half interchanges, south facing ramps south of Ōtaki and north facing ramps in north Ōtaki. PP2Ō will tie into the existing SH1, approximately 300m north of the Taylors Road. Once PP2Ō is operational, there will be a seamless and direct connection between PP2Ō and the existing SH1 north of Ōtaki for about 7 to 8 years. During the 7 to 8 years, traffic volumes on the "old SH1", between Taylors and Mill Roads, is likely to drop from 18,000 vpd to about 300 vpd.

PEKA PEKA TO ŌTAKI EXPRESSWAY ALIGNMENT MAP



 Once Ō2NL is opened, traffic volumes on this same section of the old SH1 will increase to approximately 3,000 vpd. This volume is vehicles travelling to/from Manakau and Ohau who are now having to travel through Ōtaki to access the south facing ramps south of Otaki to access SH1. It is likely that motorists accessing Manakau and Ohau would have become used to using PP2Ō (for about 7 to 8 years) and are likely to have an expectation of continuing to use the expressway to bypass Ōtaki.

Maps of this staging, and what this means for Taylors Road traffic, are presented in Appendix A.

Other issues or opportunities in this area include:

- The Ō2NL Project identifying that no interchange in the Manakau area is required, which means that there will not be another place for Manakau and Ohau traffic to access the new highway to travel south.
- The cost of a large structure to grade separate traffic
- The impact of the project on Māori land.

This led to the project team identifying an alternative option which can improve connectivity and achieve the project objectives. The timelines for several considerations which lead to the development of the half interchange are outlined below.

Design Review

In late 2020, the Design Team identified a possible option for addressing the above issues, which involved

- An additional half diamond interchange with south facing ramps near Taylors Road
 - Utilising the grade-separation connection already proposed for reconnecting old SH1 to: • Connect northbound highway traffic more directly onto the old SH1 (through to
 - Manakau) Connect southbound highway traffic from the old SH1 (from Manakau)

Connect southbound highway traffic from the old SH1 (from Manakau)
 The design review also concluded that this option can be delivered for no additional cost (and potentially marginal cost reduction) than the no connection option as the bridge structure can reduced in length and provide for unidirectional traffic movement only (i.e.as a southbound on-ramp), so is a smaller structure.

Waka Kotahi then progressed the option through their MCA process which found in favour of the original option with no interchange. The MCA was in favour of the half interchange for resilience and social considerations, but strongly against it in terms of visual impacts and noise impacts.

The remainder of this memo discusses those benefits and impacts.

3 Traffic Impacts

As the presence and absence of a half interchange has significant impacts on the connectivity and therefore route choice of the option, the two options were run through the project traffic model for 2039 under the 75% ile growth scenario (this model run did not have an interchange in the Manakau area). The traffic volumes north of Ōtaki are shown in Figure 4.



Figure 4: Traffic volume differences north of Ōtaki

It can be seen that under this scenario the half interchange removes approximately 3,000 vehicles off the current SH1 north of Ōtaki, compared to having no connection.

It also shows the impact of the average speed on access to the north. It is known that Waka Kotahi does not use a 70 km/h speed limit, however this would be representative of the speed environment with the proposed revocation programme dropping the towns to 50 km/h and 80 km/h remaining on the fully rural sections and the perception of the new highway being a more attractive route. With this in place, traffic volumes on the old SH1 north of Ōtaki would be approximately 2,400 vehicles per day.

Further south in Ōtaki the difference is not as significant, but removes a reasonable proportion of the Ōtaki township traffic as seen in Figure 5.



Figure 5: Impacts to traffic volumes through Ōtaki township

The presence of the half interchange reduces traffic flow through the Ōtaki township, while not as significant as the impacts north of Ōtaki, at a 14% reduction it is a moderate proportion of the traffic .

In summary, in comparison to the direct option with no access, the half interchange would,:

- Remove around 3,000 vehicles per day on the stretch of old SH1 between Taylors Road and the PP2O north facing ramps north of Otaki as vehicles can use the new highway over this length
- No change in traffic on Mill Road for trips to Ōtaki Town Centre or Ōtaki Beach
- Remove around 1,000 vehicles per day on the old SH1 through Ōtaki as vehicles from the Manakau and Ohau use the new highway for longer trips south.

4 Benefits and Disbenefits

A discussion about the relative merits between options for some key considerations is outlined below:

Project Objectives

Resilience

The scoring of project objectives during the MCA process only differed in terms of resilience. Not providing an interchange scored worse due to the large distance between south of Ōtaki and Tararua interchanges, creating a large diversion back onto the existing highway. This diversion would be needed for any incident along this 20km stretch of highway. The provision of the half interchange reduces the distance travelled for some detours by approximately 4km, but importantly avoids diverting all traffic through the Ōtaki township. While the road alignment for the detour was noted to be worse than the no interchange option, it was considered that overall this was an increase in the corridor's resilience compared to the no interchange option.

The worst case from the half interchange option would be a flood event that closed the access road under the Waithou Stream Bridge at the same time as an incident occurred on the Peka Peka to Ōtaki expressway over the Waitohu Stream Bridge. This is because the access road is the diversion route. However, this is considered to be incredibly unlikely as it is two unlikely events happening concurrently. It is also an issue that will be present upon PP2Ō opening and not worsened with Ō2NL¹.

Safety

From safety perspective there are benefits to both options:

- The close proximity of the on and off ramps could lead to weaving issues, however this has been discussed with technical experts from Waka Kotahi and was judged to be acceptable given the capacity of the new highway and merge / diverge volumes.
- The presence of the half interchange removes a forecast 3,000-3,200 vehicles per day from the old highway, including approximately 1,000 vehicles per day through the township itself to access destinations to the south. This is an approximate 15% reduction in traffic which has an associated safety risk improvement particularly for pedestrians and cyclists.

Other Project Objectives

No other project objective resulted in a preference for one option over the others. However, it is noted that the project objectives purposely consider benefits and impacts highway traffic rather than detailed consideration of local access.

Other MCA Considerations

Noise and Vibration

 $^{^1}$ In fact it is better with $\bar{O}2NL$ because there will be four lanes provided meaning improved contraflow opportunity, plus the entirety of the highway is elevated through this flood catchment, which is not the case with only PP2 \bar{O} in place.

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Reference: 310203848

From a noise and vibration perspective the no interchange option was preferred as it avoided the likelihood of additional noise and/or vibration effects on nearby dwellings created by traffic stopping and starting at the roundabout. This is likely to affect around half a dozen properties in proximity to the roundabout, but it is noted that these dwellings will likely be experiencing a reduction in traffic noise due to most traffic moving onto the new highway.

Visual

Through the MCA process it was noted that the no interchange option would result in "flowing curves", follow the historic existing SH1, and would form part of a legible local spine linking Ōtaki, Manakau, Kuku, Ōhau, and Levin. It was judged that the half interchange was inferior as it would result in increased visual clutter (a mix of different forms with no aesthetic coherence) and the historic spine road between Levin and Ōtaki would be diverted through a circuitous and less legible route.

Other Considerations

Māori Land

The half interchange option allows a tighter curve under the new highway which enables the on-ramp and property access road to be much closer to the highway and therefore a reduction in land needed from the Māori land parcel in this area. This landowner has been affected already by PP2Ō and ideally further land take should be minimised.

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Reference: 310203848



Costs

The half interchange has savings of approximately \$5M compared to the no interchange option. While the half interchange has additional costs in terms of pavements and earthworks, it has reduced complexity and size for the structural elements which more than offsets the additional roadbuilding costs.

Access

There are significant access benefits from delivering the half interchange. The southern Horowhenua area will retain direct access onto the Kāpiti Expressway without needing to traverse through Ōtaki. Access to Taylors Road from the north is simpler, and there is better connectivity to the expressway and destinations to the south. Not providing the half interchange will increase traffic through Ōtaki which will have a negative amenity impact on the township.

Traffic accessing Ōtaki from Manakau and Ohau will join the new highway at Taylors Road, use a 600m stretch of PP2Ō then leave the highway north of Ōtaki. This will mean some local trips using the new highway for local trips and is not expected to create any issues.

Future Proofing

The provision of access onto the Kāpiti Expressway without traversing Ōtaki will enable growth in southern Horowhenua without an interchange in the Manakau area. It is likely that this will delay the need for an interchange in this area compared to not delivering the half interchange.

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Reference: 310203848

Walking and Cycling

Both options can facilitate a direct link between the PP2O and the O2NL shared use paths.

Land Acquisition

The half interchange option requires more land, but the MCA process did not identify either option as being more difficult. Both options impact on the same land parcels. As above, the half interchange is likely to have lesser effects on Māori owned land.

Alternative Route

The half interchange does not provide as higher standard alternative route in the event that the new highway is closed as it requires traffic to divert onto the route underneath the Waitohu Stream bridge. However, this is only an issue if an incident takes place on the 600m stretch between the end of the north facing ramps north of Ōtaki and the start of the south facing ramps at Taylors Road and the chances of an incident on this short stretch are very small.

As noted above, the half interchange does help mitigate the chance that SH1 traffic is required to divert through Ōtaki.

5 Council Suggested Alternative

After the development of the half interchange, a hybrid quarter interchange with full north south connectivity on the old alignment was proposed by a council representative. This was developed to ensure a two-way two-lane parallel route to SH1 throughout Kāpiti. This is outlined in Figure 6.

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Reference: 310203848

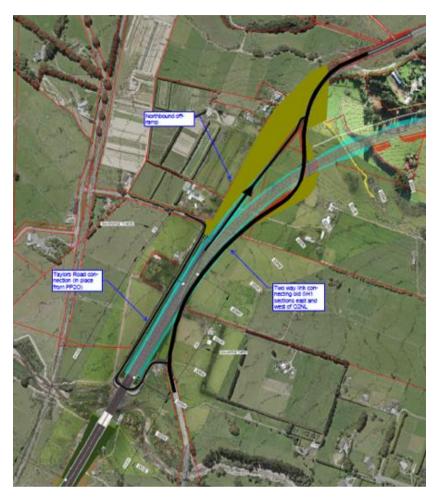


Figure 6: Quarter interchange option

Notably, to create the two-way-two lane link, it necessitated the removal of the southbound on-ramp onto the new highway.

