

CONDITIONS OF DESIGNATION

Note:

The following acronyms are used in these conditions:

SSCNMP	Site Specific Construction Noise Management Plan
CMP	Construction Management Plan
CNVMP	Construction Noise and Vibration Management Plan
ESCP	Erosion and Sediment Control Plan
GSMCP	Groundwater and Settlement Monitoring and Contingency Plan
NZTA	New Zealand Transport Agency
TMP	Traffic Management Plan

General conditions

These general conditions apply to all the designations granted for this project associated with NH2 and NI in the shared corridor.

1. The activity shall be carried out in general accordance with the plans and all information submitted with the application, as listed in Attachment 1 and including the documents listed below:

Report title and reference	Author	Dated
TO BE POPULATED IN DUE COURSE		
Plan title and reference	Author	Drawing No. Dated Revision
TO BE POPULATED IN DUE COURSE		
Other additional information	Author	Dated
TO BE POPULATED IN DUE COURSE		

Construction Management

2. Prior to commencement of the works authorised by these Designations, the Requiring Authority shall submit a Construction Management Plan or Plans ("CMP") for the relevant project stage to the Council (Team Leader Specialist Integration Compliance) for approval. The purpose of the CMP is to confirm final project details and staging of works to illustrate that the works remain within the limits and standards approved by these conditions and that the construction and operation activities avoid, remedy or mitigate adverse effects on the environment.

On request, the Requiring Authority shall provide a copy of the approved CMP(s) to interested mana whenua entities.

3. Where minor enabling works or isolated works are to be undertaken prior to commencement of the main works, a site-specific CMP commensurate with the scale and effects of the proposed works, may be submitted for the approval of the Council (Team Leader — Specialist Integration Compliance).

Advice note:

In some cases, with the approval of the Council a site-specific CMP may not be required.

4. The CMP required by condition 2 shall include sufficient details relating to the management of

all construction activities associated with the relevant project stage to which it relates, including:

- (a) Details of the site or project manager and the construction liaison person, including their contact details (phone, postal address, email address);
 - (b) An outline construction programme;
 - (c) The proposed hours of work;
 - (d) The measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
 - (e) Location(s) of the site infrastructure including site offices, site amenities, contractors' yards site access, equipment unloading and storage areas, contractor car parking, and security;
 - (f) Procedures for controlling sediment run-off, dust and removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site(s);
 - (g) Procedures for ensuring that residents, road users and businesses in the immediate vicinity of the construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
 - (h) Means of providing for the health and safety of the general public;
 - (i) Procedures for the management of works which directly affect and/or are located in close proximity to existing network utility services;
 - (j) Procedures for responding to complaints about construction activities;
 - (k) Measures to manage the potential impacts of construction on trees and vegetation;
 - (l) Measures to address Crime Prevention Through Environmental Design ("CPTED") issues at and around any construction site(s);
 - (m) Protocols for the management of accidental discoveries of archaeological material;
 - (n) Procedures for the refuelling of plant and equipment;
 - (o) Measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and cleanup;
 - (p) Procedures for the maintenance of machinery to avoid discharges of fuels of lubricants to watercourses and/or the Coastal Marine Area ("CMA");
 - (q) Methods and systems to inform and train all persons working on the site of potential environmental issues and how to avoid remedy or mitigate any potential adverse effects.
5. The approved CMP shall be implemented and maintained throughout the entire construction period for the project or relevant project stage to manage potential adverse effects arising from

construction activities and shall be updated as necessary. Any substantive change to the CMP shall be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval at least ten working days prior to any such change taking effect.

6. At least ten working days prior to commencement of construction works on Council owned reserve land the Requiring Authority shall submit a reinstatement plan for the site to the Council (Team Leader — Specialist Integration Compliance). The reinstatement plan shall be prepared in consultation with the Parks Department. The reinstatement plan shall:
 - a) Identify any existing structures, vegetation, landscape (including soil) and other features on the site to be protected during works or reinstated on completion of the works;
 - b) Identify the location and design of any permanent above-ground water, wastewater and stormwater infrastructure and the associated contouring of ground;
 - c) Include the location and design of any permanent access to the water, wastewater and stormwater infrastructure;
 - d) Include details of proposed landscaping and planting, including implementation and maintenance programmes and soil reinstatement, including at least 300mm of topsoil, in vegetated areas;
 - e) Identify any fencing, signage and gating required as part b) and c) above; and
 - f) Include a summary of all consultation undertaken in relation to the development of the reinstatement plan, how feedback has been incorporated and where feedback has not been incorporated, the reasons why.
7. The Requiring Authority shall prepare a reinstatement plan for all works on privately owned land as per condition 6 above, which addresses those aspects (as relevant to the specific site) identified in condition 6 (a) to (f) above.
8. The proposed planting required by conditions 6 and 7 above shall incorporate use of eco-sourced indigenous species of trees and shrubs as far as practicable. The provenance of these shall be from within the ecological district as is achievable.

Pre-commencement Meeting

9. Prior to the commencement of works (authorized by these designations), the Requiring Authority shall arrange and conduct a pre-start meeting that:
 - a) Is located on the site;
 - b) Is scheduled not less than five days before the anticipated commencement of earthworks;
 - c) Includes relevant and appropriate Auckland Council representatives;
 - d) Includes representation from the contractors who will undertake the works and
 - e) The Requiring Authority shall invite representatives from interested mana whenua entities to attend the pre-start meeting.

The following information shall be made available by the Requiring Authority at the pre-start

meeting:

- a) Timeframes for key stages of the works authorised by the designation;
- b) The designation and resource consent conditions;
- c) The approved CMP;

Terrestrial Ecological Mitigation

10. A Lizard Management Plan including an implementation programme, developed by an appropriately qualified ecologist, shall be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval no less than 20 days prior to the commencement of works. The Lizard Management Plan shall include, but not necessarily be limited to, the following:
- a) Lizard mitigation including capture-relocation methodologies and timeframes;
 - b) Details of habitat enhancement/protection measures;
 - c) Predator control programme including methodologies and timeframes;
 - d) Monitoring to assess the effectiveness of the above mitigation and habitat enhancement measures.

In lieu of the Lizard Management Plan the Requiring Authority is to provide the Council with evidence that a wildlife permit has been granted by the relevant authority for lizard capture and relocation.

11. A Frog Management Plan including an implementation programme, developed by an appropriately qualified ecologist, shall be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval no less than 20 days prior to the commencement of works. The Frog Management Plan shall include, but not necessarily be limited to, the following:
- a) Frog mitigation including capture-relocation methodologies and timeframes;
 - b) Details of habitat enhancement/protection measures;
 - c) Predator control programme including methodologies and timeframes;
 - d) Monitoring to assess the effectiveness of the above mitigation and habitat enhancement measures.

