EPA 10/2.002 – (WCC: LUC – 2010 - 1035)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Land Use Consent pursuant to Section 89(2) for the construction, operation and maintenance and ancillary activities of a State highway.

Lapse Period: 10 years

Code:

RC = Standard Resource Consent Conditions
CEMP = Construction Environmental Management Plan Conditions
PI = Public Information Conditions
TT = Temporary Traffic Conditions
OT = Operational Traffic Conditions
CNV = Noise and Vibration Conditions – Construction
ON = Noise Conditions – Operation
OV = Vibration Conditions – Operation
AQ = Air Quality Conditions – Construction
LV = Landscape and Visual Conditions
OS = Open Space Conditions
SO = Social Conditions
V = Vegetation Conditions
A = Avian Conditions
H = Herpetofauna Conditions
L = Lighting Conditions
ARCH = Archaeology Conditions
CL = Contaminated Land and Contaminated Discharge Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991.
(the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or

(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the
Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:

   (i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and

   (ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major
Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) **CEMP.2**

The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;
(b) Training requirements for employees, sub-contractors and visitors;
(c) Environmental incident and emergency management;
(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
(e) Environmental complaints management (including the procedures required under Condition PI.4);
(f) Compliance monitoring;
(g) Reporting (including detail on the frequency of reporting to the Auckland Council);
(h) Environmental auditing; and
(i) Corrective action.

12) **CEMP.3**

The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);
(b) Construction Air Quality Management Plan (CAQMP);
(c) Erosion and Sediment Control Plan (ESCP);
(d) Temporary Stormwater Management Plan (TSMP);
(e) Ecological Management Plan (ECOMP);
(f) Groundwater Management Plan (GWMP);
(g) Settlement Effects Management Plan (SEMP);
(h) Contaminated Soils Management Plan (CSMP);
(i) Hazardous Substances Management Plan (HSMP);
(j) Archaeological Site Management Plan (ASMP);
(k) Construction Traffic Management Plan (CTMP);
(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
(m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10); and
(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) **CEMP.6**

The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) details of the site or Project manager and the community liaison person, including their
contact details (phone, facsimile, postal address, email address);
(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;
(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;
(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;
(e) 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 building materials and similar construction activities;
(f) Location of worker’s offices and conveniences (e.g. portaloos);
(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;
(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:
(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);
(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;
(c) Temporary acoustic fences and visual barriers;
(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and
(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.
17) **CEMP.14** The CEMP shall include, as an appendix, an Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP). The EISDCMP shall be provided to the Major Infrastructure Team Manager, Auckland Council, and include:

(a) Methods and measures:

(i) To ensure that the existing high voltage infrastructure can be accessed for maintenance at all reasonable times, or emergency works at all times, during and after construction activities.

(ii) To appropriately manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear, to the overhead transmission lines.

(iii) To ensure that no activity is undertaken during construction that would result in ground vibrations and/or ground instability likely to cause material damage to the transmission lines, including support structures.

(iv) To ensure that changes to the drainage patterns and runoff characteristics do not result in adverse effects from stormwater on the foundations for any high voltage transmission line support structure.

(b) Sufficient detail to confirm that new planting and maintenance of vegetation will comply with the New Zealand Electricity (Hazard from Trees) Regulations 2003, including, but not limited to, the provisions of Schedule (Growth Limit Zones) to those Regulations.

(c) Sufficient detail to confirm that the works will comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001), including, but not limited to, the provisions of:

(i) Clause 2.2 with respect to excavations near overhead support structures;

(ii) Clause 2.4 with respect to buildings near overhead support structures;

(iii) Section 3 with respect to minimum separation between buildings and conductors;

(iv) Section 5 with respect to minimum safe distances for the operation of mobile plant; and,

(v) Table 4 with respect to minimum safe separation distances between the ground and the overhead conductors.

(d) Confirmation that Transpower has been provided a copy of the EISDCMP for their review at least 20 working days prior to construction.

Advice note: With respect to clause (c), specific consideration must be given to the height and location of temporary structures (such as Project offices and other construction site facilities) and permanent structures (such as lighting poles, signage, gantries and acoustic barriers).

18) **CEMP.15** The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations
would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

19) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

20) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

21) CEMP.8 All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

22) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

23) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:
(a) Compliance with designation and consent conditions;
(b) Any changes to construction methods;
(c) Key changes to roles and responsibilities within the Project;
(d) Changes in industry best practice standards;
(e) Changes in legal or other requirements;
(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and
(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

24) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.’

Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.
PUBLIC INFORMATION CONDITIONS

Pre-Construction

25) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for ongoing consultation on all matters of concern to affected parties arising from the Project.

26) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will include details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;
(c) The database of stakeholders and residents who will be communicated with;
(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);
(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);
(f) Any stakeholder specific communication plans required; and
(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

27) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:
(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka
and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:
(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

Construction

28) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:
(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

29) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:
(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;
(b) The NZTA shall maintain a record of all complaints made to this number, email or any
site office, including the full details of the complainant and the nature of the complaint;

(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

30) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(m) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPOARY TRAFFIC CONDITIONS

Pre-Construction

31) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of
construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

32) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

33) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

34) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.
35) TT.5 The NZTA shall consult with the Traffic Operations Manager, Auckland Transport with regard to the most appropriate means for providing access on Council roads within and adjacent to the designation. The NZTA shall also coordinate and consult directly with the proponents of any major construction or major traffic generating event occurring concurrently with, and in the vicinity of the Project.

36) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to, as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.

Construction

37) TT.7 The NZTA shall undertake construction works so as to avoid significant long duration impacts or the full closure of Te Atatu Road for all road users heading to or from the Te Atatu Peninsula and to ensure that access for emergency service vehicles is maintained.

38) TT.8 The NZTA shall restrict construction truck movements during peak hours (6:00 to 9:00 and 16:00 to 19:00) on weekdays and during the peak periods at the weekends to avoid the following:
   (a) Te Atatu Road Interchange, during both morning and afternoon peak hours
   (b) Great North Road Interchange, city bound during the morning peak hours
   (c) Great North Road Interchange, west bound onto SH16 and southbound onto Great North road during the afternoon peak.

Construction truck movements during these hours shall only be allowed under exceptional circumstances agreed in advance with the Traffic Management Project Governance Group.

39) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

40) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.
   (a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
   (b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

41) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.
OPERATIONAL TRAFFIC CONDITIONS

Construction

42) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the Great North Road Interchange.

(g) As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.
Pre-Construction

43) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;
(b) the vibration criteria set out in Condition CNV.4 below; or
(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);
(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;
(iii) Machinery and equipment to be used;
(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;
(vi) Roles and responsibilities of personnel on site;
(vii) Construction operator training procedures;
(viii) Methods for monitoring and reporting on construction noise and vibration;
(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;
(x) Management schedules containing site specific information;
(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:
   • PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the commencement of works.
   • Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such works.
The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.

Construction

44) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public Holidays</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>
(b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB $L_{Aeq(T)}$ All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB $L_{Aeq(T)}$ Bedrooms</td>
</tr>
</tbody>
</table>

(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB $L_{Aeq(T)}$ or existing, whichever is the higher classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB $L_{Aeq(T)}$ or existing, whichever is the higher School hall, lecture theatres</td>
</tr>
</tbody>
</table>

Note: In Condition CNV2(d) “Teaching hours” means:

Primary schools and Kindergartens: 9am to 3pm

Unitec: 8am to 9pm
45) **CNV.4** Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction vibration received by any building shall be measured and assessed in accordance with the German Standard DIN 4150-3:1999 “Structural vibration – Part 3: Effects of vibration on structures”, and shall comply with the criteria set out as follows:

<table>
<thead>
<tr>
<th>Type of structure</th>
<th>Short-term vibration</th>
<th>Long-term vibration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PPV at the foundation at a frequency of</td>
<td>PPV at horizontal plane of highest floor (mm/s)</td>
</tr>
<tr>
<td></td>
<td>1 - 10Hz (mm/s)</td>
<td>1 - 50 Hz (mm/s)</td>
</tr>
<tr>
<td>Commercial/Industrial</td>
<td>20</td>
<td>20 – 40</td>
</tr>
<tr>
<td>Residential/School</td>
<td>5</td>
<td>5 – 15</td>
</tr>
<tr>
<td>Historic or sensitive structures</td>
<td>3</td>
<td>3 – 8</td>
</tr>
</tbody>
</table>

46) **CNV.7** Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

47) **CNV.8** Pile driving or pile removal shall not be undertaken at night (i.e. during the hours of 20:00 – 06:30).

48) **CNV.13** SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

_Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix)._
NOISE CONDITIONS - OPERATION

General

49) ON.1 For the purposes of Conditions ON.2-ON.14 the following terms will have the following meanings:

- BPO – means Best Practicable Option.
- Building Modification Mitigation – has the same meaning as in NZS 6806:2010.
- Design Year – means a point in time that is 10 years after the opening of the Project to the public.
- Emergency Mechanical Services – means mechanical services used for emergency situations only.
- Habitable room – has the same meaning as in NZS 6806:2010.
- Noise Criteria Categories – means groups of preference for time-averaged sound levels established in accordance with NZS 6806:2010 when determining the BPO mitigation option; i.e. Category A - primary noise criterion, Category B - secondary noise criterion and Category C - internal noise criterion.
- PPFs – means only the premises and facilities identified in green, yellow or red in Appendix E.
- Structural mitigation – has the same meaning as in NZS 6806:2010.

Pre-Construction

50) ON.2 The NZTA shall implement the traffic noise mitigation measures identified as the “Preferred Mitigation Options” in Appendix E as part of the Project, in order to achieve the Noise Criteria Categories indicated in Appendix E (“Identified Categories”), where practicable and subject to Conditions ON.3-ON.11 below.

51) ON.3 The detailed design of the structural mitigation measures of the “Preferred Mitigation Options” (the Detailed Mitigation Options) shall be undertaken by a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council prior to construction of the Project, and, subject to Condition ON.4, shall include, as a minimum, the following:

(a) Noise barriers with the location, length and height in general accordance with Appendix E and designed in accordance with the ULDF (Section B) (refer Schedule A, Row 38); and

(b) A requirement that Open Graded Porous Asphalt ("OGPA") or equivalent low-noise generating road surface be used on all surface roads throughout the Project, except at the Great North Road Interchange; and

(c) For the Great North Road Interchange, a requirement that Twin Layer Open Graded Porous Asphalt ("Twin Layer OGPA") or equivalent low-noise generating road surface
52) ON.4 Where the design of the Detailed Mitigation Options identifies that it is not practicable to implement a particular structural mitigation measure in the location or of the length or height included in the "Preferred Mitigation Options", either:

a) If the design of the structural mitigation measures could be changed and would still achieve the same Identified Category at all relevant PPFs, and a suitably qualified expert approved by the Major Infrastructure Team Manager, Auckland Council, certifies to the Auckland Council that the changed structural mitigation measure would be consistent with adopting BPO in accordance with NZS 6806:2010, the Detailed Mitigation Options may include the changed mitigation measures; or

b) If the changed design of the structural mitigation measure would change the Noise Criteria Category at any relevant PPF from Category A or B to Category C but Major Infrastructure Team Manager, Auckland Council confirms that the changed structural mitigation measure would be consistent with adopting BPO in accordance with NZS 6806:2010, the Detailed Mitigation Options may include the changed structural mitigation measures.

53) ON.6 (a) Sectors 1 to 8 - Prior to construction of the Project, a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council shall identify those PPFs within 100m of the edge of the closest traffic lane of the motorway carriageway where, following implementation of all the structural mitigation measures included in the Detailed Mitigation Options:

i. A noise level increase of 3 decibels or more will occur due to road-traffic noise from the Project; and

ii. Habitable spaces are likely to receive in excess of 45 dB LAeq(24h) from motorway operational noise with windows closed, in the Design Year.

For those PPFs, following the process set out in Conditions ON.7 to ON.11, it shall be determined which Building Modification Mitigation is required to achieve 40 dB LAeq inside habitable spaces.

(b) Sector 9 - Prior to construction of the Project, a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council shall identify those PPFs within 100m of the edge of the closest traffic lane of the motorway carriageway where, following implementation of all the structural mitigation measures included in the Detailed Mitigation Options, habitable spaces are likely to receive in excess of 40 dB LAeq(24h) from motorway operational noise with windows closed, in the Design Year. For those PPFs, following the process set out in ON.7 and ON.8, it shall be determined if Building Modification Mitigation may be required to achieve 40 dB LAeq inside habitable spaces. For those PPFs where Building Modification Mitigation is required to achieve 40 dB LAeq inside habitable spaces, this shall be implemented following the process set out in ON.9 to ON.11.

54) ON.7 (a) Prior to commencement of construction of any sector of the Project in the vicinity of a PPF identified under Condition ON.6, the NZTA shall write to the owner of each such building seeking access for the purpose of measuring internal noise levels and assessing the existing building envelope in relation to noise reduction performance.

(b) If the owner(s) of the building approve the NZTA’s access to the property within 12 months of the date of the NZTA’s letter (sent pursuant to Condition ON.7(a)), then no more than six months prior to commencement of construction in any sector of the Project, the NZTA shall instruct a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council, to
visit the building to measure internal noise levels and assess the existing building envelope in relation to noise reduction performance.

**Construction**

55) ON.5 The Detailed Mitigation Options shall be implemented prior to completion of construction of the Project.

56) ON.8 Where a PPF identified under Condition ON.6 is identified, the NZTA shall be deemed to have complied with Condition ON.7 above where:

(a) The NZTA (through its acoustics specialist) has visited the building; or

(b) The owner(s) of the building approved the NZTA’s access, but the NZTA could not gain entry for some reason after repeated attempts; or

(c) The owner(s) of the building did not approve the NZTA’s access to the property within the time period set out in Condition ON.7(b) (including where the owner(s) did not respond to the NZTA’s letter (sent pursuant to Condition ON.7(a) within that period); or

(d) The owner(s) of the building cannot, after reasonable enquiry, be found prior to completion of construction of the Project.