The option was assessed at a high level but not progressed. In its favour it:

- does not have a roundabout in close proximity to the houses thereby reducing noise; and
- provides a parallel two-way two-lane road; and
- provides for north-bound trips from the highway to Manakau and Ohau

However, in terms of issues it:

- would introduce network legibility considerations as only one ramp is provided. This means that northbound trips need to take a different route to southbound trips.
- does not provide benefits to southbound travellers.
- only provides resilience benefits in one direction.
- creates a safety risk of inadvertent wrong-way use of the off-ramp by confused drivers which is more difficult to design out without a roundabout
- may have visibility issues for traffic traversing under the new highway
- requires the larger two-way link and therefore increased structural costs.

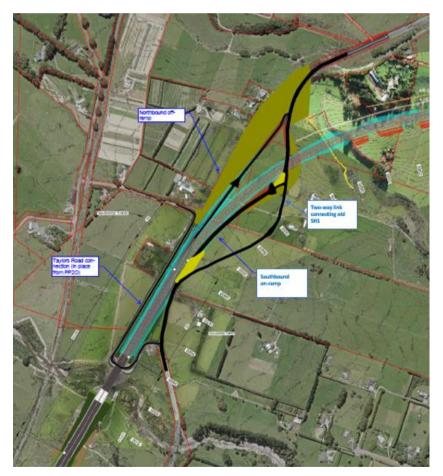
- would preclude safely being able to add a southbound onramp in the future if desired.
- results in all Taylors Road movements using the double dog leg underneath the Waitohu Stream Bridge with no alternative option if closed (such as due to flooding).

The option was discounted as while there were some benefits, it only solves half the problems and leaves half the issues. The consistency in northbound and southbound trips provided by the other two options is considered to provide a better outcome.

6 Ability to Deliver Parallel Route and Ramps

Consideration was given to whether it would be possible to deliver a two-way two land parallel route as well as south facing ramps at this location. To provide both it is likely the following would be required:

- A considerably larger structure to ensure visibility
- A realigned road that meets geometric and visibility standards, including those for the intersections.
- Increase earthworks to enable sufficient area to provide for safe turning movements onto the on-ramp
- Increased land take to enable the above works



A key concern of this option is the additional land take needed to construct this link. It would be greater than either of the previously identified options and is likely to require land outside of the previously advised 'blue haze' presented to the landowner and outside the currently identified draft designation.

This option also creates two new priority intersections onto the reconnected old SH1. Neither of these priority intersections would be Safe System compliant and on the basis of traffic speeds and the turning movement types involved, when crashes do occur at these conflict points would likely result in death or serious injury.

This option would add significant cost and high severity crash risk without adding significant benefit.

Although it would allow a parallel route, it would only improve resilience in the extremely rare scenario that both the Taylors Road diversion and Waitohu Stream bridge are closed at the same time. It would not likely address the landscape and visual concerns or the noise concerns. This is not considered to be a significant improvement in outcomes compared to the cost and impact.

7 Summary

Despite the MCA process identifying no interchange as the preferred option for the area, the DBC has progressed a half interchange. When considering just the project objectives, it was the preferred option in the MCA process, and it has other wider benefits such as maintaining the traffic pattern that road users will have become familiar with and expectant of for 7-8 years, delaying the need for a Manakau area interchange, removing traffic from the Ōtaki township and allowing more direct access to the highway from Manakau and Ohau. These effects were not considered by the MCA criteria and their exclusion from the MCA does not preclude them being used to inform the decision-making process.

The progression of a half interchange will improve the resilience of the corridor, while improving community outcomes and connectivity which is one of the project objectives and key outcomes sought by the project.

Regards,

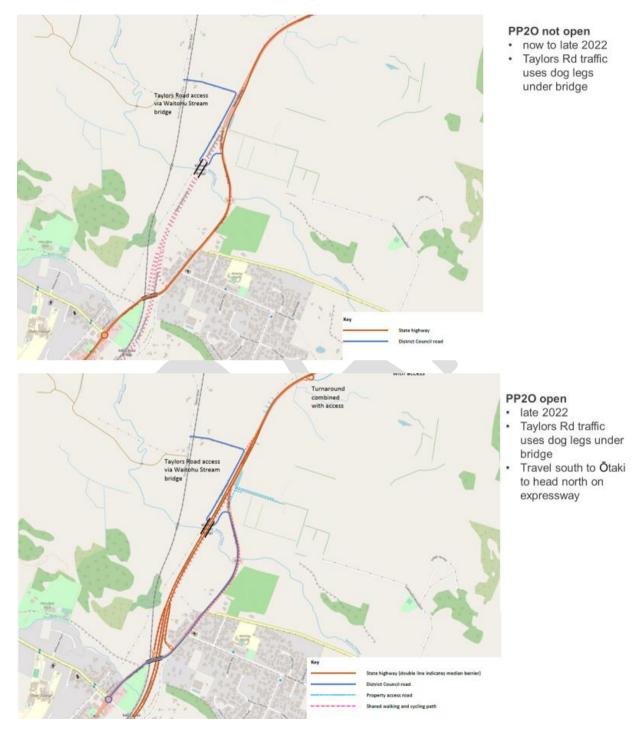
Stantec New Zealand

Phil Peet

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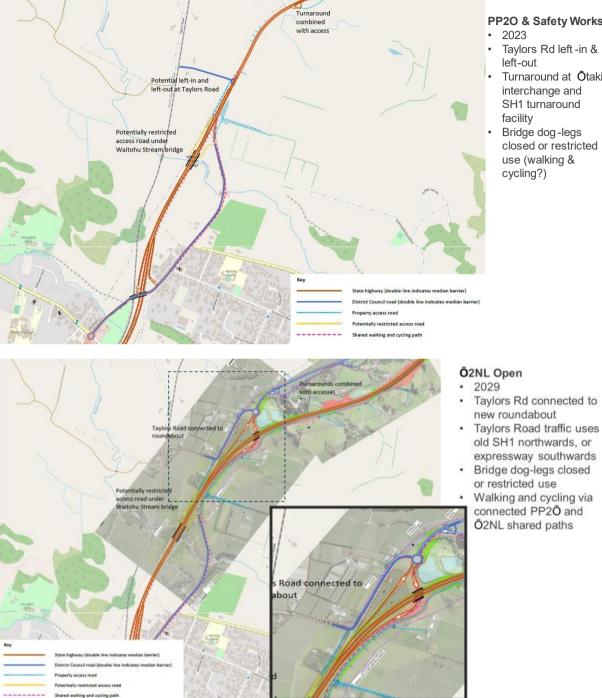
Memo



Appendix A: Staging of the Taylors Road Connections

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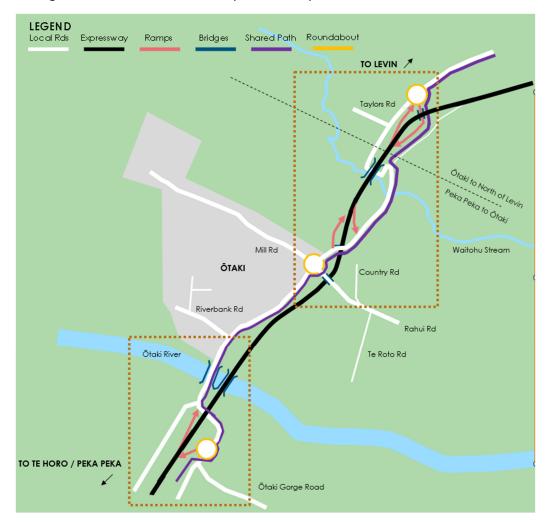
Reference: 310203848



PP2O & Safety Works

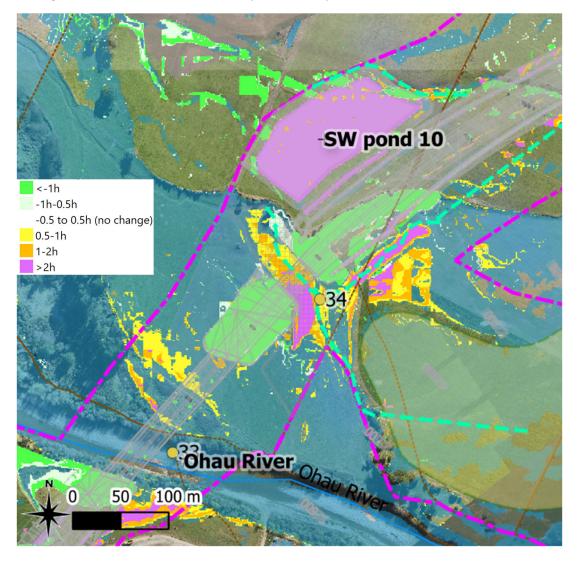
- Taylors Rd left -in &
- Turnaround at Ōtaki interchange and SH1 turnaround
- Bridge dog -legs closed or restricted use (walking &

Attachment 4: Transport links and integration with the PP2O Project (now open)

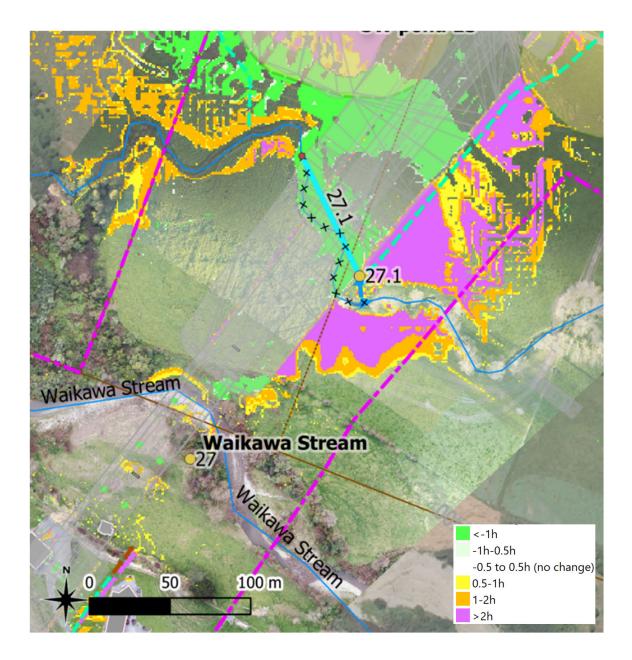


The figure below is referred to in response to Request # 118.