In lieu of the Frog Management Plan the Requiring Authority is to provide the Council with evidence that a wildlife permit has been granted by the relevant authority for frog capture and relocation.

12. Any vegetation removal on land on or adjacent to Wallace Inlet shall be undertaken outside the peak bird breeding season (September — December) unless it is not practicable to do so for reasons which have been discussed and agreed with the Team Leader - Specialist Integration Compliance prior to any such vegetation removal taking place.

Noise and Vibration Management

13. Noise arising from construction activities on land shall be measured and assessed in accordance with NZS 6803:1999 Acoustics - Construction Noise and shall, unless otherwise provided for below, comply with the noise limits set out in the following table:

Day	Time	L _{Aeq}	L _{Amax}
Residential Receivers			
Weekdays	0630h - 0730h	55 dB	75 dB
	0730h - 1800h	70 dB	85 dB
	1800h - 2000h	65 dB	80 dB
	2000h - 0630h	45 dB	75 dB
Saturday	0630h - 0730h	45 dB	75 dB
	0730h - 1800h	70 dB	85 dB
	1800h - 2000h	45 dB	75 dB
	2000h - 0630h	45 dB	75 dB
Sundays and Public Holidays	0630h - 0730h	45 dB	75 dB
	0730h - 1800h	55 dB	85 dB
	1800h - 2000h	45 dB	75 dB
	2000h - 0630h	45 dB	75 dB
Commercial and Industrial receivers			
All	0730h — 1800h	70 dB	
	1800h — 0730h	75 dB	

14. A Construction Noise and Vibration Management Plan ("CNVMP") shall be prepared by an appropriately qualified person, and shall be implemented and maintained throughout the entire construction period. The purpose of the CNVMP is to set out the management procedures and methods to be taken in order to avoid, remedy or mitigate potential noise and vibration effects arising from construction activities on adjacent landowners and occupiers.
15. The CNVMP shall be prepared in accordance with the Noise Management Plan requirements of Annex E2 of NZS6803:1999 and shall describe the measures adopted, as far as practicable, to meet the limits required by condition 13.
16. Further to the CNVMP in condition 14, a Site Specific Construction Noise Management Plan (SSCNMP) shall be prepared for any receiver or activity for which air overpressure is either predicted or measured to exceed the limits in Condition 14, or where construction noise is either predicted or measured to exceed the Project Noise Standards in Condition 19, except where the exceedance of the standards in Condition 16 is less than 5 decibels and does not exceed:
- (a) 0700-2200: 1 period of up to 2 consecutive weeks in any 2 months
 - (b) 2200-0700: 1 period of up to 2 consecutive nights in any 10 days
17. For predicted exceedances of less than 5 decibels (refer condition 16) monitoring shall be undertaken to confirm the actual noise levels. If exceedance is shown to be more than decibels, or the period exceeds those detailed, then a SSCNMP will be prepared.
18. Each CNVMP shall also describe measures to be adopted to meet the requirements of the German Standard DIN4150-3:1999, and as a minimum shall address the following aspects with regard to construction vibration:
- a) Vibration sources, including machinery, equipment and construction techniques to be

used;

- b) Preparation of building condition reports on 'at risk' buildings prior to, during and after completion of works, where for the purposes of this condition an 'at risk' building is one at which the levels in the German Standard DIN4150-3:1999 are likely to be approached or exceeded;
 - c) Use of building condition surveys to determine the sensitivity of the building(s) on the adjacent sites to ground movement in terms of the Line 1-3 criteria of the DIN standard;
 - d) Provision for determining the buildings that will require post-condition surveys;
 - e) Identification of any particularly sensitive activities in the vicinity of the proposed works (e.g. commercial activity using sensitive equipment such as radiography or mass-spectrometry) along with the details of consultation with the land owners and occupiers of the sites where the sensitive activities are located and any management measures that will be adopted based on this consultation;
 - f) The consultation undertaken by the Requiring Authority with affected stakeholders to develop the proposed vibration management measures and any feedback received from those stakeholders, along with the vibration management measures based on this consultation that will be adopted;
 - g) Methods for monitoring and reporting on construction vibration; and
 - h) Methods for receiving and responding to complaints about construction vibration.
19. Construction activities shall comply with the guideline vibration limits set out in DIN 4150-3:1999 unless varied pursuant to conditions 20 and/or 21.
20. The guideline vibration limits set out in DIN4150 must not be exceeded except where the Requiring Authority can demonstrate to the satisfaction of the Council in advance:
- a) That the receiving building(s) are capable of withstanding higher levels of vibration and what the new vibration limit is. The investigation required to demonstrate this must include an assessment of the building(s) by a chartered professional engineer or otherwise appropriately qualified person and a full pre-condition survey; and
 - b) That the Requiring Authority has obtained the written agreement of the building owner(s) and occupier(s), that a higher limit may be applied.
21. The approved CNVMP shall be implemented and maintained throughout the entire construction period. The CNVMP shall be updated when necessary and any change to the CNVMP that may give rise to a higher level of noise or vibration effects for any receiver than authorised by these conditions shall be submitted for the approval of the Council (Team Leader Specialist Integration Compliance).

Traffic Management

22. A detailed Traffic Management Plan or Plans ("TMP") shall be prepared for the project and or specific project site/s by an appropriately qualified person. A copy of the TMP approved by the relevant road controlling authority shall be provided to the Council (Team Leader — Specialist Integration Compliance) at least ten working days prior to the proposed works commencing.

23. The TMP shall describe the measures that will be taken to avoid, remedy or mitigate the traffic effects associated with construction of the project. In particular, the TMP shall describe:
- i. The traffic management measures to maintain traffic capacity and safety or minimise the impact on traffic capacity during weekdays and weekends;
 - ii. Methods to manage the effects of the delivery of construction material, plant and machinery, including associated noise effects;
 - iii. Measures to maintain existing vehicle access to property where practicable, or to provide alternative access arrangements when it will not be;
 - iv. Measures to maintain pedestrian and cyclist movements and reduce the impact on mobility impaired users on roads, cycleways and footpaths adjacent to the construction works. Such access shall be safe, clearly identifiable and seek to minimise significant detours; and to maintain a cycle route where they exist, unless it is not practicable to do so for short periods in order to maintain public health and safety;
 - v. Any road closures that will be required and the nature and the duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;
 - vi. Any proposed monitoring to measure the impact of the works on traffic and vice versa. If safety or operational issues are evident, the methodology for measures to be implemented to address these issues;
 - vii. Measures to manage the proposed access to the site should access be unable to cater for two way traffic passing at the same time, and in particular to minimise reverse movements and blocking of the road; and
 - viii. The availability of on-street and off-street parking if the project sites are unable to accommodate all contractor parking. This is to include an assessment of available parking (if any) for contractors on street and to identify measures to meet and/or reduce contractor parking demand should it be found that there is insufficient on-street parking to meet that demand.
24. The Requiring Authority shall manage the construction activities to minimise the number of heavy vehicles between the causeway and roundabout on Squadron Drive outside the hours of 0730 to 1900 on weekdays and 0730 to 1800 on Saturdays, and all day on any Sundays and public holidays. Heavy vehicles may use Squadron Drive outside those hours in the following limited circumstances:
- (a) Where it is necessary to undertake work outside normal working hours, for example micro-tunnelling under State Highway 18, where it is not feasible to undertake that work at other times due to traffic management requirements associated with work required in the State Highway 18 corridor;
 - (b) For delivery of large equipment or special deliveries required outside of normal hours due to traffic management requirements;
 - (c) Where, due to unforeseen circumstances, it is necessary to complete an activity that has commenced that day;
 - (d) To secure a site or remove a traffic hazard; and / or