If any of (b) to (d) above apply to a particular Building, the NZTA shall not be required to implement any Building Modification Mitigation at that Building.

57) ON.9 Subject to Condition ON.8, within 6 months of the assessment required under Condition ON.7(b), the NZTA shall give written notice to the owner of each PPF identified under Condition ON.6:

(a) Advising of the options available for Building Modification Mitigation to the building; and

(b) Advising that the owner has three months within which to decide whether to accept Building Modification Mitigation for the building, and if the NZTA has advised the owner that more than one options for building modification mitigation is available, to advise which of those options the owner prefers.

58) ON.10 Once an agreement on Building Modification Mitigation is reached between the NZTA and the owner of an affected building, the mitigation shall be implemented (including the NZTA undertaking any required third party authorisation) in a reasonable and practical timeframe agreed between the NZTA and the owner. Building Modification Mitigation shall be to the standard specified in section 8.3.2 of NZS 6806:2010.

*Advice Note: The NZTA will be responsible for obtaining any necessary building consents or other approvals to undertake the above Building Modification Mitigation.*

59) ON.11 Subject to Condition ON.8, where Building Modification Mitigation is required, the NZTA shall be deemed to have complied with Condition ON.10 above where:

(a) The NZTA has completed Building Modification Mitigation to the Building; or

(b) The owner(s) of the Building did not accept the NZTA’s offer to implement Building Modification Mitigation prior to the expiry of the timeframe stated in Condition ON.9(b) above (including where the owner(s) did not respond to the Requiring Authority within that period); or

(c) The owner of the Building cannot, after reasonable enquiry, be found prior to completion of construction of the Project.
**Post-Construction / Operations**

60) **ON.12** The NZTA shall manage and maintain the Detailed Mitigation Options to ensure that, those mitigation works are maintained to retain their noise attenuation performance indefinitely.

**Monitoring**

61) **ON.14**

(a) Prior to construction, the NZTA shall arrange for a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council to undertake a minimum of 8 (eight) representative measurements of ambient noise levels. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.

(b) Following completion of the work, the NZTA shall arrange for a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council to undertake traffic noise monitoring at the same sites surveyed in Condition ON.14 (a) above, within 2 to 3 years following completion of construction of the Project. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.

(c) The results of the noise level monitoring in accordance with ON.14(b) above shall be used to verify the computer noise model of the Detailed Mitigation Option. A report describing the findings of the verification shall be provided to the Major Infrastructure Team Manager, Auckland Council within one month of it being completed.

**VIBRATION CONDITIONS - OPERATION**

**Pre-Construction**

62) **OV.1** Existing ambient vibration levels shall be measured at critical locations nominated by the NZTA, and submitted to the Major Infrastructure Team Manager, Auckland Council for approval prior to the commencement of works. These baseline measurements will establish pre-Project vibration levels for comparison with future vibration levels.

**AIR QUALITY CONDITIONS - CONSTRUCTION**

**Pre-Construction**

63) **AQ.1** The NZTA shall finalise and implement, through the CEMP, the Construction Air Quality Management Plan (CAQMP) and Concrete Batching and Crushing Management Plan (CBCMP) submitted with the application.

The CAQMP and CBCMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CAQMP and CBCMP includes the following details:

(a) Daily visual monitoring of dust emissions;

(b) Procedures for responding to process malfunctions and accidental dust discharges;

(c) Criteria, including consideration of weather conditions and procedures for use of water sprays on stockpiles and operational areas of the site;
(d) Continuous monitoring of Total Suspended Particulate (TSP) concentrations and meteorology;
(e) Monitoring of the times of detectable odour emissions from the ground;
(f) Procedures for responding to discharges of odour (including in the event of excavation of contaminated sites);
(g) Monitoring of construction vehicle maintenance;
(h) Process equipment inspection, maintenance, monitoring and recording, including baghouses, pressure relief valves and high level alarms;
(i) Complaints investigation, monitoring and reporting; and
(j) The identification of staff and contractors’ responsibilities.

Construction

64) AQ.2 The NZTA shall review the CAQMP and CBCMP at least annually and as a result of any material change to the Project. Any consequential changes will be undertaken in accordance with Condition CEMP.13.

65) AQ.3 All construction activities shall be operated, maintained, supervised, monitored and controlled at all times so that all emissions authorised by this consent are maintained at the minimum practicable level.

66) AQ.4 The NZTA shall undertake construction activities in accordance with the CEMP, CAQMP and CBCMP, such that:
(a) Hard surfaced areas of the construction yards and active construction areas are vacuum swept or scraped down at least twice each week and additionally as reasonably required;
(b) All unsealed areas of the site used for vehicle movement are maintained visibly damp by the use of water sprays or a water cart during weather conditions where the potential for dust emissions exist;
(c) Wheel wash systems are installed at all truck exits from unpaved areas of the site onto public roads are used for all trucks that depart from the site;
(d) All stockpiles are constructed and positioned to minimise the potential for dust emissions. The surfaces of all stockpiles are maintained adequately damp at all times to minimise the release of particulate matter;
(e) Belt conveyors for moving dry materials are fitted with water sprays or enclosed to minimise wind entrainment of dust. Where installed, water suppression is used whenever the conveyors are used for moving dry materials.

67) AQ.5 Unless expressly provided for by conditions of this consent, there shall be no odour, dust or fumes beyond the site boundary caused by discharges from the site which, in the opinion of an enforcement officer, is noxious, offensive or objectionable.

68) AQ.6 All offensive or objectionable dust beyond the boundary of the site caused as a result of processes on the site shall be mitigated forthwith in accordance with the requirements of the Construction Air Quality Management Plan.

69) AQ.7 Beyond the site boundary there shall be no hazardous air pollutant caused by discharges from the site that causes, or is likely to cause, adverse effects on human health, environment or property.

70) AQ.8 No discharges from any activity on site shall give rise to visible emissions, other than water vapour, to an extent which, in the opinion of an enforcement officer, is noxious, dangerous, offensive or objectionable.
**Monitoring - Construction**

71) AQ.14 The NZTA shall undertake visual inspections of dust emissions as follows:

(a) Visual inspections of all active construction areas at least three times daily during October to April inclusive, whenever there are construction activities. The results of visual monitoring shall be logged.

(b) Visual inspections of dust emissions from the concrete batching plants and rock crushing plant shall be undertaken daily while the plant is operating.

72) AQ.15 The operation of water sprays shall be checked at least once each day.

73) AQ.16 Continuous monitoring of TSP concentrations shall be undertaken in at least one location in Sector 1, in at least two locations in Sectors 5 and/or 7, and in at least two locations in Sector 9 while construction activities are being undertaken in those Sectors. The locations of continuous TSP monitors shall, as far as practicable, comply with the requirements of AS/NZ 3580.1.1:2007 Method for Sampling and Analysis of Ambient Air – Guide to Siting Air Monitoring Equipment.

74) AQ.17 Continuous monitoring of wind speed and direction shall be undertaken in at least one location in each of Sector 1, Sectors 5 or 7 and Sector 9 while construction activities are being undertaken in those Sectors. The locations of wind speed and direction monitors shall, as far as practicable, comply with the requirements of AS 2923:1987 Ambient Air – Guide for the Measurement of Horizontal Wind for Air Quality Applications and be at the same locations as the TSP monitors required by Condition AQ.16.

**Reporting - Construction**

75) AQ.19 All records, logs, monitoring and test results that are required by the conditions of this consent shall be made available on request, during operating hours, to an Auckland Council enforcement officer and shall be kept for the duration of the consent.

76) AQ.20 If the monitoring required by Condition AQ.16 shows that concentrations of TSP in ambient air at or beyond the boundary of the site exceeds 80 micrograms/m³ as a 24-hour average, the NZTA shall undertake an investigation into the cause of the exceedance in accordance with the CAQMP.

77) AQ.21 A report into the outcome of any investigation required by Condition AQ.20 shall be forwarded to the Major Infrastructure Team Manager, Auckland Council within 10 working days of the exceedance. If the cause of the exceedance is identified as being an activity undertaken on the site, the report shall also identify additional measures to be taken to reduce discharges of particulate matter into air from that activity.

78) AQ.22 Log books shall be maintained that record all relevant information that is required to demonstrate compliance with the conditions of this consent. This information shall include, but is not limited to:

(a) Visual assessments of any dust emissions from the site and the source;

(b) Any dust control equipment malfunction and any remedial action taken;

(c) When a water cart was used and, if so, the frequency of use and the volume of water used (including identification of location);

(d) All relevant details of the TSP and meteorological monitoring required by Conditions
Any additional dust control measures undertaken; and

The date and time of the entry and the signature of the person entering the information.

79) AQ.23 The NZTA shall maintain a log of any complaints received relating to air quality. Details of each complaint received shall be forwarded to the Major Infrastructure Team Manager, Auckland Council within 24 hours of receipt of the complaint. The log shall include any complaints lodged with the Auckland Council where the Council has informed the NZTA of the complaint. The log shall include, but not be limited to the following:

(a) The date, time, location and nature of the complaint;
(b) Weather conditions at the time of the complaint (including approximate wind speed, wind direction, cloud cover);
(c) Any possible other contributing factors (such as a fire, smoky vehicle, a local chimney emission, etc.);
(d) The name, phone number and address of the complainant (unless the complainant elects not to supply these details);
(e) Any remedial actions undertaken; and
(f) The date and time of the entry and the signature of the person entering the information.

LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

80) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/ designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

81) LV.2 In certifying the UDL Plans, prepared in accordance with Condition LV.1, the Major Infrastructure Team Manager, Auckland Council shall be satisfied the UDL plans includes:

(a) The visual mitigation of infrastructure as detailed in Section B of the UDLF (refer Schedule A, Row 38).
(b) Incorporation of art or art through design of structures, particularly as it relates to noise barriers and the Great North Road Interchange piers and ramps (Refer to clauses (g) and (i) below).
(c) Planting to screen houses and noise walls (including cross section details);
(d) Planting along the corridor on Traherne Island, in accordance with these conditions and the Ecological Management Plan;
(e) Specimen planting on the Great North Road Interchange and the Te Atatu Road.
(f) Specimen planting at the tunnel portals (except where this is within the OPW area);

(g) Finalisation of the noise barriers (as required by Condition ON.3(a)) in accordance with the design principles for noise walls (refer Schedule A, Row 32);

(h) Delineation of the final areas of the Open Space Restoration Plans in accordance with the Open Space Restoration Plans (Schedule A, Row 30), and reference that all works within the Open Space Restoration Plan Areas are subject to Conditions OS.1 to OS.8;

(i) Oakley Inlet Heritage Plan, prepared in accordance with Conditions OS.5, and in particular, consideration shall be given to the design treatment of the Great North Road Interchange piers and ramps to take into consideration the impact of the structures on the visual quality of the open space beneath;

(j) Ecological Management Plan, prepared in accordance with Conditions V.1, A.1, H.1, F.1 and M.1;

(k) Western Ring Route: Maioro Street Interchange and Waterview Connection - Oakley Creek Rehabilitation and Restoration Guidelines (Boffa Miskell, 2010); and

(l) Details of artworks or art through design of structures within the Project (e.g. design detailing of median barriers, bridge railings, safety barriers, piers, retaining walls and tunnel portals), in accordance with Section B of the Urban Landscape and Design Framework (UDLF June 2010) (refer Schedule A, Row 38) and F.8: Plans of Structures and Architectural Features, but excluding the north and south ventilation buildings, plans sections and elevations.

82) LV.8 The NZTA shall ensure that any areas within the designation affected by construction activities have sub-soil rehabilitated and top-soil replaced so that the hydrological response including the volume of stormwater runoff generated is as close as practicable to the predevelopment situation. The methodologies to achieve this shall be documented and provided to the Major Infrastructure Team Manager, Auckland Council with the revised ULD Plans submitted pursuant to Condition LV.1.

83) LV.10 The UDL Plans shall identify all Amenity Trees required to be removed over the construction of the Project (in accordance with Condition CEMP.6(o) and (p)). Replacement trees shall be sized at 160Lt and will either draw from the Coastal Forest or Basalt Rock Forest ecotypes listed in the Landscape Planting Schedules (provided in F.16, refer Schedule A, 17) or an agreed alternative species (confirmed by Major Infrastructure Team Manager, Auckland Council), except in the case of those trees subject to Condition ARCH.9.

Advice note: This does not necessary apply to any replacement planting in the Open Space Restoration Plan areas, which will be confirmed in approval from Auckland Council and will be in accordance with relevant Auckland Council Park guidelines (see Condition OS.4).

Construction

84) LV.7 The NZTA shall ensure that the Temporary Embankments constructed for the Causeway are located on the seaward side of SH16 between the motorway end of Rosebank Road and the bridge over the Waterview Inlet.

Post-Construction / Operations

85) LV.3 The NZTA shall have implemented the UDL Plans within 6 months of practical completion of construction of the Project.

86) LV.4 The landscaping shall be implemented in accordance with the UDL Plans within the first
planting season following the completion of the construction works, provided that climatic conditions are suitable, otherwise at the first practicable opportunity thereafter, and shall be maintained for a period of 10 years thereafter. Should the landscaping be implemented in stages (depending on construction phases), landscaping shall be implemented in accordance with this Condition for each stage unless subsequent construction staging requires use of the proposed landscaping area.

Advice note: On-going control and management of the landscaping within the designation is the responsibility of the NZTA.