Attachment 5: Change in duration of inundation from $\bar{O}2NL$ Project at Ohau River and Waikawa Stream in 2130



The figures below are referred to in response to Request #178.



Attachment 6: Updated Technical Assessment F (Hydrology and Flooding)

A revised version of this report has been uploaded to the SharePoint site and also to the Waka Kotahi web site: <u>RMA applications | Waka Kotahi NZ Transport Agency (nzta.govt.nz)</u>

ATTACHMENT 7: PLANNING ASSESSMENT - STATE HIGHWAY 1/TARARUA ROAD INTERSECTION AND NORTH ISLAND MAIN TRUNK RAIL LINE LEVEL CROSSING

Purpose

The following sets out an assessment of the likely Resource Management Act 1991 (RMA) approval requirements from Horowhenua District Council for the improvement of the State Highway 1 and Tararua Road intersection including the relocation and upgrade of the North Island Main Trunk Rail Line (NIMT) level crossing.

Proposed activity

It is proposed to close the existing level crossing at Cambridge Street South and replace this crossing with a new crossing at the western extent of Tararua Road. The proposed works include associated earthworks and vegetation clearance; discharges of construction and operational stormwater to surface water and land; and the undergrounding of existing overhead electricity lines.

Site location

Tararua Road reserve (parcel ID 4098312), State Highway 1 road reserve (parcel ID 4104096, designation D2) and KiwiRail designation (parcel ID 4067264). The indicative location is shown on Figure 1. The existing level crossing is at X coordinates - 1792212.68 and Y coordinates - 5499145.9 and the relocated crossing will be located approximately X coordinates - 1792087.78 and Y coordinates - 5498995.81.



Figure 1: Proposed relocation of the SH1/Tararua Road/NIMT level crossing

RMA Planning approval requirements

Horowhenua District Plan - Maps

The Horowhenua District Plan was made operative in 2015. The site is shown on planning map 29 (in Figure 2).

Figure 2: Excerpt of Planning Map 29



The Horowhenua District Plan Index Map notes that:

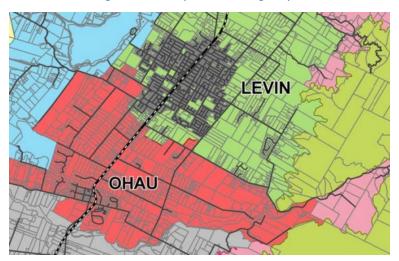
"1. The roads and railway shown on the Planning Maps are shaded grey and white respectively for ease of reference. Although the roads and railway are shaded grey and white they are all zoned. Roads and the railway share the same zoning as the land nearest to each point of the road or railway. Where the zone is different on either side of the road or railway, the boundary between the zones is the centre line of the road or railway."

On this basis the proposed new crossing is located predominantly within the Industrial Zone (purple) and likely partially within the Rural Zone (white).

The site is also subject to the following designations set out in Schedule 1 to the District Plan:

- 1. Designation D1, for 'Railway Purposes (for which KiwiRail Holdings Limited is the requiring authority).
- 2. Designation D2, for 'State Highway 1 To undertake maintenance, operation and use of, and improvement of a State Highway' (for which NZ Transport Agency is the requiring authority).

The site is also located in the Levin Koputaroa Landscape Domain and the Levin Ohau Landscape Domain (shown on Planning Map 39 that is included as Figure 3).





Horowhenua District Plan - Rules

The District Plan includes a definition of 'network utility'¹. The proposed activity falls within this definition.

Rule 16.1(n)(i) provides for the construction, operation, maintenance and upgrading of network utilities in the Industrial Zone as a permitted activity.

Permitted Activity Condition 16.6.18 requires that:

- "(a) All network utilities and structures associated with network utilities shall comply with the permitted activity conditions in Chapter 22.
- (b) All other permitted activity conditions specified in this Chapter of the District Plan shall also apply to any network utility or associated structure."

Rule 19.1(m)(i) similarly provides for the construction, operation, maintenance and upgrading of network utilities in the Rural Zone as a permitted activity.

Permitted Activity Condition 19.6.24 requires that:

- "(a) All network utilities and structures associated with network utilities shall comply with the permitted activity conditions in Chapter 22.
- (b) All other relevant conditions in this part of the District Plan shall also apply to any new network utilities or upgrade of any network utility or associated structures which are not able to meet the permitted activity under Rule 22.1.10."

Rule 22.1.10 relates to the maintenance, replacement and upgrading of network utilities and therefore the exemption in Condition 19.6.24 is not relevant to the proposed activity.

The following Table 1 sets out the permitted activity conditions in Chapter 22 and the relevant zone related permitted activity conditions along with a commentary in respect of compliance with these conditions.

Permitted Activity Cond	dition	Commentary on Compliance				
	Chapter 22 – Network Utilities					
22.1.1 Gas Pressure	22.1.1 Gas Pressure The proposed activity does not include reticulated gas and therefore this Condition is not relevant.					
22.1.2 Electricity Voltage	The proposed activity does not include electricity transmission or distribution and therefore this Condition is not relevant.					
22.1.3 Radio Frequency Radiation	The proposed activity does not generate radio frequency fields and therefore this Condition is not relevant.					
22.1.4 Sites Adjoining the Residential Zone	, ,					

Table 1: Horowhenua District Plan - Relevant Permitted Activity Conditions

¹ "Network Utility includes any:

⁽a) aerial or mast or antennae or dish antennae;

⁽b) tower or pole, including any wind turbine;

⁽c) pole-mounted street light;

⁽d) line for telecommunication, cable television, transmission, sub-transmission, or any distribution line for conveying electricity, including associated pole, or ground mounted switch gear;

⁽e) transformer, substation, compressor station, or pumping station;

⁽f) water supply or irrigation race, drain, or channel;

⁽g) pipeline for the distribution or transmission of natural or manufactured gas and any necessary incidental equipment, including compressors and gate stations;

 ⁽h) water supply, irrigation supply, drainage and sewerage systems, including pipes that collect, drain, dispose and convey water, stormwater, sewage and/or other wastes;

⁽i) navigational aid, lighthouse, or beacon;

⁽j) survey peg or survey monument;

⁽k) meteorological installation;

⁽*l*) telephone booth;

⁽m) Equipment incidental to the household or commercial or industrial connections to such utilities; and

⁽n) Roading and railway lines.

Whether these are for private or public purposes; and includes routine maintenance of these network utilities."

Permitted Activity Conc	lition	Commentary on Compliance	
22.1.5 Undergrounding of Services	 "(a) All new electricity, gas (natural and manufactured) and telecommunication supply lines shall be reticulated underground in the Residential, Greenbelt Residential, Commercial and Industrial Zones. Note: electricity supply lines in this rule do not include high voltage (c) Earthworks associated with installing and maintaining underground reticulated services are permitted activities." 	The existing overhead electricity distribution lines located alongside Tararua Road will be undergrounded as part of the proposed activity in a manner consistent with Condition 22.1.5. On this basis, the proposed activity complies with Condition 22.1.5.	
22.1.6 Underground Services - Reinstatement	"(a) Where network utilities or associated structures are located underground, the ground surface and any vegetation disturbed in the course of installation shall be repaired or replaced as soon as practicable after installation."	Any works associated with underground network utilities will include the reinstatement of the ground surface (where the surface is not occupied by the proposed new crossing and intersection) and therefore the proposed activity complies with Condition 22.1.6.	
22.1.7 Height, Size and Location of Network Utility Buildings	The proposed activity does not include any network Condition is not relevant.	utility buildings and therefore this	
22.1.8 Height of Network Utility Masts, Pylons, Towers Aerials and other Structures	 "(a) All masts, pylons, towers, support structure, aerials, antennas and other structures associated with network utilities and domestic scale renewable energy device shall not exceed the following maximum height requirements: (iv) 25 metres in the Industrial Zone. (v) 20 metres in the Rural Zone, other than Rural zoned parts of the Coastal Environment, Coastal Lakes, Manakau Downlands and Hill Country Landscape Domains" 	All structures associated with the proposed activity do not exceed 20 metres in height and therefore the proposed activity complies with Condition 22.1.8.	
22.1.9 Antennas	The proposed activity does not include any dish or p Condition is not relevant.	anel antennas and therefore this	
22.1.10 Maintenance, Replacement and Upgrading Network Utilities including Generation and Distribution Utilities for Renewable Source of Energy	The proposed activity is a new intersection and level-crossing and therefore this Condition is not relevant.		
	Chapter 16 – Industrial Zone		
16.6.1 Maximum Building Height	The proposed activity does not include any buildings relevant.	s and therefore this Condition is not	
16.6.2 Sites Adjoining Residential Zone, Greenbelt Residential	"(a) Where a site adjoins the Residential Zone, Greenbelt Residential Zone, Open Space	While the proposed activity straddles the boundary between the Rural Zone and the Industrial Zone, all structures	