- (e) In cases of emergency.
 - (f) As otherwise agreed with the landowners of 1-2 Squadron Drive.
25. Any planned work which is covered by the exceptions in condition 24 (a) — (f), and which is predicted to exceed noise limits set out in condition 13, shall be included in the SSCNMP required by condition 16.
26. Where any work is to be undertaken pursuant to condition 24(a) — (f), the Requiring Authority shall advise the Council (Team Leader Specialist integration Compliance), in advance of that work, or, in **the** case of an emergency, as soon as reasonably practicable.
27. The TMP(s) required by conditions 23, 24 and 25 shall be consistent with the New Zealand Transport Agency's *Code of Practice for Temporary Traffic Management* that applies at the time of construction.
28. Any damage in the road corridor or shared paths directly caused by construction traffic shall be repaired as soon as practicable.

Vegetation Management

29. All works affecting trees shall be carried out in accordance with the recommended tree protection methodology contained in section 3 of the Arboricultural Report — North Harbour 2 Watermain and Northern Interceptor in Shared Corridor, prepared by GreensceneNZ, dated April 2016.

Archaeology and Heritage

30. An appropriately qualified archaeologist shall monitor construction activities during the surficial earthworks and excavation into natural ground and, if deemed necessary by the archaeologist, at other times during construction.
31. Subject to condition 32, if any archaeological sites are exposed during the works, the following procedures will apply:
- a) Immediately after it becomes apparent that an archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
 - b) The Requiring Authority shall immediately secure the area so that any artefacts or remains are untouched;
 - c) The Requiring Authority shall notify Heritage New Zealand, mana whenua and the Council (Team Leader — Specialist Integration Compliance) (and in the case of human remains, the New Zealand Police) as soon as practicable that an archaeological site has been exposed so that appropriate action can be taken. Works shall not recommence in the immediate vicinity of the archaeological site until any approval required from Heritage New Zealand has been obtained; and
 - d) The Requiring Authority shall invite mana whenua cultural monitors to be present during any excavation or disturbance of Maori archaeology.
32. Condition 31 shall not apply where the Requiring Authority holds all relevant approvals under the Heritage New Zealand Pouhere Taonga Act 2014, apart from the requirement in the case of discovery of human remains to contact mana whenua and the New Zealand Police.

Landscape Mitigation

33. Any above ground pipes and structures/pump stations, shall be finished in colours that will blend in with the receiving environment. Building walls and paving materials shall be at a natural reflectivity of no greater than 37% in accordance with BS5252 Groups A and B.
34. All exterior lighting (if required) shall be fixed and no higher than 1 metre above finished ground level, capped, filtered or pointed downwards and screened so as to reduce lux spill. This is with the exception of the pump station site where normal lighting is expected.
35. All planting is to be implemented in the first available planting season (1st April to 30th August) following the completion of construction, if not sooner.
36. As part of construction, detailed landscape plans are to be prepared for sensitive areas and submitted to Council. These plans shall include species planting plans, proposed soil cover preparation, fertiliser, mulching and maintenance plans
37. All landscaping shall be maintained, with any dead, diseased or dying landscaping to be replaced immediately with plants of the same species and at the minimum height at the time of planting as specified in the Landscape Plan.
38. At the conclusion of works areas are to be reinstated to their original condition prior to construction in accordance with conditions 6 and/or 7 above.

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39. All Pipes shall be located as close as practicable to the existing bridge structure at a height below the main bridge deck to maintain open views of the water, while at the same time providing the space required for ongoing maintenance. In some instances there may be engineering, ecological or other requirements which require the pipe location to vary but this should be the starting point in alignment selection.
40. The pipe crossing over Oratia Stream shall be located on the southern side of the bridge, away from the footpath and the Oratia walk and cycleway.
41. The pipe over Paremuka Stream is kept as close as practicable to the existing bridge and below the top of the deck to maintain open views from the bridge to the water, while at the same time providing the space required for ongoing maintenance.
42. A detailed landscape plan shall be prepared to the following sites.
 - (a) the area of the construction site where the pipe exits on Shetland Street; and
 - (b) The intersection at Don Buck Road/Universal Drive, Swanson; and
 - (c) If Option 2 or 3 is selected for the section of pipe through the Oteha Stream and Fern Hill escarpment, then for that area affected by vegetation removal.
43. The detailed landscape plans required in condition 42 shall be prepared and submitted with the relevant outline plan of works. The purpose of the Landscape Plan is to detail how the site will be landscaped following completion of each of the sites identified, in order to minimise visual and landscape effects.
44. The detailed landscape plan shall:
 - a) Identify any existing structures, vegetation or other features on the site to be protected

during the works or reinstated on completion of the works;

- b) Identify location and design of any permanent above-ground water, wastewater and stormwater infrastructure, and the associated ground contouring;
- c) Include the location and design of any permanent access to the water, wastewater and stormwater infrastructure;
- d) Include details of proposed landscaping and planting, including implementation;
- e) Include details of the maintenance and weed management programmes to be carried out for a period of two years to ensure the establishment of new planting on the widened causeway;
- f) Identify any fencing, signage and gating required as part of (b) and (e).

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45. If Option 2 or 3 is selected for the section of pipe through the Oteha Stream and Fern Hill escarpment, then removal of any significant existing native trees should be avoided as far as practicable.

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46. A detailed landscape plan shall be prepared for the site of the Hobsonville pump station. It shall be prepared in accordance with conditions 43 and 44 above and shall be submitted to Council with the relevant outline plan of works.

Cycleways

47. The Requiring Authority shall ensure that any pipebridge is designed so as to not preclude use of the pipebridge for a cycle facility.