87) LV.5 The NZTA shall implement the UDL Plans taking into account the pest plant management guidelines detailed in the Ecological Management Plan (as required by Condition CEMP.3).

88) LV.9 The UDL Plans shall make provision for the rehabilitation of Construction Yard 2 at the completion of SH16 construction works through the close planting of native coastal species within that part of the yard area seaward of the proposed stormwater filter strip. All planting shall be consistent with the native coastal planting referenced in the ECOMP and Condition V.10.

OPEN SPACE CONDITIONS

General

89) OS.1 For the purposes of Conditions OS.2 – OS.15 the following terms will have the following meanings:

- Full size – means a football (soccer) field with the dimensions 100m x 60m.
- Half size – means a football (soccer) field with the dimensions less than 100m x 60m but no smaller than 50m x 30m.
- Toddler – means a playground specifically designed for children between the ages of 1 and 3
- Junior – means a playground specifically designed for children between the ages of 4 and 8
- Youth – means a playground specifically designed for children between the ages of 9 – 14 years
- Open for Play - means the sports field has a level surface and a dense weed-free sward of mature grass, goal posts and lighting if indicated in the Open Space Restoration Plans approved by the Auckland Council.
- Sand - carpeted - means the field has been levelled and irrigated, and conventional sub-soil drains, slit drains and a 50mm deep sand carpet have been installed. The field has been stolonised with a warm season grass such as kikuyu or couch.
- Park furniture – means those items described in the Auckland Council Park Guidelines
- AS2560 – means the Australia New Zealand Standard for lighting of sports fields.
- AS4282 – means the Australia New Zealand Standard for the control of the obtrusive effects of outdoor lighting.
- Way finding exercise – means a process for determining the number, size, location
Skate-park for the purpose of conditions OS.5(b)(iii) means a skate park with a size of approximately 1,400 sq. m. (generally 25 wide x 55m long), incorporating a range of design variations. Suitable for beginners (providing training facilities to develop their skills) but primarily catering for intermediate to advanced level skaters.

BMX bike track for the purpose of condition OS.5(b)(iii) means a low maintenance, non-competition BMX bike track, incorporating a range of design variations. Primarily catering for beginner and intermediate riders.

Construction

90) OS.2 The NZTA shall prepare Open Space Restoration Plans to outline how the open space replacement land, as defined in the Open Space Restoration Plan Areas (Schedule A, Row 30) (including land occupied during construction) will be reinstated or replaced on completion of construction, for handover to Auckland Council and those areas identified in Condition DC.1A(f) and RC.3(f).

Following the consultation detailed in Condition OS.3 below, the Open Space Restoration Plans listed in Condition OS.3(a) to (f) shall be submitted within 12 months of construction commencing in the specific areas affecting the reserves or within 12 months of occupation of open space, whichever is the sooner, to the Major Infrastructure Team Manager, Auckland Council.

Advice note: Conditions OS.9 and OS.10 require certain works to be provided prior to occupation of Construction Yards 6 and 7 (Waterview Reserve) and Construction Yards 9-12 (Alan Wood Reserve) and this may impact on the timing of Open Space Restoration Plans for these areas.

91) OS.3 The Open Space Restoration Plans shall be prepared in consultation with the Auckland Council, Iwi, the Community Liaison Groups (Condition PI.5), NZHPT, and other recreation users and other user representatives identified by Auckland Council. The Open Space Restoration Plans shall comprise the following specific plans:

(a) Waterview Reserve Restoration Plan;
(b) Alan Wood Restoration Plan (including Hendon Park and 25 Valonia Street);
(c) Oakley Creek Esplanade (Waterview Glades) Restoration Plan;
(d) Jack Colvin Park Restoration Plan;
(e) Rosebank Domain Restoration Plan;
(f) Harbourview-Orangihina Reserve Restoration Plan.

(g) The areas of the Open Space Restoration Plans are shown in the Open Space Restoration Plan Areas (Refer Schedule A, Row 30).

92) OS.4 All Open Space Restoration Plans shall be prepared in general accordance with the UDL Plans (Schedule A, Row 30), and shall include, but not be limited to, the following:

(a) Details of, including the location, of any artworks and educational signage, and directional signage. In the case of Alan Wood Reserve, Waterview Reserve and Oakley Creek Esplanade (Waterview Glade) this shall include a "way-finding exercise" in accordance with Auckland Council practice, to determine all signage to be provided; and

(b) Evidence of integration with the Oakley Creek restoration works required under Conditions STW.5, STW.20, V.16 and LV.2(i); and a summary of the consultation undertaken (as required by Condition OS.3) and the response received; and
(c) Details of any vehicle access through the reserves and parking areas; and

(d) Park furniture (including quantity and quality) to be provided in accordance with relevant Auckland Council Park guidelines, except for:

(i) The riparian area within Alan Wood Reserve where the only furniture required is a maximum of 10 seats; and

(ii) Oakley Creek Esplanade (Waterview Glades) where the only furniture required is replacement of 3 existing seats; and

(e) The inclusion and integration of the design for all pedestrian and cycleway linkages and facilities detailed on the PT and Active Mode Transport Routes (Schedule A, Row 22). The design integration shall be in accordance with CPTED principles;

(f) Implementation programme, including sequencing of works and completion dates. This shall include works that could be implemented prior to practical completion of construction works or are outside the Project area (e.g. upgrading of the Waterview Esplanade Reserve set out in Condition OS.5(b)(vii);

(g) Implementation programmes for planting and field reinstatement. This shall include:

(i) A 12 month maintenance period for built structures and soft landscaping; and

(ii) For any landscaping accessible to horses an assessment to demonstrate that the planting schedule is not toxic to horses and that consultation on this has been undertaken with the Te Atatu Pony Club;

(h) The specific requirements for each Restoration Plan area as set out in Conditions OS.5 – OS.8;

(i) Documentation of consultation undertaken required by Condition OS.3 and the views and concerns expressed by this consultation and the written approval of the Manager Community and Cultural Policy.

Advice note: For the avoidance of doubt provision of (a) to (h) above will require elevations, cross sections, engineering drawings and written documentation to supplement the UDL Plans. It is also noted that the UDL Plans identify landscaping, planting and other works beyond the Open Space Restoration Plans (refer Conditions LV.1 – LV.6, LV.9 and LV.10). Educational signs and artworks are particularly encouraged.

93) OS.13 During construction, the NZTA shall maintain pedestrian accessways to all open space available for public use during construction and education facilities where access is affected by the works, including any public access that crosses private land. Such access shall be safe, clearly identifiable, provide appropriate surfacing and seek to minimise significant detours. The access shall be of a same or similar standard as that disrupted and will be provided and maintained by the NZTA.

Advice note: This specifically includes the existing pedestrian access that provides a connection to the crossing over Oakley Creek between 1510 Great North Road and Unitec Mt Albert Campus.
SOCIAL CONDITIONS

Pre-Construction

94) SO.1 In addition to the Community Liaison Groups established pursuant to Condition PI.5, the NZTA shall establish an Education Liaison Group (including representatives from local schools, kindergartens, childcare facilities, Unitec Institute of Technology, the Ministry of Education and Housing New Zealand Corporation), to provide a forum through which:

(a) Relevant monitoring data can be provided (e.g. air quality monitoring);
(b) Notice can be provided of when particularly noisy activities will occur in close proximity to schools and education facilities, to enable the opportunity to identify any potential conflict with particular sensitive periods, and the requirement for specific mitigation strategies (e.g. rescheduling of construction activities where practicable);
(c) Particular concerns can be raised by educational facilities or parents, discussed and potentially addressed;
(d) Notice can be provided of potential construction impacts on school transport routes (including pedestrian/cycle access) to enable the opportunity to identify specific mitigation preferences of the education facilities (e.g. any detour routes) and to enable these facilities to appropriately inform students and/or parents; and
(e) Learning and teaching opportunities for educational facilities to participate in Project works (e.g. planting or artworks).

The Education Liaison Group shall be established at least 2 months prior to construction commencing and shall have regular meetings (at least three monthly) throughout the construction period. The Education Liaison Group shall continue to meet for at least 12 months following the completion of the Project (or less if the members of the Education Liaison Group agree), so that ongoing monitoring information can continue to be disseminated.

95) SO.6 In addition to the Community Liaison Group established pursuant to Condition PI.5, the NZTA shall establish a Working Liaison Group (WLG) inviting the following:

(a) Auckland Council;
(b) Housing New Zealand Corporation;
(c) Te Kawerau Iwi Tribal Authority;
(d) Ngati Whatua o Orakei;
(e) KiwiRail;
(f) Department of Conservation;
(g) Ministry of Education; and
(h) Local Boards.

The purpose of this WLG will be to provide a forum through which:

(a) Opportunities for public work development (including social housing, passenger transport or recreation / open space) are identified in areas where the NZTA confirms that the designation is no longer required (e.g. following construction activities);
(b) Comment can be provided on updated Urban Design and Landscape Plans, including the finalised designs of structural elements for the Project (prior to their submission to the Auckland Council);
(c) Opportunities for integration of other environmental projects (e.g. restoration plantings) are identified;

(d) Consideration is given to appropriate protocols for commencement and completion of construction activities (including blessings for commencement of construction phases); and

(e) Comment can be provided by Te Kawerau a Maki on the detailed lighting design of SH16, to consider how lighting effects on cultural sites and practices might be mitigated without compromising traffic safety or those performance standards identified in Condition L.1.

The Working Liaison Group shall be established at least 2 months prior to construction commencing and shall have regular meetings (at least three monthly) throughout the construction period.

96) SO.7 A schedule of trees that require removal for construction of the Project will be identified and reported to the Community Liaison Group for their consideration of potential provision of timber for heritage projects (including in particular the provision of *Robinia* wood for heritage boat building). If the demand for this timber is identified to the Construction Team, appropriate measures for felling and removal from the site will be confirmed.

**Construction**

97) SO.2 In addition to Condition SO.1(b) above, where noisy construction activities (that are projected to exceed the Noise Criteria in the CNVMP) are proposed in close proximity or adjacent to schools/childcare centres, the NZTA shall, when preparing their SSNMP (in accordance with Condition CNV.1) give specific consideration to options to carry out these works outside school hours or during school holidays as a mitigation option.

**VEGETATION CONDITIONS**

**General**

98) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

**Pre-Construction**

99) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and

(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

100) V.2 The NZTA shall employ a suitably experienced botanist (‘nominated botanist’) for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

101) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all
vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

102) V.11 Prior to commencement of works adjacent to Traherne Island, the NZTA shall employ a suitably qualified and experienced plant translocation expert to uplift and protect all areas of *Mimulus repens* on Traherne Island that will be affected by the work. The *Mimulus repens* shall be relocated to suitable and safe habitat away from the works area, or otherwise held and protected for the duration of the works in the vicinity of their original location and be replanted back at that location (or in close proximity to it) upon completion of the works. The location of the recipient sites will be determined in consultation with the Department of Conservation and in general accordance with the Traherne Island Natural Heritage Restoration Plan (2009 – 2014). Trials shall be undertaken to identify appropriate recipient sites, with these trial sites being monitored for a period of no less than 5 years, or until their failure. Where possible, recipient sites shall be located in currently weed-free areas. Where recipient sites may potentially be affected by weeds, they shall be subject to an on-going weed management plan. Should translocation attempts fail at all trial sites then the NZTA, in consultation with DOC, shall determine an alternative appropriate form of mitigation.

**Construction**

103) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

104) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

105) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

106) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

**Post-Construction / Operations**

107) V.15 Planting along and within the rock revetment of the widened SH16 causeway shall be undertaken by the NZTA at locations in general accordance with the Urban Design and Landscape Plans and planting schedules (Refer Schedule A, Row 17), as identified in those plans under the label “Rock Armour with Saltwater Revetment Planting”. The planting treatments will be in accordance with the concepts of the ECOMP, Appendix I ‘Conceptual Rock Revetment Planting Designs’.

**Monitoring**

108) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.
The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:

(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

AVIAN CONDITIONS

General

Animal pest control shall be undertaken by the NZTA on Traherne Island (northern and southern sides) and on the Coastal Marine Area (CMA) frontage of SH16 from Traherne Island North to Whau Creek, and on the southern side of SH16 from Traherne Island South to Whau River (in accordance with Condition V.17).

Pre-Construction

The NZTA shall finalise, and implement through the CEMP, ECOMP submitted with this application to include the matters set out in Conditions A.2 to A.6.

Construction

The NZTA shall provide temporary high tide roosting structure(s) adjacent to the Causeway during construction, in accordance with the ECOMP, to the satisfaction of the Major Infrastructure Team Manager, Auckland Council. The temporary bird roosts shall be sized in accordance with the ECOMP, and located within the Waterview Estuary adjacent to the southern side of the causeway and in the vicinity of the existing Causeway bridge.

Vegetation clearance at Traherne Island shall occur outside the bird breeding season of September to December. Elsewhere, vegetation clearance shall occur outside the bird breeding season of September to December where practicable.

Monitoring

The NZTA shall employ a suitably qualified ecologist to undertake monitoring of the roosting areas located at:

(a) The existing high tide roost in Harbourview–Orangihina Park; and

(b) The temporary construction roosting structure(s) pursuant to Condition A.2.

Monitoring shall be undertaken on a monthly basis, with a monitoring report prepared on a quarterly basis. The monitoring report shall be made available to the Major Infrastructure Team Manager, Auckland Council and Department of Conservation upon request.