Permitted Activity Cond	ion		Commentary on Compliance
Zone, Open Space Zone or Rural Zone	shall apply: (i) All buildi either th Residen Rural Zo daylight Residen (ii) All buildi setback Residen Space Z boundar (iii) All buildi storage, shall be fence m minimur	I Zone, the following conditions ings and structures adjoining the Residential Zone, Greenbelt tial Zone, Open Space Zone or one shall comply with the setback envelope of the stial Zone. ings and structures shall be 4.5 metres from the stial Zone boundary, Greenbelt stial Zone boundary, Open Zone boundary or Rural Zone ry. ings, outdoor carparking, servicing and loading areas screened by a close-boarded ade of solid material with a m height of 1.2 metres and a m height of 2 metres."	associated with the proposed activity are able to be located so that they achieve the setbacks from the site boundary in the Rural Zone. Therefore the proposed activity complies with Condition 16.6.2. The proposed activity does not include buildings, outdoor carparking, storage, servicing and loading areas and therefore clause (iii) is not relevant.
16.6.3 Sites with Frontage to State Highway 1	metres from t Street, or Mai Johnston Stre road boundar b) The area betv and the front landscaping s	hall be located closer than 10 he State Highway 1 (Oxford in Road South, Levin, and eet and Russell Street, Foxton) y. ween any building or carpark road boundary shall include a strip. This landscaping strip with the following conditions:	The proposed activity does not include buildings or carparking and therefore this Condition is not relevant.
16.6.4 Signs	following: (i) All signs maximul a Reside Open Sp daylight shall app (ii) All signs exceed (iii) All signs shall be above th	a attached to buildings shall not the highest point of the roof. s extending over a footpath a minimum of 2.5 metres the foot path and 450mm from the kerb of a road or road	The proposed activity includes official signs for traffic safety purposes. Such signs are designed and located to comply with Condition 16.6.4.
16.6.5 Noise	works shall be managed and the provisions – Construction The noise lim	maintenance and demolition e measured, assessed, d controlled in accordance with s of NZS 6803:1999 Acoustics n noise. its in Rule 16.6.5(a),16.6.5(b) shall not apply to the following	Construction activities will be undertaken in a manner that complies with clause (d). While clause (e) provides an exemption to operational noise standards. As such, the proposed activity complies with Condition 16.6.5.

Permitted Activity Con	dition	Commentary on Compliance
	 (ii) Construction, maintenance and demolition work. (iii) The operation of the Main North Island Trunk Railway. (iii) Verbie device the second of the second	
	(iv) Vehicles being driven on a road (within the meaning of Section 2(1) of the Transport Act 1962)"	
16.6.6 Vibration	 "(a) No activity shall create any vibration which exceeds the limits in the following standards: (i) AS 2670.1-2001 Evaluation of human exposure to whole-body vibration – General requirements. (ii) AS 2670.2-1990 Evaluation of human 	The proposed activity will be constructed and operated in a manner that complies with Condition 16.6.6.
	exposure to whole-body vibration - Continuous and Shock-Induced Vibration in Buildings (1 to 80 Hz). (iii) DIN 4150-3:1999 Effects of vibration on structures.	
	(iv) NZS 4403:1976 Code of Practice for Storage, Handling, and Use of Explosives, and any subsequent amendments."	
16.6.7 Odour	The proposed activity does not give rise to any odo relevant.	ur and therefore this Condition is not
16.6.8 Light Spill	"(a) The spill of light from any artificial lighting shall not exceed 10 lux (lumens per square metre) onto any site within the Residential Zone. The maximum lux shall be measured horizontally or vertically at the Residential Zone site boundary."	The proposed activity is located some distance from a Residential Zone and intersection lighting is designed to limit light spill. As such, the proposed activity complies with Condition 16.6.8.
16.6.9 Storage Areas	The proposed activity does not include storage are relevant.	as and therefore this Condition is not
16.6.10 Unsightly Buildings	The proposed activity does include buildings and the	erefore this Condition is not relevant.
16.6.11 Water Supply	"(a) All sites shall be provided with a water supply to meet the capacity and quality requirements of the activities undertaken on the site in accordance with Chapter 24."	The proposed activity does not require a water supply and therefore this Condition is not relevant.
16.6.12 Wastes Disposal	"(a) All wastes (including sewage, effluent, and refuse) that are generated or stored on any site shall be collected, treated, and disposed of in a manner that avoids any significant adverse effects or nuisance for adjoining properties."	The proposed activity does not give rise to sewage, effluent or refuse and therefore this Condition is not relevant.
16.6.13 Surfacewater Disposal	"(a) All activities shall make provision for the management of stormwater as means of dealing with water quantity and water quality to avoid significant adverse effects or nuisance and shall include bunding sufficient to avoid run-off contaminated with	The proposed activity is designed to provide for the management of stormwater that connects into existing adjacent stormwater systems on SH1 and on Tararua Road as appropriate, and as additional road length is not being created, stormwater runoff will

Permitted Activity Conc	ition	Commentary on Compliance	
	hazardous substances, including oil into stormwater drains."	be managed to same degree as current. Therefore, the proposed activity complies with Condition 16.6.13.	
16.6.14 Engineering Works	"(a) All activities, subdivisions and development shall comply with the permitted activity conditions in Chapter 24."	 As relevant to the proposed activity, the conditions in Chapter 24 are achieved and therefore the proposed activity complies with Condition 16.6.14. 	
16.6.15 Vehicle Access	"(a) All activities shall be provided with practicable vehicle access from a public road in accordance with the permitted activity conditions in Chapter 21."	The proposed activity is a public road and as such complies with Condition 16.6.15.	
16.6.16 Vehicle Parking, Manoeuvring, and Loading	"(a) All activities shall provide vehicle parking spaces, manoeuvring areas, and loading facilities in accordance with the permitted activity conditions in Chapter 21."	The proposed activity does not require vehicle parking, manoeuvring areas or loading facilities and therefore this Condition is not relevant in this regard.	
		The design of the level crossing is consistent with the requirements of Chapter 21.	
16.6.17 Safety and Visibility at Road and Rail Intersection	"(a) No building or structure shall be erected, no materials shall be placed, or vegetation planted that would obscure the railway level crossing approach sight triangles as detailed in Rule 21.1.11 in Chapter 21."	designed to achieve compliance with Condition 16.6.17.	
16.6.18 Network Utilities	As set out above		
16.6.19 Hazardous Substances	"(a) All activities using, storing, transporting or disposing of hazardous substances shall comply with the Hazardous Substances Classification parameters for the Industrial Zone in Chapter 23 and shall comply with the permitted activity conditions in that Chapter."	Any use, storage or transportation of hazardous substances associated with construction works complies with conditions and parameters that apply to the Industrial Zone that are set out in Chapter 23.	
16.6.20 Flood Hazard Overlay Area	The proposed activity is not in a Flood Hazard Ov not relevant.	erlay Area and therefore this Condition is	
16.6.21 Notable Trees	The proposed activity is not in the vicinity of notative relevant.	ole tree and therefore this Condition is not	
16.6.22 Sites of significance to Tangata Whenua	The proposed activity is not in the vicinity of a site of significance to Tangata Whenua and therefore this Condition is not relevant.		
16.6.23 Temporary Activities	The proposed activity is not a temporary activity and therefore this Condition is not relevant.		
16.6.24 Temporary Military Training Activities	The proposed activity is not a temporary military training activity and therefore this Condition is not relevant.		
	Chapter 19 – Rural Zone		
19.6.1 Number of Residential Dwelling Units and Family Flats	Residential Dwelling Condition is not relevant.		

Permitted Activity Cond	lition	Commentary on Compliance	
19.6.2 Family Flats Maximum Floor Area	The proposed activity does not include a family flat and therefore this Condition is not relevant.		
19.6.3 Maximum Building Height	The proposed activity does not include any buildings and therefore this Condition is not relevant.		
19.6.4 Daylight Setback Envelope	The proposed activity does not include any buildings relevant.	and therefore this Condition is not	
19.6.5 Building Setbacks from Boundaries and Separation Distances	The proposed activity does not include any buildings relevant.	and therefore this Condition is not	
19.6.6 Home Occupations	The proposed activity is not a home occupation and	therefore this Condition is not relevant.	
19.6.7 Noise Insulation	The proposed activity is not a noise sensitive activity relevant.	and therefore this Condition is not	
19.6.8 Noise	 " (c) Construction, maintenance and demolition work shall be measured, assessed, managed and controlled in accordance with the provisions of NZS 6803:1999 Acoustics – Construction noise. (d) Except the noise limits in Rule 19.6.8 (a) and (b) shall not apply to: (iv) Construction, maintenance and demolition work. (v) The operation of the Main North Island Trunk Railway. (vi) Vehicles being driven on a road (within the meaning of Section 2(1) of the Transport Act 1962), or within a site as part of, or compatible with, a normal residential activity" 	Construction activities will be undertaken in a manner that complies with clause (c). While clause (d) provides an exemption to operational noise standards. As such, the proposed activity complies with Condition 19.6.8.	
19.6.9 Vibration	 "(a) No activity shall create any vibration which exceeds the limits in the following standards: (i) AS 2670.1-2001 Evaluation of human exposure to whole-body vibration – General requirements. (ii) AS 2670.2-1990 Evaluation of human exposure to whole-body vibration - Continuous and shock-induced vibration in buildings (1 to 80 Hz). (iii) DIN 4150-3:1999 Effects of vibration on structures. (iv) NZS 4403:1976 – Code of Practice for Storage, Handling and Use of Explosives, and any subsequent amendments." 	The proposed activity will be constructed and operated in a manner that complies with Condition 19.6.9.	
19.6.10 Odour	The proposed activity does not give rise to any odour and therefore this Condition is not relevant.		
19.6.11 Moutoa Floodway	The proposed activity is not located in the Moutoa F not relevant.	loodway and therefore this Condition is	