Kauri Die Back

48. The Requiring Authority shall ensure that any works within 30 metres of any Kauri will be undertaken in accordance with best practice procedures to prevent the introduction or spread of Kauri Dieback Disease. Best practice procedures will be developed in conjunction with the Manager Biosecurity Auckland Council.

General conditions Resource Consents NH2

These general conditions apply to all the resource consents granted for this project associated with NH2.

1. The activity shall be carried out in general accordance with the plans and all information submitted with the application, as listed in Attachment 1 and including the documents listed below:

Report title and reference	Author	Dated
TO BE POPULATED IN DUE COURSE		

Plan title and reference	Author	Drawing No. Dated Revision
TO BE POPULATED IN DUE COURSE		

Other additional information	Author	Dated
TO BE POPULATED IN DUE COURSE		

2. This consent (or any part thereof) shall not commence until such time as the following charges, owing at the time this decision is notified, have been paid to the Council in full:
 - a. All fixed charges relating to receiving, processing and granting this resource consent under section 36(1) of the Resource Management Act 1991 ("RMA"); and
 - b. All additional charges imposed under section 36(3) to enable the Council to recover its actual and reasonable costs in respect of this application, being costs which are beyond challenge.
3. The consent holder shall pay any subsequent further charges imposed under section 36 of the RMA relating to receiving, processing and granting this resource consent within 20 days of receipt of notification of a requirement to pay the same, provided that, in the case of any additional charges under section 36(3) that are subject to challenge, the consent holder shall pay such amount as is determined by that process to be due and owing, within 20 days of receipt of the relevant decision.
4. Under section 125 of the RMA, this consent will lapse ten years after the date it is granted unless:
 - a. The consent is given effect to; or
 - b. The consent specifies an alternative lapse date; or
 - c. On application the Council extends the period after which the consent will lapse.
5. The consent holder shall pay the Council an initial consent compliance monitoring charge of \$1350 (inclusive of GST), plus any further monitoring charge or charges to recover the actual and reasonable costs incurred to ensure compliance with the conditions of this consent.

Advice note:

The initial monitoring charge is to cover the cost of inspecting the site, carrying out tests, reviewing conditions, updating files, etc, all being work to ensure compliance with the resource consent. In order to recover actual and reasonable costs, inspections, in excess of those covered by the base fee paid, shall be charged at the relevant hourly rate applicable

at the time. The consent holder will be advised of the further monitoring charge or charges as they fall due. Such further charges are to be paid within one month of the date of invoice. Council will issue a letter confirming compliance on request of the consent holder and only after all conditions of the consent have been met.

6. Subject to compliance with the consent holder's health and safety requirements, and provision of reasonable notice, the servants or agents of the Council shall be permitted to have access to relevant parts of the surface construction sites controlled by the consent holder at all reasonable times for the purpose of carrying out inspections, surveys, investigations, tests, measurements and/or to take samples.
7. The Council (Team Leader — Specialist Integration Compliance) shall be informed in writing at least 20 working days prior to the commencement of works authorised by these consents.

Construction Management

8. Prior to commencement of the works authorised by these consents, the consent holder shall submit a Construction Management Plan or Plans ("CMP") for the relevant project stage to the Council (Team Leader Specialist Integration Compliance) for approval. The purpose of the CMP is to confirm final project details and staging of works to illustrate that the works remain within the limits and standards approved by these consents and that the construction and operation activities avoid, remedy or mitigate adverse effects on the environment.

On request, the consent holder shall provide a copy of the approved CMP(s) to interested mana whenua entities.

9. Where minor enabling works or isolated works are to be undertaken prior to commencement of the main works, a site-specific CMP commensurate with the scale and effects of the proposed works, may be submitted for the approval of the Council (Team Leader — Specialist Integration Compliance).

Advice note:

In some cases, with the approval of the Council a site-specific CMP may not be required.

10. The CMP required by condition 8 shall include sufficient details relating to the management of all construction activities associated with the relevant project stage to which it relates, including:
 - (g) Details of the site or project manager and the construction liaison person, including their contact details (phone, postal address, email address);
 - (h) An outline construction programme;
 - (i) The proposed hours of work;
 - (j) The measures to be adopted to maintain the land affected by the works in a tidy condition in terms of disposal / storage of rubbish, storage and unloading of construction materials and similar construction activities;
 - (k) Location(s) of the site infrastructure including site offices, site amenities, contractors' yards site access, equipment unloading and storage areas, contractor car parking, and security;

- (l) Procedures for controlling sediment run-off, dust and removal of soil, debris, demolition and construction materials (if any) from public roads or places adjacent to the work site(s);
- (j) Procedures for ensuring that residents, road users and businesses in the immediate vicinity of the construction areas are given prior notice of the commencement of construction activities and are informed about the expected duration and effects of the works;
- (k) Means of providing for the health and safety of the general public;
- (l) Procedures for the management of works which directly affect and/or are located in close proximity to existing network utility services;
- (m) Procedures for responding to complaints about construction activities;
- (n) Measures to manage the potential impacts of construction on trees and vegetation;
- (o) Measures to address Crime Prevention Through Environmental Design ("CPTED") issues at and around any construction site(s);
- (r) Protocols for the management of accidental discoveries of archaeological material;
- (s) Procedures for the refuelling of plant and equipment;
- (t) Measures to address the storage of fuels, lubricants, hazardous and/or dangerous materials, along with contingency procedures to address emergency spill response(s) and cleanup;
- (u) Procedures for the maintenance of machinery to avoid discharges of fuels of lubricants to watercourses and/or the Coastal Marine Area ("CMA");
- (v) Methods and systems to inform and train all persons working on the site of potential environmental issues and how to avoid remedy or mitigate any potential adverse effects.

11. The approved CMP shall be implemented and maintained throughout the entire construction period for the project or relevant project stage to manage potential adverse effects arising from construction activities and shall be updated as necessary. Any substantive change to the CMP shall be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval at least ten working days prior to any such change taking effect.