Should the monitoring results indicate that the roosting sites have been abandoned, consultation shall be undertaken with the Department of Conservation and the Major Infrastructure Team Manager, Auckland Council to determine the need for and type of further management strategies (if any) required.
HERPETOFAUNA CONDITIONS

Pre-Construction

116) H.1 The NZTA shall finalise and implement through the CEMP, the ECOMP submitted with this application to include details of lizard management to be undertaken, including the following:
(a) Lizard capture methodology, including timing;
(b) Lizard release locations(s);
(c) Lizard habitat enhancement at population release sites, including a detailed pest control programme for a minimum of one month prior to release and for a minimum of three consecutive years’ duration after release;
(d) Location(s), monitoring and maintenance of lizard protective fencing;
(e) Post-release monitoring methodology; and
(f) Lizard captive management methodology.

LIGHTING CONDITIONS

Pre-Construction

117) L.2 A Temporary Construction Lighting Management Plan shall be prepared for all construction zones and construction yards prior to commencement of any night time works within the construction zones and construction yards. The Temporary Construction Lighting Management Plan shall be independently verified by a lighting specialist and provided to the Major Infrastructure Team Manager, Auckland Council for certification of compliance 10 working days prior to any night time work commencing.

The certification process shall ensure that the Plan includes (but is not be limited to):

a) The layout and arrangement of all temporary lighting required for night time works, and shall show how this avoids the “Light Spill Restriction Zone” identified on the Construction Yard Plans (Refer Schedule A, Row 7) submitted with the application, and that the temporary lighting complies with relevant rules provided in Rule 14 of the Waitakere City District Plan or Part 13 of the Auckland City Bylaw (April 2008);

b) Provision for a 10m buffer between the night time work and any residential boundary at all times to minimise potential for light spill; and

c) General operating procedures outlined in the CEMP.

118) L.3 Asymmetrical floodlights with horizontal glass visors that are not raised more than 3 degrees above the horizontal plane shall be used for any temporary construction night time lighting requirements. Alternative temporary lighting arrangements may be used, subject to the prior approval of the Major Infrastructure Team Manager, Auckland Council, where it can be demonstrated that the proposed lighting is similar or better to asymmetrical floodlights with glass visors. Glare shall be kept below the recommendation given in AS 4282 – 1997 “Control of the Obtrusive Effects of Outdoor Lighting” Tables 2.1 and 2.2.

Post-Construction / Operations

119) L.1 Lighting shall be designed and screened to minimise the amount of lighting overspill and illumination of residential areas, in general accordance with the Waterview Connection...
Lighting Plan (Drawing Set F.11 (Refer Schedule A, Row 12)):
   a) All motorway lighting shall be designed in accordance with "Roadlighting Standard AS/NZS1158";
   b) All other lighting shall be designed in accordance with relevant rules provided in Rule 14 of the Waitakere City District Plan or Part 13 of the Auckland City Bylaw (April 2008);
   c) Fully cut off luminaries shall be used on SH20 from the Southern Tunnel Portal to the Maioro Street Interchange to minimise lighting overspill, as shown on Drawing Set F.11 (Refer Schedule A, Row 12).

ARCHAEOLOGY CONDITIONS

Pre-Construction

120) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:
   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

121) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:
   a) All unmodified areas in the vicinity of Rosebank Road;
   b) All works in the vicinity of the "Oakley Inlet Heritage Area", located adjacent to the Great North Road Interchange;
   c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

122) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

123) ARCH. Advice Note
   Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Construction

124) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:
(a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

CONTAMINATED LAND AND CONTAMINATED DISCHARGES CONDITIONS

Pre-Construction

125) CL.1 The NZTA shall finalise and implement through the CEMP, the Contaminated Soil Management Plan (CSMP) submitted with this application prior to commencement of any site works. The CSMP shall include, but not be limited to:

(a) Measures to be undertaken in the handling, storage and disposal of all material excavated during the construction works;

(b) Soil validation testing and groundwater testing;

(c) Soil verification testing to be undertaken to determine the nature of the excavated spoil and potential reuse or disposal options;

(d) Measures to be undertaken in the event of unexpected contamination being identified during construction activities; and

(e) Measures to be undertaken for the handling of asbestos containing material.

Construction

126) CL.4 All excavated soil shall be tested by the NZTA in general accordance with the CSMP, prior to either reuse on site or disposal off site. The testing regime shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council.

127) CL.5 The NZTA shall notify the Major Infrastructure Team Manager, Auckland Council within 5 working days of identification of any contamination at the site which was not identified in the reports submitted in support of this application, including contaminated soil, surface water or groundwater.

128) CL.6 The removal of any excavated contaminated soil shall be in accordance with the CSMP. The removal and disposal of any contaminated groundwater/ surface water from the site shall be in accordance with the GWMP and the ESCP.

129) CL.7 The NZTA shall engage a suitably qualified contaminated land specialist to supervise the works, excavation and removal of any contaminated soils from the site and undertake sampling (if required) of imported material.

130) CL.8 All testing / sampling techniques shall be carried out in accordance with the Ministry for the Environment Contaminated Land Management Guidelines or other equivalent standards approved in writing by the Major Infrastructure Team Manager, Auckland Council.
Post-Construction / Operations

131) CL.11 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council, a Site Closure Report no later than three (3) months after the completion of the earthworks. The Report shall be prepared in accordance with Schedule 13 (Schedules for Reporting on Contaminated Land) of the Proposed Auckland Regional Plan: Air Land and Water and include:

(a) Results of any soil reuse and imported material testing carried out to ensure compliance with the CSMP;

(b) Volumes of soil removed from site;

(c) Copies of the waste disposal receipts; and

(d) Reports of any non-compliance with the CSMP procedures or complaints received while undertaking the site works.
EPA 10/2.009 – (ACC: R/LUC/2010/3396)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Land Use Consent pursuant to Section 89(2) for the construction, operation and maintenance and ancillary activities of a State highway.

Lapse Period: 10 years

Code:

- RC = Standard Resource Consent Conditions
- CEMP = Construction Environmental Management Plan Conditions
- PI = Public Information Conditions
- TT = Temporary Traffic Conditions
- OT = Operational Traffic Conditions
- CNV = Noise and Vibration Conditions – Construction
- ON = Noise Conditions – Operation
- OV = Vibration Conditions – Operation
- AQ = Air Quality Conditions – Construction
- LV = Landscape and Visual Conditions
- OS = Open Space Conditions
- SO = Social Conditions
- V = Vegetation Conditions
- A = Avian Conditions
- H = Herpetofauna Conditions
- L = Lighting Conditions
- ARCH = Archaeology Conditions
- CL = Contaminated Land and Contaminated Discharge Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991.
(the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or

(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the
Final Conditions:
(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation buildings;
(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1);
(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);
(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;
(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);
(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:
   (i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and
   (ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and
(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to 'brown' to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major
Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) CEMP.2
The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;
(b) Training requirements for employees, sub-contractors and visitors;
(c) Environmental incident and emergency management;
(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
(e) Environmental complaints management (including the procedures required under Condition PI.4);
(f) Compliance monitoring;
(g) Reporting (including detail on the frequency of reporting to the Auckland Council);
(h) Environmental auditing; and
(i) Corrective action.

12) CEMP.3
The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);
(b) Construction Air Quality Management Plan (CAQMP);
(c) Erosion and Sediment Control Plan (ESCP);
(d) Temporary Stormwater Management Plan (TSMP);
(e) Ecological Management Plan (ECOMP);
(f) Groundwater Management Plan (GWMP);
(g) Settlement Effects Management Plan (SEMP);
(h) Contaminated Soils Management Plan (CSMP);
(i) Hazardous Substances Management Plan (HSMP);
(j) Archaeological Site Management Plan (ASMP);
(k) Construction Traffic Management Plan (CTMP);
(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
(m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10);
and
(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) CEMP.6
The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) details of the site or Project manager and the community liaison person, including their
contact details (phone, facsimile, postal address, email address);

(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker's offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers' and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.
The CEMP shall include, as an appendix, an Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP). The EISDCMP shall be provided to the Major Infrastructure Team Manager, Auckland Council, and include:

(a) Methods and measures:

(i) To ensure that the existing high voltage infrastructure can be accessed for maintenance at all reasonable times, or emergency works at all times, during and after construction activities.

(ii) To appropriately manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear, to the overhead transmission lines.

(iii) To ensure that no activity is undertaken during construction that would result in ground vibrations and/or ground instability likely to cause material damage to the transmission lines, including support structures.

(iv) To ensure that changes to the drainage patterns and runoff characteristics do not result in adverse effects from stormwater on the foundations for any high voltage transmission line support structure.

(b) Sufficient detail to confirm that new planting and maintenance of vegetation will comply with the New Zealand Electricity (Hazard from Trees) Regulations 2003, including, but not limited to, the provisions of Schedule (Growth Limit Zones) to those Regulations.

(c) Sufficient detail to confirm that the works will comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001), including, but not limited to, the provisions of:

(i) Clause 2.2 with respect to excavations near overhead support structures;

(ii) Clause 2.4 with respect to buildings near overhead support structures;

(iii) Section 3 with respect to minimum separation between buildings and conductors;

(iv) Section 5 with respect to minimum safe distances for the operation of mobile plant; and,

(v) Table 4 with respect to minimum safe separation distances between the ground and the overhead conductors.

(d) Confirmation that Transpower has been provided a copy of the EISCDMP for their review at least 20 working days prior to construction.

Advice note: With respect to clause (c), specific consideration must be given to the height and location of temporary structures (such as Project offices and other construction site facilities) and permanent structures (such as lighting poles, signage, gantries and acoustic barriers).

The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations
would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

### Construction

19) **CEMP.4** The CEMP shall be implemented and maintained throughout the entire construction period.

20) **CEMP.5** A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

21) **CEMP.8** All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

22) **CEMP.9** Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

23) **CEMP.12** The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

   (a) Compliance with designation and consent conditions;

   (b) Any changes to construction methods;

   (c) Key changes to roles and responsibilities within the Project;

   (d) Changes in industry best practice standards;

   (e) Changes in legal or other requirements;

   (f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and

   (g) Public complaints.

   A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

24) **CEMP.13** Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.’

Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.
PUBLIC INFORMATION CONDITIONS

Pre-Construction

25) PI.1  A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

26) PI.2  The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will includes details of:

(a)  The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b)  In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c)  The database of stakeholders and residents who will be communicated with;

(d)  Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e)  The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f)  Any stakeholder specific communication plans required; and

(g)  Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

27) PI.5  The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:
(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:
(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

Construction

28) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:
(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

29) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:
(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;
(b) The NZTA shall maintain a record of all complaints made to this number, email or any
site office, including the full details of the complainant and the nature of the complaint;

(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions P1.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

30) P1.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

31) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of
construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

32) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

33) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

34) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.
35) TT.5 The NZTA shall consult with the Traffic Operations Manager, Auckland Transport with regard to the most appropriate means for providing access on Council roads within and adjacent to the designation. The NZTA shall also coordinate and consult directly with the proponents of any major construction or major traffic generating event occurring concurrently with, and in the vicinity of the Project.

36) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to, as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.

Construction

37) TT.7 The NZTA shall undertake construction works so as to avoid significant long duration impacts or the full closure of Te Atatu Road for all road users heading to or from the Te Atatu Peninsula and to ensure that access for emergency service vehicles is maintained.

38) TT.8 The NZTA shall restrict construction truck movements during peak hours (6:00 to 9:00 and 16:00 to 19:00) on weekdays and during the peak periods at the weekends to avoid the following:

(a) Te Atatu Road Interchange, during both morning and afternoon peak hours
(b) Great North Road Interchange, city bound during the morning peak hours
(c) Great North Road Interchange, west bound onto SH16 and southbound onto Great North road during the afternoon peak.

Construction truck movements during these hours shall only be allowed under exceptional circumstances agreed in advance with the Traffic Management Project Governance Group.

39) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

40) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.

(a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
(b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

41) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.
OPERATIONAL TRAFFIC CONDITIONS

Construction

42) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the Great North Road Interchange.

(g) As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.
NOISE AND VIBRATION CONDITIONS - CONSTRUCTION

Pre-Construction

43) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;
(b) the vibration criteria set out in Condition CNV.4 below; or
(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);
(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;
(iii) Machinery and equipment to be used;
(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;
(vi) Roles and responsibilities of personnel on site;
(vii) Construction operator training procedures;
(viii) Methods for monitoring and reporting on construction noise and vibration;
(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;
(x) Management schedules containing site specific information;
(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:

- PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the commencement of works.
- Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.
• The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.

Construction

44) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td>Holidays</td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>
(b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>L_{Aeq(T)}</td>
<td></td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB L_{Aeq(T)} All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB L_{Aeq(T)} Bedrooms</td>
</tr>
</tbody>
</table>

(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB L_{Aeq(T)} or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB L_{Aeq(T)} or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>School hall, lecture theatres</td>
</tr>
</tbody>
</table>

Note: In Condition CNV2(d) “Teaching hours” means:

Primary schools and Kindergartens: 9am to 3pm

Unitec: 8am to 9pm
45) **CNV.4** Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction vibration received by any building shall be measured and assessed in accordance with the German Standard DIN 4150-3:1999 “Structural vibration – Part 3: Effects of vibration on structures”, and shall comply with the criteria set out as follows:

<table>
<thead>
<tr>
<th>Type of structure</th>
<th>Short-term vibration</th>
<th>Long-term vibration</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PPV at the foundation at a frequency of</td>
<td>PPV at horizontal plane of highest floor (mm/s)</td>
</tr>
<tr>
<td></td>
<td>1 - 10Hz (mm/s)</td>
<td>50 - 100Hz (mm/s)</td>
</tr>
<tr>
<td>Commercial/Industrial</td>
<td>20</td>
<td>40 - 50</td>
</tr>
<tr>
<td>Residential/School</td>
<td>5</td>
<td>15 - 20</td>
</tr>
<tr>
<td>Historic or sensitive structures</td>
<td>3</td>
<td>8 - 10</td>
</tr>
</tbody>
</table>

46) **CNV.7** Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

47) **CNV.8** Pile driving or pile removal shall not be undertaken at night (i.e. during the hours of 20:00 – 06:30).