Permitted Activity Cond	lition	Commentary on Compliance	
19.6.12 Flood Hazard Overlay Area	The proposed activity is not located in a Flood Hazard Overlay Area and therefore this Condition is not relevant.		
19.6.13 Earthworks- Specific Landscape Domains	The site is not located in the landscape domains to which this Condition applies and therefore the Condition is not relevant.		
19.6.14 Sites of Significance to Tangata Whenua	The proposed activity is not located in the vicinity of Whenua and therefore this Condition is not relevant.		
19.6.15 National Grid Corridor	The proposed activity is not located in the National C Condition is not relevant.	Grid Corridor and therefore this	
19.6.16 Planting Setbacks for Plantation Forestry and Shelterbelt Planting	The proposed activity is not plantation forestry or sho Condition is not relevant.	elterbelt planting and therefore this	
19.6.17 Wastes Disposal	 "(a) All refuse, compost and recyclable materials including scrap metal that are generated or stored on any site shall be collected, treated, and disposed of in a manner that avoids, remedies or mitigates any significant adverse effects or nuisance for: (i) an adjoining property; (ii) any natural habitat or indigenous species; (iii) any outstanding landscape or natural feature. In particular, in accordance with Chapter 24 of this District Plan. 	All materials at the site are to be managed to comply with Condition 19.6.17.	
19.6.18 Water Supply	"(a) All activities occurring on any site shall be supplied with sufficient water suitable for consumption by the people and by the livestock associated with the activity/activities and in accordance with Chapter 24."	The proposed activity does not require a water supply and therefore this Condition is not relevant.	
19.6.19 Surfacewater Disposal	"(a) All activities shall make provision for the management of stormwater as means of dealing with water quantity and water quality to avoid significant adverse effects or nuisance."	The proposed activity is designed to provide for the management of stormwater that connects into existing adjacent stormwater systems on SH1 and on Tararua Road as appropriate, and as additional road length is not being created, stormwater runoff will be managed to same degree as current. Therefore, the proposed activity complies with Condition 19.6.19.	
19.6.20 Engineering Works	"(a) All activities, subdivision and development shall comply with the permitted activity conditions in Chapter 24."	As relevant to the proposed activity, the conditions in Chapter 24 are achieved and therefore the proposed activity complies with Condition 19.6.20.	

Permitted Activity Conc	lition		Commentary on Compliance
19.6.21 Vehicle Access		All activities shall be provided with practicable vehicle access from a public road in accordance with the permitted activity conditions in Chapter 21."	The proposed activity is a public road and as such complies with Condition 19.6.21.
19.6.22 Vehicle Parking, Manoeuvring, and Loading		All activities shall provide onsite vehicle parking spaces, manoeuvring areas, and loading facilities in accordance with the permitted activity conditions in Chapter 21."	The proposed activity does not require vehicle parking, manoeuvring areas or loading facilities and therefore this Condition is not relevant in this regard. The design of the level crossing is consistent with the requirements of Chapter 21
19.6.23 Safety and Visibility at Road and Rail Intersection		No building or structure shall be erected, no materials shall be placed, or vegetation planted that would obscure the railway level crossing approach sight triangles as detailed in Rule 21.1.11 in Chapter 21."	As above, the proposed activity is designed to achieve compliance with Condition 19.6.23.
19.6.24 Network Utilities and Energy	As se	t out above	
19.6.25 Hazardous Substances		All activities using or storing hazardous substances shall comply with the Hazardous Substances Classification parameters for the Rural Zone in Table 23.2 in Chapter 23 and shall comply with all relevant permitted activity standards in that Chapter."	Any use, storage or transportation of hazardous substances associated with construction works complies with conditions and parameters that apply to the Rural Zone that are set out in Chapter 23.
19.6.26 Signs	"(a)	All signs shall relate to, or be associated with, services, products or events available or occurring on the site on which the sign is located, except where specifically provided for as a permitted activity including official signs, temporary signs or signs for the sale or auction of land.	The proposed activity includes official signs for traffic safety purposes. Such signs are designed and located to comply with Condition 19.6.26.
	 (e) (f)	All signs shall comply with the height, and where applicable recession plane requirements, but shall not be required to comply with rules relating to setbacks from road boundaries. No sign shall be illuminated.	
		 No sign shall be erected on, or adjacent to, a road which will: (i) obstruct the line of sight of any corner, bend, intersection or vehicle crossing; (ii) obstruct, obscure or impair the view of any traffic sign or signal; (iii) physically obstruct or impede traffic or pedestrians; (iv) resemble or be likely to be confused with any traffic sign or signal; (v) use reflective materials that may interfere with a road user's vision; 	

Permitted Activity Condition		Commentary on Compliance	
	 (vi) use flashing or revolving lights; or (vii) project light onto the road so as to cause a hazard or distraction to users of the road (including pedestrians). (i) The minimum lettering sizes in Table 19-2 below shall apply to all signs located within 15 horizontal metres of a road:" 		
19.6.27 Notable Trees	The proposed activity is not located in the vicinity of Condition is not relevant.	a notable tree and therefore this	
19.6.28 Activities on the Surface of the Water	The proposed activity is not on the surface of the water and therefore this Condition is not relevant.		
19.6.29 Temporary Activities	The proposed activity is not a temporary activity and therefore this Condition is not relevant.		
19.6.30 Temporary Military Training Activities	The proposed activity is not a temporary military trai Condition is not relevant.	ining activity and therefore this	
19.6.31 Buildings and development within the Muhunoa West Forest Park Overlay	The proposed activity is not located in the Muhunoa therefore this Condition is not relevant.	West Forest Park Overlay and	
19.6.32 Relocated Buildings	The proposed activity does not include relocated bu not relevant.	ildings and therefore this Condition is	

As set out in Table 1, the proposed activity is able to comply with all of the relevant Permitted Activity Conditions and therefore has status as a permitted activity under Rules 16.1(n)(i) and 19.1(m)(i).

Existing Designations

Where the proposed activity is located within designation D2, the works may also be 'authorised' under section 176A of the RMA as follows:

- "(1) Subject to subsection (2), an outline plan of the public work, project, or work to be constructed on designated land must be submitted by the requiring authority to the territorial authority to allow the territorial authority to request changes before construction is commenced.
- (2) An outline plan need not be submitted to the territorial authority if—
 - (a) the proposed public work, project, or work has been otherwise approved under this Act; or
 - (b) the details of the proposed public work, project, or work, as referred to in subsection (3), are incorporated into the designation; or
 - (c) the territorial authority waives the requirement for an outline plan.
- (3) An outline plan must show—
 - (a) the height, shape, and bulk of the public work, project, or work; and
 - (b) the location on the site of the public work, project, or work; and
 - (c) the likely finished contour of the site; and
 - (d) the vehicular access, circulation, and the provision for parking; and
 - (e) the landscaping proposed; and
 - (f) any other matters to avoid, remedy, or mitigate any adverse effects on the environment.

- (4) Within 20 working days after receiving the outline plan, the territorial authority may request the requiring authority to make changes to the outline plan.
- (5) If the requiring authority decides not to make the changes requested under subsection (4), the territorial authority may, within 15 working days after being notified of the requiring authority's decision, appeal against the decision to the Environment Court.
- (6) In determining any such appeal, the Environment Court must consider whether the changes requested by the territorial authority will give effect to the purpose of this Act.
- (7) This section applies, with all necessary modifications, to public works, projects, or works to be constructed on designated land by a territorial authority."

Where the proposed activity is located within designation D1, written consent from KiwiRail Holdings Limited (being the requiring authority responsible for designation D1) will also be required under section 176(1)(b) of the RMA that applies as follows:

- "(b) No person may, without the prior written consent of that requiring authority, do anything in relation to the land that is subject to the designation that would prevent or hinder a public work or project or work to which the designation relates, including—
 - (i) undertaking any use of the land; and
 - *(ii)* subdividing the land; and
 - (iii) changing the character, intensity, or scale of the use of the land."

ATTACHMENT 8: PLANNING ASSESSMENT -ESTABLISHMENT WORKS

Purpose

The following sets out an assessment of the likely Resource Management Act 1991 (RMA) approval requirements from Kāpiti Coast District Council and Horowhenua District Council for the establishment works that are required to be undertaken prior to the commencement of construction of the Ōtaki to north of Levin Highway Project (Ō2NL Project or the Project).

Proposed activity

Establishment works are defined in the proposed designation conditions as follows:

"Preliminary activities undertaken in advance of construction activities commencing, including within a particular stage or geographic area, as follows:

- a) site-wide geotechnical investigations and material reuse testing and earthwork methodology;
- b) topographical surveys;
- c) ecological, cultural, archaeological and heritage surveys and relocations;
- d) baseline monitoring;
- e) contaminated land testing;
- f) protection of and/or relocation of utilities;
- g) formation of site access and haul roads, including temporary stream crossings;
- *h)* formation of construction access tracks and/or reconfiguration of existing of access tracks;
- i) development of the construction yard and main site offices;
- *j)* works associated with the abstraction of water needed to construct the Project and associated reservoirs (for storage);
- *k)* property fencing and demarcation of areas where construction activities will not occur;
- *I) installation of erosion and sediment control measures associated with establishment works;*
- *m)* clearance of vegetation associated with establishment works (and clearing buildings and other features); and
- n) management plan production."

RMA Planning approval requirements – Kāpiti Coast District Council

Kāpiti Coast District Plan – Maps

The Kāpiti Coast District Plan (KCDP) was made operative in 2021. The Project solely traverses land that is in the Rural Production Zone, subject to the Rural Hills Precinct (PREC 24) and the Rural Plains Precinct (PREC 49).

Features in close proximity to the Project are shown on Planning Maps 22 are as follows:

- two ecological sites; and
- Special Amenity Landscape SAL 15 Pukehou.