Specific conditions Land Use Consent Earthworks Management and Controls (ref to come)

Note: General conditions 1 to 11 also apply to this consent

12. On completion or abandonment of any earthworks at any area of the site all areas of bare earth shall be permanently stabilised against erosion, in accordance with the approved reinstatement plan, to the satisfaction of the Council (Team Leader — Specialist Integration Compliance).
13. Prior to commencement of any earthworks activity on the site, a final Erosion and Sediment Control Plan ("ESCP") shall be prepared and submitted to the Council (Team Leader -

Specialist Integration Compliance) for approval. No earthworks on the site shall commence until written approval from the Council has been provided confirming that the ESCP is satisfactory. The ESCP shall include, but not be limited to:

- a) Specific erosion and sediment control works (location, dimensions, capacity, supporting calculations and design drawings). All controls should be in line with industry best practice as well as the Council's Technical Publication 90; *Erosion and Sediment Control Guidelines for Soil Disturbing Activities in the Auckland Region* ("TP90");
 - b) Catchment boundaries;
 - c) Timing and duration of construction and operation of control works (in relation to the staging and sequencing of earthworks);
 - d) Details relating to the management of exposed areas (e.g. grassing, mulching); and
 - e) Monitoring and maintenance requirements for the proposed erosion and sediment controls.
14. All decanting earth bunds utilised during earthworks shall be designed to ensure they comply with TP90.
15. Where chemical treatment is proposed as part of the Erosion and Sediment Control measures, prior to the commencement of earthworks at the site, a Chemical Treatment Management Plan shall be submitted for written certification by the Council (Team Leader - Specialist Integration Compliance). The Chemical Treatment Management Plan shall include as a minimum:
- a) Specific design details for chemical treatment measures for treatment of any sediment laden water as required, which is to be discharged from the modified impoundment devices / excavation pits / decanting earth bunds, including potential for use of non-chemical flocculants;
 - b) Monitoring, maintenance (including post storm) and contingency programme (including a record sheet);
 - c) Details of optimum dosage (including assumptions);
 - d) Results of initial chemical treatment trial; and
 - e) A spill contingency plan.
16. Prior to earthworks commencing, a certificate signed by a chartered professional engineer or otherwise appropriately qualified person shall be submitted to the Council (Team Leader - Specialist Integration Compliance), to certify that the erosion and sediment controls have been constructed in accordance with the approved ESCP required by condition 13 of this consent.
17. In the event that of earth, mud, dirt or other debris on any public road or footpath resulting from earthworks activity on the site such deposition does occur, it shall immediately be removed by the consent holder. In no instance shall roads or footpaths be washed down with water without appropriate erosion and sediment control measures in place to prevent contamination of the stormwater drainage system, watercourses or receiving waters.
18. The operational effectiveness and efficiency of all erosion and sediment control measures specifically required as a condition of resource consent or by the approved ESCP, shall be maintained throughout the duration of earthworks activity, or until the site is permanently

stabilised against erosion.

19. The site shall be progressively stabilised against erosion at all stages of the earthworks activity, and shall be sequenced to minimise the discharge of contaminants to groundwater or surface water.
20. Erosion and sediment control measures shall be constructed and maintained in accordance with TP 90 and any amendments to that document, except where a higher standard is detailed in the documents referred to in these conditions, in which case the higher standard shall apply.

Specific Conditions — Groundwater Permit - REG-2015-1332

Note: General conditions 1 to 11 also apply to this consent

Expiry Date

21. This permit shall expire on xxx unless it has lapsed, been surrendered or been cancelled at an earlier date.

Performance Standards

22. The consent holder shall ensure that all excavation, dewatering systems, retaining structures and associated works for the pipeline and tunnel construction and associated works are designed, constructed and maintained so as to avoid, as far as practicable, any damage to buildings, structures, services, infrastructure assets such as footpaths, kerbs, catch-pits, pavements and street furniture on the site or adjacent properties.
23. The permanent design of the trenches, micro tunnel, temporary retaining works and permanent backfilling of the trenches and shafts once completed shall not cause groundwater levels at or adjacent to the site to change significantly from the pre construction groundwater levels.
24. The consent holder shall ensure that low permeability trench stops (collars) are constructed along the pipeline to best practice standard and with a minimum of one collar every one vertical metre change in gradient, or as required.
25. The activity shall not cause:
 - a) Greater (steeper) than 1:1000 differential settlement between any two ground surface settlement monitoring stations, located in the vicinity of SH18, or greater (steeper) than 1:500 differential settlement for ground surface monitoring stations for all other locations required by this consent (the "differential ground surface settlement alarm level");
 - b) Greater than **10** mm total settlement at any ground surface settlement monitoring stations on NZTA land in the vicinity of SH18, or 20 mm total settlement for all other ground surface settlement monitoring stations required by this consent (the "total ground surface settlement alarm level");
 - c) Greater than 50 mm deformation at any retaining wall deformation monitoring station associated with the two micro tunnel pits (the "retaining wall deformation alarm level").
26. The alarm levels in condition 25 may be modified as part of the approval process for the Groundwater and Settlement Monitoring and Contingency Plan following feedback from the NZTA in conjunction with conditions 27 a) iii) and a) iv).

Groundwater and Settlement Monitoring and Contingency Plan ("GSMCP")

27. At least 20 days prior to commencement of dewatering, the consent holder shall have a chartered professional engineer or otherwise appropriately qualified person prepare and submit a GSMCP to the Council (Team Leader - Water Allocation, NRSI) for approval. No bulk excavation and/or dewatering activity on the site shall commence until approval from the Council has been provided.
- a) The GSMCP shall include the requirements of this consent including, but not limited to:
 - i) A monitoring location plan, clearly identifying all monitoring locations, and type of monitoring required (groundwater, ground settlement, wall deformation), updating the approximate positions identified in Schedule A and conditions 31 and 32;
 - ii) Full details of the groundwater and ground surface deformation monitoring programme required by this consent including as-built details of monitoring wells (construction, geological log, reduced level, coordinates).
 - iii) Identification of any adjacent services susceptible to damage including those within the SH18 corridor, an assessment of potential effects from construction activities, the proposed measures to minimise potential damage to services due to groundwater and/or mechanical settlement and details of any proposed pre and post construction monitoring or inspection;
 - iv) Acceptable displacement limits of the road network and potentially affected services around the excavation, obtained from the NZTA and the service providers;
 - v) A bar chart, such as a Gantt chart, showing the timing and frequency of the condition surveys and monitoring required by this consent relative to the commencement of dewatering and the completion of dewatering;
 - vi) Proposed groundwater alert and alarm triggers, including methodology for their determination. The groundwater alert and alarm triggers should also take account of seasonal variability;
 - vii) All alert and alarm triggers for each ground deformation mark as determined by conditions of consent, varied following building condition survey or as otherwise approved by the GSMCP;
 - viii) Details of the contingency measures to be implemented if alert or alarm triggers are exceeded, including a response plan;
 - ix) Reporting requirements and templates.
 - b) The approved GSMCP may be varied, including the frequency of monitoring, subject to written approval from the Team Leader Water Allocation, NRSI.
 - c) The approved GSMCP shall be implemented.
28. Where the consent holder is required to access property owned by a third party (including buildings or structures) to undertake any of monitoring, construction of a bore, condition surveys or inspections and that access is declined or subject to what the consent holder

considers to be unreasonable terms, the consent holder shall notify the Council (Team Leader -Water Allocation, NRSI) of that circumstance, and provide the Council with an alternative monitoring plan in accordance with condition 29.