48) **CNV.13** SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).
NOISE CONDITIONS - OPERATION

General

49) ON.1 For the purposes of Conditions ON.2-ON.14 the following terms will have the following meanings:

- BPO – means Best Practicable Option.
- Building Modification Mitigation – has the same meaning as in NZS 6806:2010.
- Design Year – means a point in time that is 10 years after the opening of the Project to the public.
- Emergency Mechanical Services – means mechanical services used for emergency situations only.
- Habitable room – has the same meaning as in NZS 6806:2010.
- Noise Criteria Categories – means groups of preference for time-averaged sound levels established in accordance with NZS 6806:2010 when determining the BPO mitigation option; i.e. Category A - primary noise criterion, Category B - secondary noise criterion and Category C - internal noise criterion.
- PPFs – means only the premises and facilities identified in green, yellow or red in Appendix E.
- Structural mitigation – has the same meaning as in NZS 6806:2010.

Pre-Construction

50) ON.2 The NZTA shall implement the traffic noise mitigation measures identified as the “Preferred Mitigation Options” in Appendix E as part of the Project, in order to achieve the Noise Criteria Categories indicated in Appendix E (“Identified Categories”), where practicable and subject to Conditions ON.3-ON.11 below.

51) ON.3 The detailed design of the structural mitigation measures of the “Preferred Mitigation Options” (the Detailed Mitigation Options) shall be undertaken by a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council prior to construction of the Project, and, subject to Condition ON.4, shall include, as a minimum, the following:

(a) Noise barriers with the location, length and height in general accordance with Appendix E and designed in accordance with the ULDF (Section B) (refer Schedule A, Row 38); and

(b) A requirement that Open Graded Porous Asphalt ("OGPA") or equivalent low-noise generating road surface be used on all surface roads throughout the Project, except at the Great North Road Interchange; and

(c) For the Great North Road Interchange, a requirement that Twin Layer Open Graded Porous Asphalt ("Twin Layer OGPA") or equivalent low-noise generating road surface be used as shown in Appendix E.

52) ON.4 Where the design of the Detailed Mitigation Options identifies that it is not practicable to
implement a particular structural mitigation measure in the location or of the length or height included in the “Preferred Mitigation Options”, either:

(a) If the design of the structural mitigation measures could be changed and would still achieve the same Identified Category at all relevant PPFs, and a suitably qualified expert approved by the Major Infrastructure Team Manager, Auckland Council, certifies to the Auckland Council that the changed structural mitigation measure would be consistent with adopting BPO in accordance with NZS 6806:2010, the Detailed Mitigation Options may include the changed mitigation measures; or

(b) If the changed design of the structural mitigation measure would change the Noise Criteria Category at any relevant PPF from Category A or B to Category C but Major Infrastructure Team Manager, Auckland Council confirms that the changed structural mitigation measure would be consistent with adopting BPO in accordance with NZS 6806:2010, the Detailed Mitigation Options may include the changed structural mitigation measures.

53) ON.6 (a) Sectors 1 to 8 - Prior to construction of the Project, a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council shall identify those PPFs within 100m of the edge of the closest traffic lane of the motorway carriageway where, following implementation of all the structural mitigation measures included in the Detailed Mitigation Options:

i. A noise level increase of 3 decibels or more will occur due to road-traffic noise from the Project; and

ii. Habitable spaces are likely to receive in excess of 45 dB LAeq(24h) from motorway operational noise with windows closed, in the Design Year.

For those PPFs, following the process set out in Conditions ON.7 to ON.11, it shall be determined which Building Modification Mitigation is required to achieve 40 dB LAeq inside habitable spaces.

(b) Sector 9 - Prior to construction of the Project, a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council shall identify those PPFs within 100m of the edge of the closest traffic lane of the motorway carriageway where, following implementation of all the structural mitigation measures included in the Detailed Mitigation Options, habitable spaces are likely to receive in excess of 40 dB LAeq(24h) from motorway operational noise with windows closed, in the Design Year. For those PPFs, following the process set out in ON.7 and ON.8, it shall be determined if Building Modification Mitigation may be required to achieve 40 dB LAeq inside habitable spaces. For those PPFs where Building Modification Mitigation is required to achieve 40 dB LAeq inside habitable spaces, this shall be implemented following the process set out in ON.9 to ON.11.

54) ON.7 (a) Prior to commencement of construction of any sector of the Project in the vicinity of a PPF identified under Condition ON.6, the NZTA shall write to the owner of each such building seeking access for the purpose of measuring internal noise levels and assessing the existing building envelope in relation to noise reduction performance.

(b) If the owner(s) of the building approve the NZTA’s access to the property within 12 months of the date of the NZTA’s letter (sent pursuant to Condition ON.7(a)), then no more than six months prior to commencement of construction in any sector of the Project, the NZTA shall instruct a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council, to visit the building to measure internal noise levels and assess the existing building envelope in relation to noise reduction performance.
Construction

55) ON.5 The Detailed Mitigation Options shall be implemented prior to completion of construction of the Project.

56) ON.8 Where a PPF identified under Condition ON.6 is identified, the NZTA shall be deemed to have complied with Condition ON.7 above where:
   (a) The NZTA (through its acoustics specialist) has visited the building; or
   (b) The owner(s) of the building approved the NZTA’s access, but the NZTA could not gain entry for some reason after repeated attempts; or
   (c) The owner(s) of the building did not approve the NZTA’s access to the property within the time period set out in Condition ON.7(b) (including where the owner(s) did not respond to the NZTA’s letter (sent pursuant to Condition ON.7(a) within that period); or
   (d) The owner(s) of the building cannot, after reasonable enquiry, be found prior to completion of construction of the Project.

If any of (b) to (d) above apply to a particular Building, the NZTA shall not be required to implement any Building Modification Mitigation at that Building

57) ON.9 Subject to Condition ON.8, within 6 months of the assessment required under Condition ON.7(b), the NZTA shall give written notice to the owner of each PPF identified under Condition ON.6:
   (a) Advising of the options available for Building Modification Mitigation to the building; and
   (b) Advising that the owner has three months within which to decide whether to accept Building Modification Mitigation for the building, and if the NZTA has advised the owner that more than one options for building modification mitigation is available, to advise which of those options the owner prefers.

58) ON.10 Once an agreement on Building Modification Mitigation is reached between the NZTA and the owner of an affected building, the mitigation shall be implemented (including the NZTA undertaking any required third party authorisation) in a reasonable and practical timeframe agreed between the NZTA and the owner. Building Modification Mitigation shall be to the standard specified in section 8.3.2 of NZS 6806:2010.

Advice Note: The NZTA will be responsible for obtaining any necessary building consents or other approvals to undertake the above Building Modification Mitigation.

59) ON.11 Subject to Condition ON.8, where Building Modification Mitigation is required, the NZTA shall be deemed to have complied with Condition ON.10 above where:
   (a) The NZTA has completed Building Modification Mitigation to the Building; or
   (b) The owner(s) of the Building did not accept the NZTA’s offer to implement Building Modification Mitigation prior to the expiry of the timeframe stated in Condition ON.9(b) above (including where the owner(s) did not respond to the Requiring Authority within that period); or
   (c) The owner of the Building cannot, after reasonable enquiry, be found prior to completion of construction of the Project.
**Post-Construction / Operations**

60) **ON.12** The NZTA shall manage and maintain the Detailed Mitigation Options to ensure that, those mitigation works are maintained to retain their noise attenuation performance indefinitely.

**Monitoring**

61) **ON.14**

(a) Prior to construction, the NZTA shall arrange for a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council to undertake a minimum of 8 (eight) representative measurements of ambient noise levels. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.

(b) Following completion of the work, the NZTA shall arrange for a suitably qualified and experienced acoustics specialist approved by the Major Infrastructure Team Manager, Auckland Council to undertake traffic noise monitoring at the same sites surveyed in Condition ON.14 (a) above, within 2 to 3 years following completion of construction of the Project. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.

(c) The results of the noise level monitoring in accordance with ON.14(b) above shall be used to verify the computer noise model of the Detailed Mitigation Option. A report describing the findings of the verification shall be provided to the Major Infrastructure Team Manager, Auckland Council within one month of it being completed.

**VIBRATION CONDITIONS - OPERATION**

**Pre-Construction**

62) **OV.1** Existing ambient vibration levels shall be measured at critical locations nominated by the NZTA, and submitted to the Major Infrastructure Team Manager, Auckland Council for approval prior to the commencement of works. These baseline measurements will establish pre-Project vibration levels for comparison with future vibration levels.

**AIR QUALITY CONDITIONS - CONSTRUCTION**

**Pre-Construction**

63) **AQ.1** The NZTA shall finalise and implement, through the CEMP, the Construction Air Quality Management Plan (CAQMP) and Concrete Batching and Crushing Management Plan (CBCMP) submitted with the application.

The CAQMP and CBCMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CAQMP and CBCMP includes the following details:

(a) Daily visual monitoring of dust emissions;

(b) Procedures for responding to process malfunctions and accidental dust discharges;

(c) Criteria, including consideration of weather conditions and procedures for use of water sprays on stockpiles and operational areas of the site;

(d) Continuous monitoring of Total Suspended Particulate (TSP) concentrations and meteorology;
(e) Monitoring of the times of detectable odour emissions from the ground;

(f) Procedures for responding to discharges of odour (including in the event of excavation of contaminated sites);

(g) Monitoring of construction vehicle maintenance;

(h) Process equipment inspection, maintenance, monitoring and recording, including baghouses, pressure relief valves and high level alarms;

(i) Complaints investigation, monitoring and reporting; and

(j) The identification of staff and contractors’ responsibilities.

**Construction**

64) AQ.2 The NZTA shall review the CAQMP and CBCMP at least annually and as a result of any material change to the Project. Any consequential changes will be undertaken in accordance with Condition CEMP.13.

65) AQ.3 All construction activities shall be operated, maintained, supervised, monitored and controlled at all times so that all emissions authorised by this consent are maintained at the minimum practicable level.

66) AQ.4 The NZTA shall undertake construction activities in accordance with the CEMP, CAQMP and CBCMP, such that:

(a) Hard surfaced areas of the construction yards and active construction areas are vacuum swept or scraped down at least twice each week and additionally as reasonably required;

(b) All unsealed areas of the site used for vehicle movement are maintained visibly damp by the use of water sprays or a water cart during weather conditions where the potential for dust emissions exist;

(c) Wheel wash systems are installed at all truck exits from unpaved areas of the site onto public roads are used for all trucks that depart from the site;

(d) All stockpiles are constructed and positioned to minimise the potential for dust emissions. The surfaces of all stockpiles are maintained adequately damp at all times to minimise the release of particulate matter;

(e) Belt conveyors for moving dry materials are fitted with water sprays or enclosed to minimise wind entrainment of dust. Where installed, water suppression is used whenever the conveyors are used for moving dry materials.

67) AQ.5 Unless expressly provided for by conditions of this consent, there shall be no odour, dust or fumes beyond the site boundary caused by discharges from the site which, in the opinion of an enforcement officer, is noxious, offensive or objectionable.

68) AQ.6 All offensive or objectionable dust beyond the boundary of the site caused as a result of processes on the site shall be mitigated forthwith in accordance with the requirements of the Construction Air Quality Management Plan.

69) AQ.7 Beyond the site boundary there shall be no hazardous air pollutant caused by discharges from the site that causes, or is likely to cause, adverse effects on human health, environment or property.

70) AQ.8 No discharges from any activity on site shall give rise to visible emissions, other than water vapour, to an extent which, in the opinion of an enforcement officer, is noxious, dangerous, offensive or objectionable.
**Monitoring - Construction**

71) **AQ.14** The NZTA shall undertake visual inspections of dust emissions as follows:

- Visual inspections of all active construction areas at least three times daily during October to April inclusive, whenever there are construction activities. The results of visual monitoring shall be logged.

- Visual inspections of dust emissions from the concrete batching plants and rock crushing plant shall be undertaken daily while the plant is operating.

72) **AQ.15** The operation of water sprays shall be checked at least once each day.

73) **AQ.16** Continuous monitoring of TSP concentrations shall be undertaken in at least one location in Sector 1, in at least two locations in Sectors 5 and/or 7, and in at least two locations in Sector 9 while construction activities are being undertaken in those Sectors. The locations of continuous TSP monitors shall, as far as practicable, comply with the requirements of AS/NZ 3580.1.1:2007 Method for Sampling and Analysis of Ambient Air – Guide to Siting Air Monitoring Equipment.

74) **AQ.17** Continuous monitoring of wind speed and direction shall be undertaken in at least one location in each of Sector 1, Sectors 5 or 7 and Sector 9 while construction activities are being undertaken in those Sectors. The locations of wind speed and direction monitors shall, as far as practicable, comply with the requirements of AS 2923:1987 Ambient Air – Guide for the Measurement of Horizontal Wind for Air Quality Applications and be at the same locations as the TSP monitors required by Condition AQ.16.

**Reporting - Construction**

75) **AQ.19** All records, logs, monitoring and test results that are required by the conditions of this consent shall be made available on request, during operating hours, to an Auckland Council enforcement officer and shall be kept for the duration of the consent.

76) **AQ.20** If the monitoring required by Condition AQ.16 shows that concentrations of TSP in ambient air at or beyond the boundary of the site exceeds 80 micrograms/m³ as a 24-hour average, the NZTA shall undertake an investigation into the cause of the exceedance in accordance with the CAQMP.