Existing State Highway 1 is subject to a designation (NZTA-001) for which Waka Kotahi is the requiring authority.

Kāpiti Coast District Plan – Rules

The following Table 1 sets out the relevant rules that apply to the various activities that are establishment works, including a commentary in respect of compliance with those rules.

Table 1: Kāpiti Coast District Plan – Relevant Rules

Establishment works activity	KCDP rule and activity status	Commentary on compliance
Site-wide geotechnical investigations and material reuse testing and earthwork methodology	The proposed activity falls within the definition of 'land disturbance' ¹ . The KCDP only regulates land disturbance in respect of historic heritage features and waahi tapu and other places and areas significant to Māori. As such, no resource consent is required for the proposed activity.	
Topographical surveys	Not applicable	Does not involve physical works
Ecological, cultural, archaeological and heritage surveys and relocations	Not applicable	Does not involve physical works, except for ecological relocations. Such activities are not regulated by the KCDP and, instead, are addressed by the Wildlife Act 1953.
Baseline monitoring	Not applicable	Does not involve physical works
Contaminated land testing	Contaminated land testing is regulated by the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011 (NES-CS) as described below.	
Protection of and/or relocation of utilities	Rule INF-PNU-R3 provides for the operation, maintenance, repair, replacement or removal of any existing network utility as a permitted activity. Rule INF-PNU-R4 provides for the following as a permitted activity:	Works associated with existing network utilities are permitted by Rules INF- PNU-R3 and INF-PNU-R4.
	"1. minor upgrading of any electricity and telecommunication line; and	
	 the upgrading of all other network utilities, excluding: a. electricity transmission lines above 110kV; and 	
	 b. gas distribution pipelines at a pressure exceeding 2000 kilopascals." 	
	The Standards that apply to Rule INF-PNU-R4 are as follows:	
	"1. Upgrading must comply with any permitted activity standard applicable to that network utility under Rules INF-PNU-R9 (Antenna attached to building for network utility purposes); and INF-PNU-R10 (cabinets).	
	2. Poles to support lines for network utility structures must comply with the maximum height of 12 m (above original ground level) and diameter of 300 millimetres.	
	3. Any additional antenna attached to existing masts must not exceed either the maximum height requirements in INF-PNU-R9 or the maximum height of the existing mast, whichever is greater. The additional antenna must not exceed either the maximum diameter requirements in INF_PNU-P0 or the existing diameter of	
	requirements in INF-PNU-R9 or the existing diameter of antenna attached to the mast, whichever is greater."	

¹ "... means the alteration or disturbance of land (or any matter constituting the land including soil, clay, sand and rock) that does not permanently alter the profile, contour or height of the land."

Establishment works	KCDP rule and activity status	Commentary on
activity	Pulle TP P2 provides for the formation of site association	compliance
Formation of site access and haul roads, including temporary stream crossings	Rule TR-R3 provides for the formation of site access as a permitted activity subject to the following Standards: <i>"1. Access - every site must provide vehicular access over land or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and or by mutual right of way or service lane for participe and participe and</i>	It is anticipated that site access points can be designed to achieve the Standards in Rule TR-R3. Where existing access tracks
Formation of construction access tracks and/or reconfiguration of existing of access tracks	 parking and/or loading and shall be in accordance with TR-Diagram - 2. 2. Access - all vehicle accesses must be designed, constructed and maintained to ensure that: a. they are able to be used in all weather conditions; b. they have no adverse impact on the roadside drainage system; and c. surface water and detritus (including gravel and silt) does not migrate onto the highway pavement. 3. Access - all accesses must meet the following: a. be a minimum of 3.5 metres wide, except for as set out in TR-Table 1. b. be a maximum of 9 metres wide 	are repaired or reconfigured Rule EW-R3 applies. The relevant standards are achieved, including through the erosion and sediment control measures required by regional resource consents. Rule EW-R2 provides for any earthworks associated with the formation of new access tracks. Given the topography of the 'subject site' it is anticipated that the volume of material that would constitute 'earthworks' would be limited, however it is acknowledged that it is possible that the establishment works may not achieve the permitted activity standards in respect of
	 Access - sites containing non-residential activities and which provide more than 6 carparks, shall provide two- way accesses which must be a minimum of 6 metres wide. Access to/from a state highway - sites that only have access via a state highway must only have one crossing point and shall be in accordance with Diagrams TR-Diagram - 1 and TR-Diagram - 2. 	
	 Access spacing - at intersections (except on strategic arterial routes) carrying traffic volumes of 1,000 vehicles or more in any peak hour, or at which traffic signals are operating, no part of a crossing point must be located within 30 metres of an intersection or within 60 metres on the departure side of an urban state highway intersection. 	volume and proximity to waterbodies. In the absence of the proposed designation, such earthworks would require a resource consent for a restricted discretionary activity under Rule EW-R5.
	 7. Access spacing - Where a site is located near an intersection having volumes less than 1,000 vehicles in any peak hour; the minimum distance between the crossing point and the roadway edge or kerb line must be: a. 9 metres measured from the intersecting point of the located provide and the standard standard standard from the intersecting point of the located standard standard	
	the kerb lines or road edge lines or 4.5 metres from the tangent point of the kerb lines or road edge whichever is greater; and b. 12 metres where a "Stop" or "Give Way" control	
	exists on the roadway measured from the intersecting point of the kerb lines or road edge lines.	
8.	8. Access spacing for major traffic activities - no crossing point must be located closer to any intersection than the distance specified in TR-Table 2 - Access Distance Dimensions. Distances are measured in metres (m) to the intersecting kerb line.	

Establishment works activity	KCDP rule and activity status	Commentary on compliance
	 Access spacing sight distances - the required minimum sight distance between the access and the road must be in accordance with TR-Diagram - 3 and TR-Table 3 - Sight Distance Dimensions} (where m = metres) Access spacing for state highways - the minimum distance between accesses on the same side of the road must be 7.5 metres for residential activities (excluding visitor accommodation that is not temporary residential rental accommodation) and 15 metres for all other activities. 	
	11. The minimum separation distances between vehicle access to/from a state highway/rural road and an intersection on that state highway/rural road, between a vehicle access to/from a local road and the intersection of that local road with a state highway/rural road and between vehicle accesses to/from a state highway/rural road must meet the provided distances in TR-Table 4 - Access Distance Dimensions for State Highways and Rural Roads (where m = metres, km/h = kilometres per hour, and vpd = vehicles per day)"	
	Rule EW-R2 provides for the following as a permitted activity:	
	"Earthworks, excluding those listed in EW-R3, in all areas except areas subject to flood hazards, outstanding natural features and landscapes, ecological sites, geological features, areas of outstanding natural character, areas of high natural character."	
	The following Standards apply to earthworks permitted by Rule EW-R2:	
	 #1. Earthworks must not be undertaken: a. on slopes of more than 28 degrees; or b. within 20 metres of a waterbody, including wetlands and coastal water. 	
	 In all other areas except as provided for in Standard arthworks must not: 	
	 b. disturb more than 100m³ (volume) of land per subject site in rural zones within a 5 year period; and c. alter the original ground level by more than 1 	
	metre, measured vertically. This standard applies whether in relation to a particular earthwork or as a total of cumulative earthworks within the specified period.	
	 4. Standards 1 and 2 under this rule do not apply, to: a. earthworks associated with farm and forestry tracks permitted under GRUZ-R4, RPROZ-R4, RLZ-R4 and FUZ-R4; 	
	 b. planting trees; c. removing trees; 	

Establishment works activity	KCDP rule and activity status	Commentary on compliance
	 g. drilling bores; h. installing and maintaining services such as water pipes and troughs; 5. Any earthworks must ensure that: a. Surface runoff from the subject site is isolated from other subject sites and existing infrastructure; and b. The potential for silt and sediment to enter the stormwater system or waterbodies in surface runoff from the subject site, is minimised; and c. Erosion and sediment control measures are installed and maintained for the duration of the construction period, where necessary. 6. Accidental Discovery Protocol (HH-Table 1) to be followed for any accidental discovery of a waahi tapu or other cultural site" Rule EW-R3 provides for earthworks associated with the maintenance of accessways as a permitted activity subject to the following Standards: "1. Any earthworks must ensure that: a. surface runoff from the subject site is isolated from other subject sites and existing infrastructure; and b. the potential for silt and sediment to enter the stormwater system or waterbodies in surface runoff from the subject site, is minimised; and c. erosion and sediment control measures are installed and maintained for the duration of the construction period, where necessary. 	
Development of the construction yard and main site offices	Rule RPROZ-R3 provides for buildings and structures as a permitted activity subject to Standards that relate to the height and location of buildings in relation to boundaries. Rule EW-R3 provides for earthworks associated with approved building developments as a permitted activity subject to the Standards set out above.	It is anticipated that the establishment of site offices can be undertaken in a manner that achieves the Standards in Rule RPROZ- R3. If earthworks (as opposed to land disturbance) is required to form the yard, such works are anticipated to be permitted by Rule EW-R3.
Works associated with the abstraction of water	Rule INF-PNU-R5 provides for new network utilities ² as a permitted activity when not located within:	To the extent that water abstraction activities fall