Monitoring — Groundwater

29. Monitoring bores located near the proposed alignment are to be installed to allow groundwater monitoring as specified in Schedule A below. Alternative locations may be accepted subject in all cases to review and approval by the Council (Team Leader - Water Allocation, NRSI). The Council must be informed immediately of any monitoring bore that is damaged or made inoperable and a new monitoring bore, to the same depth and specification, is to be drilled at a nearby location.

Schedule A: Borehole Monitoring Frequency						
Bore Name	Location		Establishment	Monitoring Frequency (to an accuracy of 10mm)		
	Easting	Northing		From bore construction till one month before commencement of active dewatering	One month before commencement of active dewatering	Three months from completion of dewatering
			The holes should be drilled at least two months prior to the commencement of dewatering.	Monthly	Twice-weekly ¹	Monthly ²

30. Provisional groundwater triggers for alert level and alarm level are to be set at 0.5 m and 1.0m respectively below the seasonal low level or RL for the monitoring bores. (The approved GSMCP may amend provisional alert and alarm levels.)

Ground Surface Monitoring

31. The final location of ground surface deformation monitoring stations shall be set out in the GSMCP and shall be maintained, monitored and reported in accordance with Schedule B, or as otherwise agreed with the NZTA, to record any vertical and horizontal movements. Ground surface and building deformation monitoring stations are to be identified, established, maintained, monitored and reported in accordance with Schedule C or as modified by the approved GSMCP. Benchmark positions shall be established no less than 50 metres away from the works.

Schedule B: Ground and Building Monitoring

Location	Frequency	Deformation Monitoring Survey		
		Pre-Excavation/ Baseline	Commencement to Completion of Active Dewatering	Post Dewatering
SH18	Frequency	Twice to a horizontal and vertical accuracy of +/-2mm	Daily	Monthly for 6 months or for a shorter period if written

¹ If the water level readings vary significantly then further readings must be taken to obtain confidence (-1+ 200mm) in the groundwater level/trend prior to commencement of dewatering.

² Subject to a consistent pattern of groundwater records having been obtained in this period in which no evidence of adverse effects is apparent, the monitoring period may be extended at the discretion of Team Leader Water Allocation, NRSI, where the records are not consistent with inferred seasonal trends or predicted groundwater movements

		achieved by precise levelling		approval is obtained from the Council.
All other markers			Twice-weekly	
All Locations	Reporting	Submitted to the Team Leader Water Allocation, NRSI, prior to commencement of excavation	In accordance with condition 97	In accordance with condition 97

Retaining Wall Deformation Monitoring

32. A minimum of eight wall deformation monitoring stations shall be installed at the centre and corner of each wall that supports active motorway lanes and string lines at the two micro tunnel pits or as otherwise agreed with the NZTA and detailed in the GSMCP. These monitoring pins will measure both vertical and lateral wall movement (combined deformation and displacement pins).
33. The consent holder shall survey, record and report the readings of each retaining wall deformation mark in accordance with Schedule C.

Schedule C

Retaining Wall Monitoring (Measurement accuracy shall be to best practice)			
	Baseline: Pre dewatering retaining wall pin	Commencement of dewatering to one month after completion of excavation	Completion of excavation to completion of dewatering
		Retaining Wall pins	Retaining Wall pins
Frequency	Twice to a horizontal and vertical accuracy of +/-2mm achieved by precise levelling	At an average of each 2 metres depth of excavation, and at a minimum frequency of weekly intervals ³	Fortnightly
Reporting	Submitted to the Council prior to the commencement of dewatering	In accordance with condition 97	In accordance with condition 97

Contingency

34. If any damage to buildings, structures or services is caused wholly or in part by the exercise of this consent, the consent holder shall:
- Notify the Council (Team Leader - Water Allocation NRSI) and the asset owner as soon as practicable; and
 - Engage a chartered professional engineer or otherwise appropriately qualified person to prepare a report as soon as practical describing the damage, ascertaining its cause, identifying methods to remedy and mitigate any damage caused and identify the potential for causing further damage. The consent holder is to provide a copy of the report to the Council (Team Leader - Water

³ The consent holder may request approval from the Team Leader Water Allocation, NRSI, for this monitoring to be extended to monthly periods, subject to the level of deformation that has occurred on the site.

Allocation NRSI) and the asset owner.

Alert and Alarm Level Notification

35. The Council (Team Leader - Water Allocation NRSI) shall be notified within 24 hours should any of the following monitoring results eventuate:
- a) Firstly groundwater levels drop below the alert level in monitoring bores, and secondly if groundwater levels drop below the alarm levels, due to the operation of dewatering; or
 - b) Total ground monitoring pin movement at any ground surface settlement monitoring stations within NZTA land in the vicinity of SH18 exceeds 5mm or 20 mm for all other ground surface settlement monitoring stations (the "ground surface settlement monitoring alert level"); or
 - c) The differential ground settlement between any two ground surface monitoring stations on NZTA land in the vicinity of SH18 exceeds 1:2000 or 1:1000 in all other locations (the "differential ground settlement alert level");
 - d) Total retaining wall deformation exceeds 25 mm for any retaining wall deformation monitoring station associated with the two micro tunnel pits (the "Retaining wall deformation alert level").
36. The alert levels in condition 35 may be modified as part of the approval process for the GSMCP with the agreement of the NZTA.
37. In the event of any alert level exceedance of ground surface monitoring trigger levels or alert or alarm level exceedance of groundwater levels in the monitoring bores, associated with construction activities, then the consent holder must:
- a) Notify the Council (Team Leader - Water Allocation NRSI) within 24 hours of the event;
 - b) Notify the NZTA and the Auckland Motorway Alliance in the event that the exceedance is at a monitoring station on NZTA land;
 - c) Re-measure all monitoring stations within 50 metres of the affected monitoring location(s) to confirm the extent of apparent movement and exceedance of the alert level;
 - d) Ensure the data is reviewed by a chartered professional engineer or otherwise appropriately qualified person and seek advice on the need for mitigation measures or other actions and implement such recommendations as appropriate;
 - e) Commission and submit a written report by the chartered professional engineer or otherwise appropriately qualified person responsible for overview of the monitoring to the Council (Team Leader - Water Allocation NRSI), within one week of the alert trigger level exceedance, which provides analyses of all monitoring data, including wall deformation monitoring, relating to the exceedance of any of the alert trigger levels and any recommendations for remedial actions which may include additional monitoring and what actions will be or have already been taken to address the alert level or potentially triggered alarm level;