77) **AQ.21** A report into the outcome of any investigation required by Condition AQ.20 shall be forwarded to the Major Infrastructure Team Manager, Auckland Council within 10 working days of the exceedance. If the cause of the exceedance is identified as being an activity undertaken on the site, the report shall also identify additional measures to be taken to reduce discharges of particulate matter into air from that activity.

78) **AQ.22** Log books shall be maintained that record all relevant information that is required to demonstrate compliance with the conditions of this consent. This information shall include, but is not limited to:

- Visual assessments of any dust emissions from the site and the source;
- Any dust control equipment malfunction and any remedial action taken;
- When a water cart was used and, if so, the frequency of use and the volume of water used (including identification of location);
- All relevant details of the TSP and meteorological monitoring required by Conditions AQ.16 and AQ.17;
- Any additional dust control measures undertaken; and
- The date and time of the entry and the signature of the person entering the
The NZTA shall maintain a log of any complaints received relating to air quality. Details of each complaint received shall be forwarded to the Major Infrastructure Team Manager, Auckland Council within 24 hours of receipt of the complaint. The log shall include any complaints lodged with the Auckland Council where the Council has informed the NZTA of the complaint. The log shall include, but not be limited to the following:

(a) The date, time, location and nature of the complaint;
(b) Weather conditions at the time of the complaint (including approximate wind speed, wind direction, cloud cover);
(c) Any possible other contributing factors (such as a fire, smoky vehicle, a local chimney emission, etc.);
(d) The name, phone number and address of the complainant (unless the complainant elects not to supply these details);
(e) Any remedial actions undertaken; and
(f) The date and time of the entry and the signature of the person entering the information.

LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

80) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/ designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

81) LV.2 In certifying the UDL Plans, prepared in accordance with Condition LV.1, the Major Infrastructure Team Manager, Auckland Council shall be satisfied the UDL plans includes:

(a) The visual mitigation of infrastructure as detailed in Section B of the UDLF (refer Schedule A, Row 38).
(b) Incorporation of art or art through design of structures, particularly as it relates to noise barriers and the Great North Road Interchange piers and ramps (Refer to clauses (g) and (i) below).
(c) Planting to screen houses and noise walls (including cross section details);
(d) Planting along the corridor on Traherne Island, in accordance with these conditions and the Ecological Management Plan;
(e) Specimen planting on the Great North Road Interchange and the Te Atatu Road Interchange;
(f) Specimen planting at the tunnel portals (except where this is within the OPW area);
(g) Finalisation of the noise barriers (as required by Condition ON.3(a)) in accordance with
(h) Delineation of the final areas of the Open Space Restoration Plans in accordance with the Open Space Restoration Plans (Schedule A, Row 30), and reference that all works within the Open Space Restoration Plan Areas are subject to Conditions OS.1 to OS.8;

(i) Oakley Inlet Heritage Plan, prepared in accordance with Conditions OS.5, and in particular, consideration shall be given to the design treatment of the Great North Road Interchange piers and ramps to take into consideration the impact of the structures on the visual quality of the open space beneath;

(j) Ecological Management Plan, prepared in accordance with Conditions V.1, A.1, H.1, F.1 and M.1;

(k) Western Ring Route: Maioro Street Interchange and Waterview Connection - Oakley Creek Rehabilitation and Restoration Guidelines (Boffa Miskell, 2010); and

(l) Details of artworks or art through design of structures within the Project (e.g. design detailing of median barriers, bridge railings, safety barriers, piers, retaining walls and tunnel portals), in accordance with Section B of the Urban Landscape and Design Framework (UDLF June 2010) (refer Schedule A, Row 38) and F.8: Plans of Structures and Architectural Features, but excluding the north and south ventilation buildings, plans sections and elevations.

82) LV.8 The NZTA shall ensure that any areas within the designation affected by construction activities have sub-soil rehabilitated and top-soil replaced so that the hydrological response including the volume of stormwater runoff generated is as close as practicable to the predevelopment situation. The methodologies to achieve this shall be documented and provided to the Major Infrastructure Team Manager, Auckland Council with the revised ULD Plans submitted pursuant to Condition LV.1.

83) LV.10 The UDL Plans shall identify all Amenity Trees required to be removed over the construction of the Project (in accordance with Condition CEMP.6(o) and (p)). Replacement trees shall be sized at 160Lt and will either draw from the Coastal Forest or Basalt Rock Forest ecotypes listed in the Landscape Planting Schedules (provided in F.16, refer Schedule A, 17) or an agreed alternative species (confirmed by Major Infrastructure Team Manager, Auckland Council), except in the case of those trees subject to Condition ARCH.9.

Advice note: This does not necessary apply to any replacement planting in the Open Space Restoration Plan areas, which will be confirmed in approval from Auckland Council and will be in accordance with relevant Auckland Council Park guidelines (see Condition OS.4).

Construction

84) LV.7 The NZTA shall ensure that the Temporary Embankments constructed for the Causeway are located on the seaward side of SH16 between the motorway end of Rosebank Road and the bridge over the Waterview Inlet.

Post-Construction / Operations

85) LV.3 The NZTA shall have implemented the UDL Plans within 6 months of practical completion of construction of the Project.

86) LV.4 The landscaping shall be implemented in accordance with the UDL Plans within the first planting season following the completion of the construction works, provided that climatic conditions are suitable, otherwise at the first practicable opportunity thereafter, and shall be maintained for a period of 10 years thereafter. Should the landscaping be implemented in stages (depending on construction phases), landscaping shall be implemented in
accordance with this Condition for each stage unless subsequent construction staging requires use of the proposed landscaping area.

Advice note: On-going control and management of the landscaping within the designation is the responsibility of the NZTA.

87) LV.5 The NZTA shall implement the UDL Plans taking into account the pest plant management guidelines detailed in the Ecological Management Plan (as required by Condition CEMP.3).

88) LV.9 The UDL Plans shall make provision for the rehabilitation of Construction Yard 2 at the completion of SH16 construction works through the close planting of native coastal species within that part of the yard area seaward of the proposed stormwater filter strip. All planting shall be consistent with the native coastal planting referenced in the ECOMP and Condition V.10.

OPEN SPACE CONDITIONS

General

89) OS.1 For the purposes of Conditions OS.2 – OS.15 the following terms will have the following meanings:

- Full size – means a football (soccer) field with the dimensions 100m x 60m.
- Half size – means a football (soccer) field with the dimensions less than 100m x 60m but no smaller than 50m x 30m.
- Toddler – means a playground specifically designed for children between the ages of 1 and 3
- Junior – means a playground specifically designed for children between the ages of 4 and 8
- Youth – means a playground specifically designed for children between the ages of 9 – 14 years
- Open for Play - means the sports field has a level surface and a dense weed-free sward of mature grass, goal posts and lighting if indicated in the Open Space Restoration Plans approved by the Auckland Council.
- Sand - carpeted - means the field has been levelled and irrigated, and conventional sub-soil drains, slit drains and a 50mm deep sand carpet have been installed. The field has been stolonised with a warm season grass such as kikuyu or couch.
- Park furniture – means those items described in the Auckland Council Park Guidelines
- AS2560 – means the Australia New Zealand Standard for lighting of sports fields.
- AS4282 – means the Australia New Zealand Standard for the control of the obtrusive effects of outdoor lighting.
- Way finding exercise – means a process for determining the number, size, location and content of signage to provide clear direction for all park users.
- Skate-park for the purpose of conditions os.5(b)(iii) means a skate park with a size of approximately 1,400 sq. m. (generally 25 wide x 55m long), incorporating a range of design variations. Suitable for beginners (providing training facilities to develop
BMX bike track for the purpose of condition OS.5(b)(iii) means a low maintenance, non-competition BMX bike track, incorporating a range of design variations. Primarily catering for beginner and intermediate riders.

**Construction**

90) **OS.2** The NZTA shall prepare Open Space Restoration Plans to outline how the open space replacement land, as defined in the Open Space Restoration Plan Areas (Schedule A, Row 30) (including land occupied during construction) will be reinstated or replaced on completion of construction, for handover to Auckland Council and those areas identified in Condition DC.1A(f) and RC.3(f).

Following the consultation detailed in Condition OS.3 below, the Open Space Restoration Plans listed in Condition OS.3(a) to (f) shall be submitted within 12 months of construction commencing in the specific areas affecting the reserves or within 12 months of occupation of open space, whichever is the sooner, to the Major Infrastructure Team Manager, Auckland Council.

Advice note: Conditions OS.9 and OS.10 require certain works to be provided prior to occupation of Construction Yards 6 and 7 (Waterview Reserve) and Construction Yards 9-12 (Alan Wood Reserve) and this may impact on the timing of Open Space Restoration Plans for these areas.

91) **OS.3** The Open Space Restoration Plans shall be prepared in consultation with the Auckland Council, Iwi, the Community Liaison Groups (Condition PI.5), NZHPT, and other recreation users and other user representatives identified by Auckland Council. The Open Space Restoration Plans shall comprise the following specific plans:

(a) Waterview Reserve Restoration Plan;
(b) Alan Wood Restoration Plan (including Hendon Park and 25 Valonia Street);
(c) Oakley Creek Esplanade (Waterview Glades) Restoration Plan;
(d) Jack Colvin Park Restoration Plan;
(e) Rosebank Domain Restoration Plan;
(f) Harbourview-Orangihina Reserve Restoration Plan.

(g) The areas of the Open Space Restoration Plans are shown in the Open Space Restoration Plan Areas (Refer Schedule A, Row 30).

92) **OS.4** All Open Space Restoration Plans shall be prepared in general accordance with the UDL Plans (Schedule A, Row 30), and shall include, but not be limited to, the following:

(a) Details of, including the location, of any artworks and educational signage, and directional signage. In the case of Alan Wood Reserve, Waterview Reserve and Oakley Creek Esplanade (Waterview Glade) this shall include a “way-finding exercise” in accordance with Auckland Council practice, to determine all signage to be provided; and

(b) Evidence of integration with the Oakley Creek restoration works required under Conditions STW.5, STW.20, V.16 and LV.2(i); and a summary of the consultation undertaken (as required by Condition OS.3) and the response received; and

(c) Details of any vehicle access through the reserves and parking areas; and

(d) Park furniture (including quantity and quality) to be provided in accordance with relevant Auckland Council Park guidelines, except for:

(i) The riparian area within Alan Wood Reserve where the only furniture required is a
(ii) Oakley Creek Esplanade (Waterview Glades) where the only furniture required is replacement of 3 existing seats; and

(e) The inclusion and integration of the design for all pedestrian and cycleway linkages and facilities detailed on the PT and Active Mode Transport Routes (Schedule A, Row 22). The design integration shall be in accordance with CPTED principles;

(f) Implementation programme, including sequencing of works and completion dates. This shall include works that could be implemented prior to practical completion of construction works or are outside the Project area (e.g. upgrading of the Waterview Esplanade Reserve set out in Condition OS.5(b)(vii);

(g) Implementation programmes for planting and field reinstatement. This shall include:
   (i) A 12 month maintenance period for built structures and soft landscaping;
   and
   (ii) For any landscaping accessible to horses an assessment to demonstrate that the planting schedule is not toxic to horses and that consultation on this has been undertaken with the Te Atatu Pony Club;

(h) The specific requirements for each Restoration Plan area as set out in Conditions OS.5 – OS.8;

(i) Documentation of consultation undertaken required by Condition OS.3 and the views and concerns expressed by this consultation and the written approval of the Manager Community and Cultural Policy.

Advice note: For the avoidance of doubt provision of (a) to (h) above will require elevations, cross sections, engineering drawings and written documentation to supplement the UDL Plans. It is also noted that the UDL Plans identify landscaping, planting and other works beyond the Open Space Restoration Plans (refer Conditions LV.1 – LV.6, LV.9 and LV.10). Educational signs and artworks are particularly encouraged.

93) OS.13 During construction, the NZTA shall maintain pedestrian accessways to all open space available for public use during construction and education facilities where access is affected by the works, including any public access that crosses private land. Such access shall be safe, clearly identifiable, provide appropriate surfacing and seek to minimise significant detours. The access shall be of a same or similar standard as that disrupted and will be provided and maintained by the NZTA.

Advice note: This specifically includes the existing pedestrian access that provides a connection to the crossing over Oakley Creek between 1510 Great North Road and Unitec Mt Albert Campus.

SOCIAL CONDITIONS

Pre-Construction

94) SO.1 In addition to the Community Liaison Groups established pursuant to Condition PI.5, the NZTA shall establish an Education Liaison Group (including representatives from local schools, kindergartens, childcare facilities, Unitec Institute of Technology, the Ministry of Education and Housing New Zealand Corporation), to provide a forum through which:

(c) Relevant monitoring data can be provided (e.g. air quality monitoring);

(d) Notice can be provided of when particularly noisy activities will occur in close proximity to schools and education facilities, to enable the opportunity to identify any potential conflict with particular sensitive periods, and the requirement for specific mitigation
strategies (e.g. rescheduling of construction activities where practicable);

(e) Particular concerns can be raised by educational facilities or parents, discussed and potentially addressed;

(f) Notice can be provided of potential construction impacts on school transport routes (including pedestrian/cycle access) to enable the opportunity to identify specific mitigation preferences of the education facilities (e.g. any detour routes) and to enable these facilities to appropriately inform students and/or parents; and

(g) Learning and teaching opportunities for educational facilities to participate in Project works (e.g. planting or artworks).

The Education Liaison Group shall be established at least 2 months prior to construction commencing and shall have regular meetings (at least three monthly) throughout the construction period. The Education Liaison Group shall continue to meet for at least 12 months following the completion of the Project (or less if the members of the Education Liaison Group agree), so that ongoing monitoring information can continue to be disseminated.