² "Network utilities means any service provided by a network utility operator as defined under Section 166 of the Resource Management Act 1991 and includes:

the distribution of water for supply including irrigation;
 ...or

Establishment works activity	KCDP rule and activity status	Commentary on compliance
needed to construct the Project and associated reservoirs (for storage)	 "1. an ecological site; 2. a well-defined fault avoidance area; 3. a well-defined extension fault avoidance area; 4. an open space (conservation and scenic) zone; 5. an outstanding natural features and landscapes; 6. a river corridor; 7. a stream corridor; 8. a ponding area; 9. a shallow surface flow area; 10. an overflow path; 11. a residual overflow path; or 12. a site containing a historic heritage area, building, structure or place identified in Schedules 7, 8 or 9;" Earthworks for installing and maintaining water pipes are exempt from the volume and location Standards in Rule EW-R2 (by EW-R2(4)). Where earthworks are required for the storage of water, Rule EW-R2 (set out above) that provides for earthworks as a permitted activity, subject to Standards, applies. 	within the definition of network utilities (being the distribution of water for supply to the Project), the works are generally permitted by Rule INF-PNU- R5. In some circumstances, the works may be located in the areas listed in Rule INF- PNU-R5. In the absence of the proposed designation, such works would require a resource consent for a restricted discretionary activity under INF-PNU-R13. Where earthworks are required for the storage of water, it is possible that the establishment works may not achieve the permitted activity standards in respect of earthwork volumes and proximity to waterbodies. In the absence of the proposed designation, such earthworks would require a resource consent for a restricted discretionary activity under Rule EW-R5.
Property fencing and demarcation of areas where construction activities will not occur	The KCDP does not include any general rules that relate to fencing. Rule RPROZ-R1 provides for any activity that is not otherwise specified as a permitted, controlled, restricted discretionary, discretionary or non-complying activity in this chapter as a permitted activity.	Fencing activities are permitted by Rule RPROZ- R1.
Installation of erosion and sediment control measures associated with establishment works.	See above, the Standards that apply to Rules EW-R2 and EW-R3.	The installation of erosion and sediment control measures is a requirement of the Standards that apply to Rules EW-R2 and EW-R3, as such it is considered that these activities are ancillary to earthworks permitted by these rules.
Clearance of vegetation associated with establishment works (and clearing buildings and other features)	 The KCDP does not include rules that regulate the clearance of vegetation generally. Rule ECO-R4 provides for the trimming or modification of indigenous vegetation in the Rural Production Zone as a permitted activity subject to the following Standard: <i>"1. Trimming or modification of indigenous vegetation must not be carried out on any indigenous vegetation that:</i> <i>a. is within an ecological site (Schedule 1);</i> 	The clearance of non- indigenous vegetation is not regulated by the KCDP. Indigenous vegetation clearance as part of enabling works can be undertaken to comply with the relevant Standard in Rule ECO-R4.

9. undertaking a project or work described as a "network utility operation" by regulations made under the Resource Management Act 1991; ..."

Establishment works activity	KCDP rule and activity status	Commentary on compliance
	 b. is a rare and threatened vegetation species (Schedule 3); c. is listed in the schedule of key indigenous tree species (ECO-Table 1) and exceeds either of the maximum size criteria (diameter or height) (excluding planted vegetation) except that ECO- Table 1 shall not apply to indigenous vegetation in the Rural Hills Precinct; or 	
	 d. forms a contiguous areas of more than 100m2 (excluding planted vegetation); except that this contiguous area provision of more than 100m2 of indigenous vegetation shall not apply within the Rural Hills Precinct; or 	
	e. is within 20 metres of a waterbody (including within the waterbody itself) or the coastal marine area excluding planted vegetation) except where required to restore or maintain river crossing structures or culverts to a maximum track width of 10 metres."	
Management plan production	Not applicable	Does not involve physical works.

RMA Planning approval requirements – Horowhenua District Council

Horowhenua District Plan – Maps

The Horowhenua District Plan (HDP) was made operative in 2015. The proposed Ō2NL Project designation is primarily over land that is zoned 'Rural' in the HDP. Much of the rural land within the designation (particularly to the north) is also subject to a 'Versatile Land (LUC Class I & II Soil)' notation. At locations where the Project traverses streams and rivers, the HDP includes a 'Flood Hazard Area' notation.

Landscape Domains traversed by the Project are:

- Levin Koputaroa Domain
- Levin Ohau Domain
- Kuku Domain
- Manakau Downlands Domain
- Hill Country Domain

The following existing designations are also relevant to the Ō2NL Project:

- the North Island Main Trunk Rail Line (NIMT) shown as designation D1 with KiwiRail Holdings Limited being the requiring authority responsible for the designation (Planning Maps 7, 25 and 29);
- existing SH1 shown as designation D2 with Waka Kotahi being the requiring authority responsible for the designation (Planning Maps 7, 10, 25, 28, 29 and 37);
- existing SH57 shown as designation D4 with Waka Kotahi being the requiring authority responsible for the designation (Planning Maps 7, 8, 28, 30 and 32).

The Project traverses land that is zoned 'Greenbelt Residential Deferred' in the operative District Plan. This area is subject to Structure Plan 13 'Gladstone Greenbelt Levin - Queen Street/Tararua Road'. Proposed Plan Change 4 to the HDP seeks to amend Planning Map 30 to apply a 'Residential Zone' over the Tara-Ika Growth Area and replaces Structure Plan 13. PC4 is now subject to various appeals that are being considered by the Environment Court.

Horowhenua District Plan - Rules

The following Table 2 sets out the relevant rules that apply to the various activities that are establishment works, including a commentary in respect of compliance with those rules. This assessment is in respect of the rules that apply to the Rural Zone.

Establishment works activity	HDP rule and activity status	Commentary on compliance
Site-wide geotechnical investigations and material reuse testing and earthwork methodology	The proposed activity does not fall within the definition of 'ear HDP does not regulate such investigations. As such, no reso the proposed activity.	
Topographical surveys	Not applicable	Does not involve physical works
Ecological, cultural, archaeological and heritage surveys and relocations	Not applicable	Does not involve physical works, except for ecological relocations. Such activities are not regulated by the HDP and, instead, are addressed by the Wildlife Act 1953.
Baseline monitoring	Not applicable	Does not involve physical works
Contaminated land testing	Contaminated land testing is regulated by the Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011 (NES-CS) as described below.	
Protection of and/or relocation of utilities	 Rule 19.1(m)(i) provides for the construction, operation, maintenance and minor upgrading of network utilities⁴ as a permitted activity in the Rural Zone. Permitted Activity Condition 19.6.24 requires that: "(a) All network utilities and structures associated with network utilities shall comply with the permitted activity conditions in Chapter 22. 	Works associated with existing network utilities are permitted by Rule 19.1(m)(i) on the basis that the works are consistent with Rule 22.1.10 and therefore other Permitted Activity Conditions do not apply.

Table 1: Horowhenua District Plan – Relevant Rules

³ "Earthworks means any alteration to the existing natural ground level including re-shaping, re-contouring, excavation, backfilling, compaction, stripping of vegetation and top soil and depositing or removal of clean fill. In particular, earthworks does not include:
 (a) Aggregate Extraction;

(b) activities such as cultivation and harvesting of crops, planting trees, removal of trees and horticultural root ripping, where these activities do not reshape or recontour the land;

(c) digging post holes;

(d) drilling bores, digging offal pits, and burials of dead stock and plant waste and installation of services except for the application of Rules 18.6.32(b) and 19.6.14(b) National Grid Corridor."

⁴ "Network Utility includes any:

(b) tower or pole, including any wind turbine;

- (e) transformer, substation, compressor station, or pumping station;
- (f) water supply or irrigation race, drain, or channel;
- (g) pipeline for the distribution or transmission of natural or manufactured gas and any necessary incidental equipment, including compressors and gate stations;

(h) water supply, irrigation supply, drainage and sewerage systems, including pipes that collect, drain, dispose and convey water, stormwater, sewage and/or other wastes;

- (i) navigational aid, lighthouse, or beacon;
- (j) survey peg or survey monument;

- (m) Equipment incidental to the household or commercial or industrial connections to such utilities; and
- (n) Roading and railway lines.

Whether these are for private or public purposes; and includes routine maintenance of these network utilities."

⁽a) aerial or mast or antennae or dish antennae;

⁽c) pole-mounted street light;

⁽d) line for telecommunication, cable television, transmission, sub-transmission, or any distribution line for conveying electricity, including associated pole, or ground mounted switch gear;

⁽k) meteorological installation;

⁽I) telephone booth;

Establishment works activity	HDP rule and activity status	Commentary on compliance
	(b) All other relevant conditions in this part of the District Plan shall also apply to any new network utilities or upgrade of any network utility or associated structures which are not able to meet the permitted activity under Rule 22.1.10."	
	Rule 22.1.10 provides for the maintenance and replacement of the following utilities as a permitted activity:	
	"(i) Existing transformers and lines above ground for conveying electricity at all voltages and capacities.	
	(ii) Existing telecommunication lines.	
	 (iii) Existing telecommunication and radiocommunication facilities. 	
	(iv) Existing buildings and depots.	
	(v) Existing weather radar.	
	(vi) Existing river protection works.	
	(vii) Existing gas transmission and distribution facilities.	
	(viii) Council network utilities."	
	Rule 22.1.10 includes the following notes: <i>"For the purpose of this rule, the term "maintenance and</i>	
	replacement" shall mean any work or activity necessary to continue the operation and/or functioning of an existing utility and shall also provide for the replacement of an existing line, telecommunication line, building, structure or other facility with another of the same or similar height, size or scale, within the same or similar position and for the same or similar purpose; and the addition of extra lines to existing poles or other support structures; and the replacement of existing conductors."	
	"The activities permitted by this Condition are not required to comply with the other conditions in Chapter 22."	
Formation of site access and haul roads, including temporary stream crossings	Rule 19.1(m)(i) (set out above) provides for construction, operation, maintenance and minor upgrading of network utilities (including roading for private purposes) as a permitted activity in the Rural Zone.	Roading for private purposes falls within the definition of network utilities. As such the formation of access tracks and haul roads for the
Formation of construction access tracks and/or reconfiguration of existing of access tracks	 As set out above, where works are not the maintenance and replacement of existing network utilities, the Permitted Activity Conditions in Chapters 19 and 22 apply. These Conditions relate to the following: <u>Chapter 19</u> 19.6.1 Number of Residential Dwelling Units and Family Flats 19.6.2 Family Flats Maximum Floor Area 19.6.3 Maximum Building Height 19.6.4 Daylight Setback Envelope 	Project can be considered network utilities. The majority of Permitted Activity Conditions are not relevant to the formation of access, access tracks and haul road. Those that have the potential to be relevant are as follows:
	 19.6.5 Building Setbacks from Boundaries and Separation Distances 19.6.6 Home Occupations 19.6.7 Noise Insulation 19.6.8 Noise 19.6.9 Vibration 19.6.10 Odour 19.6.11 Moutoa Floodway 	- Flood Hazard Overlay: Condition 19.6.12 sets a volume limit for earthworks, however, the limit does not apply to tracks where the existing ground level is not altered by greater than 0.1