- f) All monitoring pins within 50 metres are to be measured every two days until such time the written report required by (e) has been submitted to the Council (Team Leader - Water Allocation NRSI).
 - g) The recommendations of the report shall be implemented.
38. In the event of any alarm trigger level exceedance of ground or retaining wall deformation monitoring stations associated with construction activities set out in the approved GSMCP, then the consent holder must take advice from the chartered professional engineer or otherwise appropriately qualified person providing the report in condition 37(e) on actions to avoid remedy or mitigate effects, taking into account any monitoring information subsequent to the report provided, and:
- a) Immediately halt construction activity, including excavation, dewatering and any works contributing to increasing deformation, unless this is considered by the chartered professional engineer in consultant with the Council (Team Leader - Water Allocation NRSI) to be more harmful than continuing;
 - b) Notify the NZTA and the Auckland Motorway Alliance in the event that the exceedance is at a monitoring station on NZTA land;
 - c) Review construction activities which have potential to cause deformation to minimise any further exceedance of triggers, investigate the causes, and allow for any mitigation to be instigated. Once the mitigation measures have been implemented and considered to be effective in avoiding further damage to the satisfaction of the chartered professional engineer or otherwise appropriately qualified person, then construction activities may recommence;
 - d) The consent holder must notify the Council (Team Leader - Water Allocation NRS I) within 24 hours of the alarm exceedance;
 - e) The results of mitigation measures and any remedial works and or agreements with affected parties shall be reported to the Council (Team Leader - Water Allocation NRSI) within one week of recommencement of the works.

Reporting

- 39. The consent holder shall advise the Council (Team Leader - Water Allocation NRSI) in writing at least 10 working days prior to the date of the proposed commencement of dewatering.
- 40. The consent holder shall ensure that a copy of all building condition survey reports required by this consent are held on file and a copy forwarded to the Council (Team Leader - Water Allocation NRSI) within 15 working days of completion of the survey.
- 41. All data collected as required by conditions of this consent from commencement of dewatering to completion of monitoring are to be compiled, compared with the relevant trigger levels, and submitted to the Council (Team Leader - Water Allocation NRSI) on reasonable request unless otherwise specified in this consent, setting out the previous results, providing an explanation for any trends, and providing a construction progress timeline. All such reports are to confirm if differential settlement alert and alarm levels between any deformation monitoring marks were exceeded and if so provide an explanation and details of any remedial actions taken.
- 43. Within 10 working days of completion of construction the consent holder shall advise the

Council (Team Leader - Water Allocation NRS1) in writing, of the date of completion.

Review Condition

42. The groundwater conditions of this consent may be reviewed by the Team Leader Water Allocation, NRSI, pursuant to section 128 of the RMA, by giving notice pursuant to section 129, within six months after the commencement of dewatering and subsequently at intervals of not less than one year thereafter in order:
- a) To vary the quantities, monitoring and reporting requirements, and performance standards, in order to take account of information, including the results of previous monitoring and changed environmental knowledge on:
 - i) ground conditions;
 - ii) aquifer parameters;
 - iii) groundwater levels; and
 - iv) ground surface deformation
- and/or
- b) To deal with any adverse effect on the environment arising or potentially arising from the exercise of this consent, and in particular effects on buildings, structures and services.

Contaminated Land Management (s 15 discharges)

Note: General conditions 1 to 12 also apply to this consent

43. The consent holder shall prepare a Contaminated Land Management Plan to the satisfaction of Team Leader Specialist Integration Compliance Auckland Council. The purpose of this plan is to ensure that if contaminants are excavated during construction, that they are appropriately managed including disposal. The plan shall identify the following:
- Guidance for site staff on how to recognise ground contamination during excavation works;
 - Procedures on how to deal with unforeseen ground contamination such as discovery protocols;
 - Potential ground contamination resulting from construction activities such as inadvertent spillages of fuel while refuelling construction plant and equipment.

Advice Note:

The Council acknowledges that the Contaminated Land Management Plan is intended to provide flexibility for management of the works and contaminated site discharges. Accordingly, this plan may need to be updated. Any updates should be limited to the scope of this consent and consistent with the conditions of this consent. To confirm that any proposed updates are within the scope of the consent, please contact the Council (Team Leader Specialist Integration Compliance on (09) 301 0101.

44. All disturbances of potentially contaminated soil shall be overseen by an appropriately qualified

contaminated land professional who shall ensure that all management options and contingency measures outlined in the Contaminated Land Management Plan (as outlined in condition 43 above) are implemented and all relevant consent conditions are adhered to.

45. All sampling and testing of contamination on the site, if required (eg. for characterisation for disposal purposes), shall be overseen by an appropriately qualified and experienced contaminated land practitioner. All sampling shall be undertaken in accordance with the *Contaminated Land Management Guidelines, No.5 - Site Investigation and Analysis of Soils* Ministry for the Environment, revised 2011.
46. At least two working days prior to commencement the Council (Team Leader, Specialist Integration Compliance) shall be informed in writing about commencement of the land disturbance works.

Advice Note:

Please contact the Team Leader Specialist Integration Compliance to advise of the start of works. The following details should also be provided:

- a) *site address to which the consent relates;*
 - b) *name and telephone number of the project manager and the site owner;*
 - c) *activity to which the consents relate; and*
 - d) *the expected duration of the works.*
47. All excavation in the work areas shall be managed to minimise any discharge of debris, soil, silt, sediment or sediment-laden water from beyond the site to either land, stormwater drainage systems, watercourses or receiving waters. Where required, a silt fence shall be installed along the boundaries of the disturbance areas in accordance with the Council's *Guidelines for Land Disturbing Activities in the Auckland Region*, Technical Publication 90 ("TP90"). The excavation areas shall be dampened during the day when necessary to suppress the generation of dust during the works. Filter cloths or cover mats shall be installed over the stormwater cesspits in the vicinity of the excavation areas.
 48. The soils and/or fill material identified for off-site disposal shall primarily be loaded directly into trucks and shall be covered during transportation off site. If required, temporary stockpiles shall be located inside an area protected by a silt fence and covered with tarpaulins anchored at the edges outside working hours and during periods of heavy rain. All contaminated soil removed from the land disturbance area shall be deposited at a disposal site that holds a consent to accept the relevant level of contamination.
 49. Where it is demonstrated that the soil has been fully characterised in accordance with the Ministry for the Environment's '*Guide to the Management of Clean fills*' (2002) and meets the definition of 'cleanfill' in that document, removal to a consented disposal site is not required. In such circumstances, the Council (Team Leader Specialist Integration Compliance) shall be advised prior its removal from the site.
 50. Any perched groundwater and/or surface run-off water encountered within the excavation areas requiring removal shall be considered potentially contaminated, and shall either:
 - a) Be disposed of by a licensed liquid waste contractor; or
 - b) Be pumped to sewer, providing the relevant permits are first obtained; or

- c) Discharged to the stormwater system or surface waters provided prior testing demonstrates compliance with the Australian and New Zealand Environment Conservation Council ("ANZECC") Guidelines for Fresh and Marine Water Quality (2000) for the protection of 95 percent of marine species.