95) SO.6 In addition to the Community Liaison Group established pursuant to Condition PI.5, the NZTA shall establish a Working Liaison Group (WLG) inviting the following:

(a) Auckland Council;
(b) Housing New Zealand Corporation;
(c) Te Kawerau Iwi Tribal Authority;
(d) Ngati Whatua o Orakei;
(e) KiwiRail;
(f) Department of Conservation;
(g) Ministry of Education; and
(h) Local Boards.

The purpose of this WLG will be to provide a forum through which:

(a) Opportunities for public work development (including social housing, passenger transport or recreation / open space) are identified in areas where the NZTA confirms that the designation is no longer required (e.g. following construction activities);

(b) Comment can be provided on updated Urban Design and Landscape Plans, including the finalised designs of structural elements for the Project (prior to their submission to the Auckland Council);

(c) Opportunities for integration of other environmental projects (e.g. restoration plantings) are identified;

(d) Consideration is given to appropriate protocols for commencement and completion of construction activities (including blessings for commencement of construction phases); and

(e) Comment can be provided by Te Kawerau a Maki on the detailed lighting design of SH16, to consider how lighting effects on cultural sites and practices might be mitigated without compromising traffic safety or those performance standards identified in Condition L.1.

The Working Liaison Group shall be established at least 2 months prior to construction commencing and shall have regular meetings (at least three monthly) throughout the construction period.

96) SO.7 A schedule of trees that require removal for construction of the Project will be identified and reported to the Community Liaison Group for their consideration of potential provision of
timber for heritage projects (including in particular the provision of Robinia wood for heritage boat building). If the demand for this timber is identified to the Construction Team, appropriate measures for felling and removal from the site will be confirmed.

**Construction**

97) SO.2 In addition to Condition SO.1(b) above, where noisy construction activities (that are projected to exceed the Noise Criteria in the CNVMP) are proposed in close proximity or adjacent to schools/childcare centres, the NZTA shall, when preparing their SSNMP (in accordance with Condition CNV.1) give specific consideration to options to carry out these works outside school hours or during school holidays as a mitigation option.

**VEGETATION CONDITIONS**

**General**

98) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

**Pre-Construction**

99) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and

(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

100) V.2 The NZTA shall employ a suitably experienced botanist (‘nominated botanist’) for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

101) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

102) V.11 Prior to commencement of works adjacent to Traherne Island, the NZTA shall employ a suitably qualified and experienced plant translocation expert to uplift and protect all areas of Mimulus repens on Traherne Island that will be affected by the work. The Mimulus repens shall be relocated to suitable and safe habitat away from the works area, or otherwise held and protected for the duration of the works in the vicinity of their original location and be replanted back at that location (or in close proximity to it) upon completion of the works. The location of the recipient sites will be determined in consultation with the Department of Conservation and in general accordance with the Traherne Island Natural Heritage Restoration Plan (2009 – 2014). Trials shall be undertaken to identify appropriate recipient sites, with these trial sites being monitored for a period of no less than 5 years, or until their failure. Where possible, recipient sites shall be located in currently weed-free
areas. Where recipient sites may potentially be affected by weeds, they shall be subject to an on-going weed management plan. Should translocation attempts fail at all trial sites then the NZTA, in consultation with DOC, shall determine an alternative appropriate form of mitigation.

103) V.17 Prior to commencement of works adjacent to or on Traherne Island, the NZTA shall employ a suitably qualified and experienced ecologist for the preparation of a Traherne Island Weed and Pest Management Plan. The Plan shall be prepared in consultation with the Department of Conservation and be submitted to the Auckland Council for approval at least 20 working days prior to construction commencing.

104) V.18 The NZTA shall implement the approved Traherne Island Weed and Pest Management Plan. Every 5 years, a suitably qualified and experienced ecologist engaged by NZTA shall review the plan in consultation with the Department of Conservation. The plan shall then be submitted to the Auckland Council for approval.

Construction

105) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

106) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

107) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

108) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

Post-Construction / Operations

109) V.15 Planting along and within the rock revetment of the widened SH16 causeway shall be undertaken by the NZTA at locations in general accordance with the Urban Design and Landscape Plans and planting schedules (Refer Schedule A, Row 17), as identified in those plans under the label “Rock Armour with Saltwater Revetment Planting”. The planting treatments will be in accordance with the concepts of the ECOMP, Appendix I ‘Conceptual Rock Revetment Planting Designs’.

Monitoring

110) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

111) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:
(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;
(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;
(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and
(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

AVIAN CONDITIONS

General

112) A.6 Animal pest control shall be undertaken by the NZTA on Traherne Island (northern and southern sides) and on the Coastal Marine Area (CMA) frontage of SH16 from Traherne Island North to Whau Creek, and on the southern side of SH16 from Traherne Island South to Whau River (in accordance with Condition V.17).

Pre-Construction

113) A.1 The NZTA shall finalise, and implement through the CEMP, ECOMP submitted with this application to include the matters set out in Conditions A.2 to A.6.

Construction

114) A.2 The NZTA shall provide temporary high tide roosting structure(s) adjacent to the Causeway during construction, in accordance with the ECOMP, to the satisfaction of the Major Infrastructure Team Manager, Auckland Council. The temporary bird roosts shall be sized in accordance with the ECOMP, and located within the Waterview Estuary adjacent to the southern side of the causeway and in the vicinity of the existing Causeway bridge.

115) A.5 Vegetation clearance at Traherne Island shall occur outside the bird breeding season of September to December. Elsewhere, vegetation clearance shall occur outside the bird breeding season of September to December where practicable.

Monitoring

116) A.3 The NZTA shall employ a suitably qualified ecologist to undertake monitoring of the roosting areas located at:
(a) The existing high tide roost in Harbourview-Orangihina Park; and
(b) The temporary construction roosting structure(s) pursuant to Condition A.2.
Monitoring shall be undertaken on a monthly basis, with a monitoring report prepared on a quarterly basis. The monitoring report shall be made available to the Major Infrastructure Team Manager, Auckland Council and Department of Conservation upon request.

117) A.4 Should the monitoring results indicate that the roosting sites have been abandoned, consultation shall be undertaken with the Department of Conservation and the Major Infrastructure Team Manager, Auckland Council to determine the need for and type of further management strategies (if any) required.
HERPETOFAUNA CONDITIONS

Pre-Construction

118) H.1 The NZTA shall finalise and implement through the CEMP, the ECOMP submitted with this application to include details of lizard management to be undertaken, including the following:

(a) Lizard capture methodology, including timing;
(b) Lizard release locations(s);
(c) Lizard habitat enhancement at population release sites, including a detailed pest control programme for a minimum of one month prior to release and for a minimum of three consecutive years’ duration after release;
(d) Location(s), monitoring and maintenance of lizard protective fencing;
(e) Post-release monitoring methodology; and
(f) Lizard captive management methodology.

LIGHTING CONDITIONS

Pre-Construction

119) L.2 A Temporary Construction Lighting Management Plan shall be prepared for all construction zones and construction yards prior to commencement of any night time works within the construction zones and construction yards. The Temporary Construction Lighting Management Plan shall be independently verified by a lighting specialist and provided to the Major Infrastructure Team Manager, Auckland Council for certification of compliance 10 working days prior to any night time work commencing.

The certification process shall ensure that the Plan includes (but is not be limited to):

a) The layout and arrangement of all temporary lighting required for night time works, and shall show how this avoids the “Light Spill Restriction Zone” identified on the Construction Yard Plans (Refer Schedule A, Row 7) submitted with the application, and that the temporary lighting complies with relevant rules provided in Rule 14 of the Waitakere City District Plan or Part 13 of the Auckland City Bylaw (April 2008);

b) Provision for a 10m buffer between the night time work and any residential boundary at all times to minimise potential for light spill; and

c) General operating procedures outlined in the CEMP.

120) L.3 Asymmetrical floodlights with horizontal glass visors that are not raised more than 3 degrees above the horizontal plane shall be used for any temporary construction night time lighting requirements. Alternative temporary lighting arrangements may be used, subject to the prior approval of the Major Infrastructure Team Manager, Auckland Council, where it can be demonstrated that the proposed lighting is similar or better to asymmetrical floodlights with glass visors. Glare shall be kept below the recommendation given in AS 4282 – 1997 “Control of the Obtrusive Effects of Outdoor Lighting” Tables 2.1 and 2.2.

Post-Construction / Operations

121) L.1 Lighting shall be designed and screened to minimise the amount of lighting overspill and illumination of residential areas, in general accordance with the Waterview Connection Lighting Plan (Drawing Set F.11 (Refer Schedule A, Row 12):
a) All motorway lighting shall be designed in accordance with "Roadlighting Standard AS/NZS1158";
b) All other lighting shall be designed in accordance with relevant rules provided in Rule 14 of the Waitakere City District Plan or Part 13 of the Auckland City Bylaw (April 2008);
c) Fully cut off luminaries shall be used on SH20 from the Southern Tunnel Portal to the Maioro Street Interchange to minimise lighting overspill, as shown on Drawing Set F.11 (Refer Schedule A, Row 12).

**ARCHAEOLOGY CONDITIONS**

*Pre-Construction*

122) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:
   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

123) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:
   (a) All unmodified areas in the vicinity of Rosebank Road;
   (b) All works in the vicinity of the "Oakley Inlet Heritage Area", located adjacent to the Great North Road Interchange;
   (c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   (d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

124) ARCH.4 In accordance with the ASMP, the following archaeological sites shall be fenced off and protected to the satisfaction of the Project archaeologist, prior to construction activities being undertaken:
   (a) Recorded sites R11/2504, R11/2505, R11/2506 and R11/2507, located on the northern boundary of the designation adjacent to the Rosebank Road peninsula.
   (b) Recorded site R11/2383 in the Oakley Creek Esplanade Reserve construction yard.

125) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

126) ARCH. Advice
   Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Note
Construction

127) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:

(a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

CONTAMINATED LAND AND CONTAMINATED DISCHARGES CONDITIONS

Pre-Construction

128) CL.1 The NZTA shall finalise and implement through the CEMP, the Contaminated Soil Management Plan (CSMP) submitted with this application prior to commencement of any site works. The CSMP shall include, but not be limited to:

(a) Measures to be undertaken in the handling, storage and disposal of all material excavated during the construction works;

(b) Soil validation testing and groundwater testing;

(c) Soil verification testing to be undertaken to determine the nature of the excavated spoil and potential reuse or disposal options;

(d) Measures to be undertaken in the event of unexpected contamination being identified during construction activities; and

(e) Measures to be undertaken for the handling of asbestos containing material.

Construction

129) CL.4 All excavated soil shall be tested by the NZTA in general accordance with the CSMP, prior to either reuse on site or disposal off site. The testing regime shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council.

130) CL.5 The NZTA shall notify the Major Infrastructure Team Manager, Auckland Council within 5 working days of identification of any contamination at the site which was not identified in the reports submitted in support of this application, including contaminated soil, surface water or groundwater.

131) CL.6 The removal of any excavated contaminated soil shall be in accordance with the CSMP. The removal and disposal of any contaminated groundwater/surface water from the site shall be in accordance with the GWMP and the ESCP.

132) CL.7 The NZTA shall engage a suitably qualified contaminated land specialist to supervise the works, excavation and removal of any contaminated soils from the site and undertake sampling (if required) of imported material.
133) CL.8 All testing / sampling techniques shall be carried out in accordance with the Ministry for the Environment Contaminated Land Management Guidelines or other equivalent standards approved in writing by the Major Infrastructure Team Manager, Auckland Council.

**Post-Construction / Operations**

134) CL.11 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council, a Site Closure Report no later than three (3) months after the completion of the earthworks. The Report shall be prepared in accordance with Schedule 13 (Schedules for Reporting on Contaminated Land) of the Proposed Auckland Regional Plan: Air Land and Water and include:

(a) Results of any soil reuse and imported material testing carried out to ensure compliance with the CSMP;

(b) Volumes of soil removed from site;

(c) Copies of the waste disposal receipts; and

(d) Reports of any non-compliance with the CSMP procedures or complaints received while undertaking the site works.
EPA 10/2.010 – (ARC: 38313)

Consent Type: Land Use Consent

Consent Description: Land Use Consents – Land Disturbance (Sectors 1 – 9 inclusive):

Earthworks and roading / tracking / trenching during construction – within and outside the Sediment Control Protection Area (includes the associated discharge of sediment laden water as a discharge consent).

Disclaimer: The Conditions contained in this consent are sourced from the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Lapse Period: 10 years

Code: RC = Standard Resource Consent Conditions

CEMP = Construction Environmental Management Plan Conditions

PI = Public Information Conditions

TT = Temporary Traffic Conditions

SO = Social Conditions

V = Vegetation Conditions

ARCH = Archaeology Conditions

E = Earthworks Conditions

GENERAL CONDITIONS

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or

(b) To deal with any other adverse effect on the environment on which the exercise of the
4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

PRE-CONSTRUCTION CONDITIONS

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.
In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:
   (i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and
   (ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

9) **CEMP.1**

Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

**Advice note:** For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

**Advice Note:** Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.
10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) CEMP.2 The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:
   (a) Staff and contractors’ responsibilities;
   (b) Training requirements for employees, sub-contractors and visitors;
   (c) Environmental incident and emergency management;
   (d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
   (e) Environmental complaints management (including the procedures required under Condition PI.4);
   (f) Compliance monitoring;
   (g) Reporting (including detail on the frequency of reporting to the Auckland Council);
   (h) Environmental auditing; and
   (i) Corrective action.