Establishment works activity	HDP rule and activity status	Commentary on compliance
	 19.6.12 Flood Hazard Overlay Area 19.6.13 Earthworks-Specific Landscape Domains 19.6.14 Sites of Significance to Tangata Whenua 19.6.15 National Grid Corridor 19.6.16 Planting Setbacks for Plantation Forestry and Shelterbelt Planting 19.6.17 Wastes Disposal 19.6.18 Water Supply 19.6.19 Surfacewater Disposal 19.6.20 Engineering Works 19.6.21 Vehicle Access 19.6.22 Vehicle Parking, Manoeuvring, and Loading 19.6.23 Safety and Visibility at Road and Rail Intersection 19.6.26 Signs 19.6.27 Notable Trees 19.6.28 Activities on the Surface of the Water 19.6.29 Temporary Activities 19.6.30 Temporary Activities 19.6.31 Buildings and development within the Muhunoa West Forest Park Overlay 19.6.32 Relocated Buildings. Chapter 22 22.1.1 Gas Pressure 22.1.2 Electricity Voltage 22.1.3 Radio Frequency Radiation 22.1.4 Sites Adjoining the Residential Zone 22.1.5 Undergrounding of Services 22.1.6 Undergrounding of Services 22.1.7 Height, Size and Location of Network Utility Buildings 22.1.8 Height of Network Utility Masts, Pylons, Towers Aerials and other Structures 22.1.9 Antennas 22.1.10 Maintenance, Replacement and Upgrading Network Utilities including Generation and Distribution Utilities for Renewable Source of Energy. Rule 19.3.3 provides for any permitted activity within a Flood Hazard Overlay Area (excluding Moutoa Floodway) that does not comply with the permitted activity standards in Rule 19.6.12 as a restricted discretionary activity. 	metres in any 12 month period. - Earthworks – Specific Landscape Domains: Condition 19.6.13 includes a 3 metre cut and fill depth standards for the Hill Country Landscape Domain. - Surfacewater Disposal – Condition 19.6.19 requires that stormwater be managed to avoid effects. - Vehicle Access and Engineering Works – Conditions 19.6.20 and 19.6.21 set the design and construction standard for such works. The formation of access, access tracks and haul roads can comply with the relevant Conditions and therefore has status as a permitted activity. Where located in the Flood Hazard Overlay, the topography of the area limits the situations where Condition 19.6.12 cannot be achieved. In such situations, in the absence of the proposed designation, an access track would require a resource consent for a restricted discretionary activity under Rule 19.3.3.
Development of the construction yard and main site offices	Rule 19.1(m)(i) (set out above) provides for construction, operation, maintenance and minor upgrading of network utilities as a permitted activity in the Rural Zone. As set out above, the Permitted Activity Conditions in Chapters 19 and 22 apply. Further, Rule 19.1(t) provides or temporary activities ⁵ as a permitted activity in the Rural Zone. Permitted Activity	Construction yards and site offices may be considered either a network utility (including network utility buildings) or temporary activities. As such, the proposed activity is a permitted activity, subject to

⁵ "Temporary Activity means any short term activity and any buildings and structures associated with that activity and includes, but is not limited to …"

Establishment works activity	HDP rule and activity status	Commentary on compliance
	Condition 19.6.29 establishes that the maximum building heights do not apply to temporary activities. Rule 19.2(d) provides for the placement of any non- residential relocated building and/or relocated accessory building over 40m ² in gross floor area on any site as a controlled activity.	the relevant Permitted Activity Conditions. It is anticipated that the establishment of site offices can be undertaken in a manner that complies with the relevant Permitted Activity Conditions, including in respect to the bulk and location of building and achieving the construction/formation standards for the yard (including the management of stormwater). Should any relocated building exceed the maximum area in Condition 19.6.32, in the absence of the proposed designation, resource consent would be required for a controlled activity under Rule 19.2(d).
Works associated with the abstraction of water needed to construct the Project and associated reservoirs (for storage)	Rule 19.1(m)(i) provides for construction, operation, maintenance and minor upgrading of network utilities as a permitted activity in the Rural Zone. As set out above, the Permitted Activity Conditions in Chapters 19 and 22 apply. Rule 19.3.3 provides for any permitted activity within a Flood Hazard Overlay Area (excluding Moutoa Floodway) that does not comply with the permitted activity standards in Rule 19.6.12 as a restricted discretionary activity.	The works associated with the abstraction of water can comply with the relevant Permitted Activity Conditions and therefore has status as a permitted activity. That said, should any significant earthworks be undertaken in the Flood Hazard Overlay Condition 19.6.12 may not be achieved. In such situations, in the absence of the proposed designation, works associated with the abstraction of water would require a resource consent for a restricted discretionary activity under Rule 19.3.3.
Property fencing and demarcation of areas where construction activities will not occur	The HDP does not include any general rules that relate to fer consent is required for fencing activities.	ncing. As such, no resource
Installation of erosion and sediment control measures associated with establishment works.	 See above, Permitted Activity Condition 19.6.19 Surfacewater Disposal requires the following: <i>"(a) All activities shall make provision for the management of stormwater as means of dealing with water quantity and water quality to avoid significant adverse effects or nuisance."</i> 	The installation of erosion and sediment control measures is proposed as part of a suite of measures and results in all works, including establishment works, achieving compliance with Permitted Activity Condition 19.6.19.

Establishment works activity	HDP rule and activity status	Commentary on compliance
Clearance of vegetation associated with establishment works (and clearing buildings and other features)	The HDP does not include rules that regulate the clearance of vegetation, buildings, structures or features for new activities, however Rule 22.1.10 provides for the trimming and felling of trees (where not notable trees) and the removal of vegetation for the maintenance, replacement and upgrading of network utilities.	The clearance of vegetation and the removal of buildings, structure or features is not regulated by the HDP. As such, no resource consent is required for such activities.
Management plan production	Not applicable	Does not involve physical works.

Other RMA Planning Approval Requirements

Resource Management (National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health) Regulations 2011

Regulation 8(2) of the NES-CS provides for sampling soil as a permitted activity as follows:

- *"(2)* Sampling the soil of the piece of land is a permitted activity while the following requirements are met:
 - (a) controls to minimise the exposure of humans to mobilised contaminants must—
 - *(i) be in place when the activity begins:*
 - *(ii)* be effective while the activity is done:
 - (iii) be effective until the soil is reinstated to an erosion-resistant state:
 - (b) the soil must be reinstated to an erosion-resistant state within 1 month after the end of the course of sampling for which the activity was done:
 - (c) soil must not be taken away in the course of the activity except as samples taken for the purpose of laboratory analysis:
 - (d) the integrity of a structure designed to contain contaminated soil or other contaminated materials must not be compromised."

Existing designations

Where the proposed activity is located within existing designations for which Waka Kotahi is the requiring authority, it is considered that the establishment works are consistent with the purpose of these existing designations and, as such, the works may also be 'authorised' under section 176A of the RMA as follows:

- "(1) Subject to subsection (2), an outline plan of the public work, project, or work to be constructed on designated land must be submitted by the requiring authority to the territorial authority to allow the territorial authority to request changes before construction is commenced.
- (2) An outline plan need not be submitted to the territorial authority if—
 - (a) the proposed public work, project, or work has been otherwise approved under this Act; or
 - (b) the details of the proposed public work, project, or work, as referred to in subsection (3), are incorporated into the designation; or
 - (c) the territorial authority waives the requirement for an outline plan.
- (3) An outline plan must show—
 - (a) the height, shape, and bulk of the public work, project, or work; and
 - (b) the location on the site of the public work, project, or work; and
 - (c) the likely finished contour of the site; and

- (d) the vehicular access, circulation, and the provision for parking; and
- (e) the landscaping proposed; and
- (f) any other matters to avoid, remedy, or mitigate any adverse effects on the environment.
- (4) Within 20 working days after receiving the outline plan, the territorial authority may request the requiring authority to make changes to the outline plan.
- (5) If the requiring authority decides not to make the changes requested under subsection (4), the territorial authority may, within 15 working days after being notified of the requiring authority's decision, appeal against the decision to the Environment Court.
- (6) In determining any such appeal, the Environment Court must consider whether the changes requested by the territorial authority will give effect to the purpose of this Act.
- (7) This section applies, with all necessary modifications, to public works, projects, or works to be constructed on designated land by a territorial authority."

In respect of the proposed establishment works Waka Kotahi does not consider that an outline plan is is necessary (in accordance with section 176A(2) of the RMA) and as such seeks that the requirement for an outline plan be waived.

Where the proposed activity is located within a designation for which KiwiRail Holdings Limited is the requiring authority responsible, written consent will also be required under section 176(1)(b) of the RMA that applies as follows:

- "(b) No person may, without the prior written consent of that requiring authority, do anything in relation to the land that is subject to the designation that would prevent or hinder a public work or project or work to which the designation relates, including—
 - (i) undertaking any use of the land; and
 - *(ii)* subdividing the land; and
 - (iii) changing the character, intensity, or scale of the use of the land."