51. All imported fill shall:

- a) Comply with the definition of 'cleanfill' in '*A Guide to the Management of Clean fills*', published by the Ministry for the Environment (2002); and
- b) Be solid material of an inert nature; and
- c) Not contain hazardous substances or contaminants above natural background levels of the receiving site.

Advice note:

Background levels for the Auckland region can be found in the Council's technical publication TP153 "Background concentrations of inorganic elements in soils from the Auckland Region" (2001).

52. Within three months of completion of soil disturbance activities on the relevant part(s) of the site, a Works Completion Report ("WCR report") shall be provided to the Council (Team Leader Specialist Integration Compliance). The report shall be prepared by an appropriately qualified contaminated land professional and is to include details of any soil sampling undertaken. The WCR report is to contain sufficient detail to address the following matters:

- a) Details and results of any testing undertaken and interpretation of the results in the context of the National Environmental Standard for Assessing and Managing Contamination in Soils to Protect Human Health and Schedule 13(A5) of the Auckland Regional Plan: Air, Land and Water. The report shall meet the requirements of the Contaminated Land Management Guidelines, Reporting on Contaminated Sites in New Zealand, published by the Ministry for the Environment, 2011;
- b) A summary of the works undertaken, including a statement confirming whether the excavations have been completed in accordance with the application reports listed in condition 1 and these conditions;
- c) The location and dimensions of the excavations carried out, including a relevant site plan;
- d) Copies of the disposal dockets for the material removed from the site;
- e) Evidence that all imported fill material complies with the definition of 'cleanfill' in the *Guide to the Management of Clean fills*, Ministry for the Environment (2002);
- f) Records of any unexpected contamination encountered during the works, if applicable;
- g) Details regarding any complaints and/or breaches of the procedures set out in the approved Site Management Plan and the conditions of this consent.

Advice note:

The WCR report performs the function of a works completion report or a site validation report and can be combined into a single document.

53. Where contaminants are identified that have not been anticipated by the application, works in the area containing the unexpected contamination shall cease and the Team Leader Specialist Integration Compliance, Auckland Council is to be notified. Works shall not recommence until confirmation has been received from the Council (Team Leader Specialist Integration Compliance) that disturbance of the unexpected contamination is within the scope of this consent. Any unexpected contamination and contingency measures shall be documented in the WCR report required by these conditions.

Advice Note:

Unexpected contamination may include contaminated soil, perched water or groundwater. Where the unexpected contamination is significantly different in extent and concentration from that anticipated in the original site investigations, handling the contamination may be beyond the scope of this consent and advice should be sought from the Council (Team Leader Specialist Integration Compliance) whether carrying out any further work in the area of the unexpected contamination is within the scope of this consent.

54. This consent will expire on 31 December 2025 unless it has been surrendered or been cancelled at an earlier date.

Specific Conditions — Stormwater Discharge Permit (section 15) - REG-xxx

Note: General conditions 1 to 11 also apply to this consent

Expiry Date

55. This stormwater diversion and discharge permit shall expire on xx unless it has lapsed, been surrendered or been cancelled at an earlier date.

Stormwater Management Works

56. At least 30 days prior to initiation of any construction of stormwater devices on the site, a final detailed design of the stormwater management system must be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval. This shall include, but not be limited to:

- a) Site drainage plan;
- b) Catchment area details for vegetated areas;
- c) Plans and engineering drawings for the stormwater system and associated planting.

The approved stormwater management system is to be implemented.

57. The following stormwater management works shall be constructed for the following catchment areas and design requirements, and shall be completed prior to discharges commencing from the site:

<i>Works to be undertaken</i>	<i>Catchment area: impervious</i>	<i>Design requirement(s)</i>

Modifications approval

58. In the event that any modifications to the stormwater management system are required, that will not result in an application pursuant to section 127 of the RMA, the following information shall be provided to the Council:

- a) Plans and drawings outlining the details of the modifications; and
- b) Supporting information that details how the proposal does not affect the capacity or performance of the stormwater management system.
- c) All information shall be submitted to, and approved by the Council (Team Leader — Specialist Integration Compliance) prior to implementation.

Advice Note:

All proposed changes must be discussed with the Council (Team Leader — Specialist Integration Compliance) prior to implementation. Any changes to the proposal which will affect the capacity or performance of the stormwater management system will require an application to the Council pursuant to section 127 of the RMA. An example of a minor modification can be a change to the location of a pipe or slight changes to the site layout. If there is a change of device type (even proprietary), the consent will have to be varied (s127).

59. As-built plans of the stormwater management works, which are certified (signed) by an appropriately qualified person as a true record of the stormwater management system, shall be provided to the Council (Team Leader — Specialist Integration Compliance) within six months of completion of the works.

60. The as-built plans shall display the entirety of the stormwater management system, being that infrastructure owned by WSL, and shall include:

- a) The surveyed location and level of the discharge structure, with co-ordinates expressed in terms of NZTM and LINZ datum;
- b) Location, dimensions and levels of any overland flowpaths including cross sections and long sections;
- c) Documentation of any discrepancies between the design plans and the as-built plans approved under the modifications approval condition 58.

Operation and Maintenance Plan

61. An Operation and Maintenance Plan for stormwater devices remaining in the Consent Holder's ownership shall be submitted to the Council (Team Leader — Specialist Integration Compliance) for approval within 30 days of completion of installation of the stormwater management system.

62. The Operation and Maintenance Plan shall set out how the stormwater management system in the permanent ownership of the consent holder is to be operated and maintained to ensure that adverse environmental effects are minimised. This plan shall include:
- a) Details of who will hold responsibility for long-term maintenance of the stormwater management system;
 - b) A programme for regular and post storm maintenance and inspection of the stormwater management system;
 - c) General inspection checklists for all aspects of the stormwater management system, including visual checks and
 - d) A programme for inspection and maintenance of vegetation associated with the stormwater management devices.
63. The stormwater management system shall be managed in accordance with the approved Operation and Maintenance Plan.

Overland flow paths provided

64. For stormwater flows, overland flow paths shall be provided and maintained to allow surplus stormwater from critical storms to convey a capacity equivalent to a 100 year ARt event, and to discharge with the minimum of nuisance and damage. The overland flow paths shall be kept free of all obstructions.

Maintenance Record

65. Details of all inspections and maintenance for the stormwater management system, for the preceding three years, shall be retained and provided to the Council (Team Leader — Specialist Integration Compliance) on request. The maintenance records shall include the following information:
- a) Details of who is responsible for maintenance of the stormwater management system;
 - b) Details of any maintenance undertaken; and
 - c) Details of any inspections completed.