12) CEMP.3 The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:
   (a) Construction Noise and Vibration Management Plan (CNVMP);
   (b) Construction Air Quality Management Plan (CAQMP);
   (c) Erosion and Sediment Control Plan (ESCP);
   (d) Temporary Stormwater Management Plan (TSMP);
   (e) Ecological Management Plan (ECOMP);
   (f) Groundwater Management Plan (GWMP);
   (g) Settlement Effects Management Plan (SEMP);
   (h) Contaminated Soils Management Plan (CSMP);
   (i) Hazardous Substances Management Plan (HSMP);
   (j) Archaeological Site Management Plan (ASMP);
   (k) Construction Traffic Management Plan (CTMP);
   (l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
   (m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
   (n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10) ; and
   (o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) CEMP.6 The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:
(a) details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented
throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:
(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.
(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

18) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

19) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will include details of:
(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;
(c) The database of stakeholders and residents who will be communicated with;
(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);
(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);
(f) Any stakeholder specific communication plans required; and
(g) Monitoring and review procedures for the Communications Plan.
The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

20) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:
(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka
and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:
(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

21) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:
(a) Provide simulation modelling demonstrations to better understand the effects of construction of the Project on the affected road network;
(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;
(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

22) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as
defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

23) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/ overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

24) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.

25) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to, as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.

26) SO.1 In addition to the Community Liaison Groups established pursuant to Condition PI.5, the NZTA shall establish an Education Liaison Group (including representatives from local schools, kindergartens, childcare facilities, Unitec Institute of Technology, the Ministry of
Education and Housing New Zealand Corporation), to provide a forum through which:

(a) Relevant monitoring data can be provided (e.g. air quality monitoring);

(b) Notice can be provided of when particularly noisy activities will occur in close proximity to schools and education facilities, to enable the opportunity to identify any potential conflict with particular sensitive periods, and the requirement for specific mitigation strategies (e.g. rescheduling of construction activities where practicable);

(c) Particular concerns can be raised by educational facilities or parents, discussed and potentially addressed;

(d) Notice can be provided of potential construction impacts on school transport routes (including pedestrian/cycle access) to enable the opportunity to identify specific mitigation preferences of the education facilities (e.g. any detour routes) and to enable these facilities to appropriately inform students and/or parents; and

(e) Learning and teaching opportunities for educational facilities to participate in Project works (e.g. planting or artworks).

The Education Liaison Group shall be established at least 2 months prior to construction commencing and shall have regular meetings (at least three monthly) throughout the construction period. The Education Liaison Group shall continue to meet for at least 12 months following the completion of the Project (or less if the members of the Education Liaison Group agree), so that ongoing monitoring information can continue to be disseminated.

27) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and

(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

28) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

29) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

30) V.12 Should the taxonomic and rarity status of the Geranium species growing alongside Oakley Creek in Hendon Park and Alan Wood Reserve not be confirmed before the commencement of works in this area, then this species shall be treated as Significant Vegetation and shall either be:

(a) Protected in full or in part, and/or

(b) Where protection is not practicable, relocated to a suitable and safe habitat elsewhere; or

(c) Where protection or translocation are not practicable, this population shall be cleared in locations where required to allow works to proceed, but replaced with an equal extent of replacement plantings of the same species (from propagated material...
31) V.13 Any clearance of the Geranium in accordance with Condition V.12 shall be restricted to the minimum necessary to facilitate the works.

32) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:
   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

33) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:
   a) All unmodified areas in the vicinity of Rosebank Road;
   b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;
   c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

34) ARCH.4 In accordance with the ASMP, the following archaeological sites shall be fenced off and protected to the satisfaction of the Project archaeologist, prior to construction activities being undertaken:
   a) Recorded sites R11/2504, R11/2505, R11/2506 and R11/2507, located on the northern boundary of the designation adjacent to the Rosebank Road peninsula.
   b) Recorded site R11/2383 in the Oakley Creek Esplanade Reserve construction yard.

35) ARCH.5 In accordance with the ASMP, the following specific measures shall be implemented in the area identified as the “Oakley Inlet Heritage Area” (including recorded sites R11/2191, R11/2202, R11/2203 and R11/2459), located adjacent to the Great North Road Interchange:
   a) In determining the details of construction methodology and site access, the NZTA shall ensure that there is no impact on sites R11/2202, R11/2203 and the main features of site R11/2191 (the basalt walls, boiler, building foundations and platforms). When the details have been determined, a plan will be prepared in consultation with the Project archaeologist that outlines the areas of archaeological value to be fenced off and protected from any adverse effects during the construction process. The Heritage Manager, Environmental Services, Auckland Council shall be consulted in the drafting of the plan and shall certify that the extent and method of fencing will protect the areas of archaeological value prior to commencement of construction works within the area. This plan will be added to the Archaeological Constraints layer in the GIS layers.
(b) All works in the Oakley Inlet Heritage Area shall be monitored by the Project archaeologist;

(c) Machine access to construction works in this area shall be planned so as to minimise adverse effects on archaeological features;

(d) During and following removal of houses north of Cowley Street and west of Great North Road in the area where the mill workers’ cottages and mill race were once located, investigations shall be undertaken to establish and record any archaeological remains that may have survived;

(e) Remedial or limited restoration works shall be carried out to the basalt walls, wheel pit, boiler and bridge abutment of the mill/tannery/quarry site (R11/2191), to a specification prepared by a heritage professional, to ensure their long term preservation. The specification shall be prepared in consultation with the Heritage Manager, Environmental Services, Auckland Council;

(f) A vegetation management plan shall be prepared and implemented to remove vegetation that is damaging archaeological features in this area and to protect and enhance features with appropriate vegetation cover. This plan shall form part of the Waterview Reserve Restoration Plan (refer to Conditions ARCH.6 and OS.5) and shall be prepared in consultation with the Heritage Manager, Environmental Services, Auckland Council;

(g) The design and location of any walkways and paths and structures within the Oakley Inlet Heritage Area shall include consideration of historic paths and accessways (excluding the piers associated with the SH16 Interchange).

36) ARCH.6 The Project archaeologist shall be made part of the Waterview Reserve Restoration Plan (refer Condition OS.3) development team to provide advice on long term management of the “Oakley Inlet Heritage Area”. The Waterview Reserve Restoration Plan shall include provision for, as a minimum:

(a) A pedestrian bridge linking the northern and southern banks of the Oakley inlet shall be provided in the original location of the historical bridge to restore the historical connection between the two parts of the Oakley Inlet Heritage Area and make both parts easily accessible. The bridge is to be of a design appropriate to the historic form of this bridge but at a height above water to accommodate the passage of kayaks at high tide;

(b) Interpretative signage of the Oakley Inlet Heritage Area for public information and educational purposes;

(c) The management of planting to avoid encroachment of deep rooted trees on identified archaeological sites (including planting undertaken in accordance with Condition V.14).

37) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

38) ARCH.9 All Monterey Pines or oak trees (Quercus spp) over 10m in height within Sector 5 shall be identified and managed through the CEMP Amenity Tree process (Conditions CEMP.6(o) and (p)). Irrespective of their health (unless the Project Arborist and Auckland Council confirm that these trees pose an immediate hazard), these trees will be confirmed as Amenity Trees. These trees shall be retained where practicable. If removal of any of these trees is required for construction, they shall be replaced by trees of the same species (or as otherwise agreed through the Waterfront Reserve Restoration Plan) sized at 160Lt. The location of replacement specimens will be defined through planning of the Oakley Inlet
Heritage Area (as part of the Waterview Reserve Restoration Plan, refer Condition OS.5),
with the replanting of Monterey Pines to reflect their historic use as a boundary planting
species. Two trees shall be provided for every oak tree (Quercus spp) removed.

39) **E.1** The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing
at least 10 working days before the start date of the works authorised by this Consent.

40) **E.2** Prior to commencement of works, in each period between October 1 and April 30 that this
Consent is exercised, a pre-construction site meeting between Auckland Council and
relevant parties, including the primary contractor, shall be conducted. The approved
Contractors Erosion and Sediment Control Plan (CESCP) as per Condition E.5 of this
Consent shall be made available and discussed at the pre-construction meeting.

41) **E.4** A detailed schedule of construction activities shall be prepared and forwarded to the Major
Infrastructure Team Manager, Auckland Council prior to the commencement of works, and
updated at 3 monthly intervals during the works. These schedule shall include details of:

(a) The location, commencement date and expected duration of any major earthworks
operations, including but not limited to, the portal excavations and the Great North
Road cut and cover operation; and

(b) The proposed construction and methodology, including staging of earthworks.

42) **E.5** Prior to the commencement of works for each specific area and/or activity, a “Contractors
Erosion and Sediment Control Plan” (CESCP) shall be prepared. This document shall
follow the principles and practices within Technical Report G.22 Erosion and Sediment
Control Plan and shall detail any specific variations from that report. The CESCPs shall
include, but not be limited to:

(a) Contour information at suitable intervals;

(b) Erosion and sediment controls including specific pond design;

(c) Supporting calculations;

(d) Catchment boundaries for the sediment controls;

(e) Location of the works, and cut and fill operations;

(f) Details of construction methods to be employed, including timing and duration;

(g) A programme for managing exposed area, including progressive stabilisation
considerations;

(h) The identification of appropriately qualified and experienced staff to manage the
environmental issues onsite;

(i) The identification of staff who have clearly defined roles and responsibilities to monitor
compliance with the Consent Conditions and CESCP;

(j) Provision of details of a chain of responsibility for managing environmental issues and
details of responsible personnel; and

(k) The establishment of a sediment control team (including representatives from the
contractor, Auckland Council and the NZTA) to meet and review erosion and sediment
control on a weekly basis.

43) **E.6** For each specific area of works, a CESCP shall be submitted a minimum of 20 working
days prior to earthworks commencing, for the written approval of the Major Infrastructure
Team Manager, Auckland Council, which shall be obtained prior to earthworks
commencing. The approved CESCP shall be implemented accordingly.

44) **E.7** Any amendments to the CESCPs must be approved by the Major Infrastructure Team
Manager, Auckland Council in writing at least 10 working days prior to any amendment
being implemented.

45) E.12 All perimeter controls shall be operational before earthworks begin.

46) E.16 Prior to the commissioning of chemical treatments for sediment management purposes (as per Condition E.17), the NZTA shall provide the Major Infrastructure Team Manager, Auckland Council with a Chemical Treatment Plan (CTP), for confirmation by the Major Infrastructure Team Manager, Auckland Council that it will achieve the standards set out in the CESCP required under Condition E.6. The CTP shall follow the principles and chemical treatment details outlined within the Technical Report G.22 Erosion and Sediment Control Plan and shall include as a minimum:

(a) Specific design details of the chemical treatment system;
(b) Monitoring, maintenance (including post-storm) and contingency programme (including a Record Sheet);
(c) Details of optimum dosage (including assumptions);
(d) Results of the initial flocculation trial which will build on the information within Technical Report G.22 Erosion and Sediment Control Plan;
(e) A spill contingency plan;
(f) Details of the person or bodies that will hold responsibility for long-term maintenance of the flocculation treatment system and the organisational structure which will support this structure.

Any amendments to the CTP shall be approved by the Major Infrastructure Team Manager, Auckland Council, in writing, at least 10 working days prior to implementation.

47) E.13 Prior to the construction of sediment retention ponds, super silt fences or other devices approved by the Major Infrastructure Team Manager, Auckland Council shall be constructed below the entire area of the sediment retention pond footprint.

48) E.18 Prior to bulk earthworks commencing, a certificate signed by an appropriately qualified and chartered professional engineer (“as builts”) shall be submitted to the Major Infrastructure Team Manager, Auckland Council to certify that the erosion and sediment controls have been constructed in accordance with the CESCP as specified in Condition E.5 of this consent. Certified controls shall include sediment retention ponds, chemical treatment systems, decanting earth bunds, super silt fences, silt fences and diversion channels/bunds. The certification for any subsequent measures shall be supplied to the Major Infrastructure Team Manager, Auckland Council immediately upon completion of construction of those measures.

Information supplied to Auckland Council, if applicable shall include:

(a) Contributing catchment area;
(b) Retention volume of structure (dead storage and live storage measured to the top of the primary spillway);
(c) Shape of structure (dimensions of structure);
(d) Position of inlets/outlets; and
(e) Stabilisation of the structure.

CONSTRUCTION CONDITIONS

49) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

50) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.
51) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

52) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

(a) Compliance with designation and consent conditions;
(b) Any changes to construction methods;
(c) Key changes to roles and responsibilities within the Project;
(d) Changes in industry best practice standards;
(e) Changes in legal or other requirements;
(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and
(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

53) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.

Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.

54) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

55) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located
The NZTA shall maintain a record of all complaints made to this number, email or any site office, including the full details of the complainant and the nature of the complaint;

Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

The NZTA shall undertake construction works so as to avoid significant long duration impacts or the full closure of Te Atatu Road for all road users heading to or from the Te Atatu Peninsula and to ensure that access for emergency service vehicles is maintained.

The NZTA shall restrict construction truck movements during peak hours (6:00 to 9:00 and 16:00 to 19:00) on weekdays and during the peak periods at the weekends to avoid the following:

(a) Te Atatu Road Interchange, during both morning and afternoon peak hours
(b) Great North Road Interchange, city bound during the morning peak hours
(c) Great North Road Interchange, west bound onto SH16 and southbound onto Great North Road during the afternoon peak.

Construction truck movements during these hours shall only be allowed under exceptional circumstances agreed in advance with the Traffic Management Project Governance Group.

59) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

60) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.

(a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
(b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

61) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

62) SO.2 In addition to Condition SO.1(b) above, where noisy construction activities (that are projected to exceed the Noise Criteria in the CNVMP) are proposed in close proximity or adjacent to schools/ childcare centres, the NZTA shall, when preparing their SSNMP (in accordance with Condition CNV.1) give specific consideration to options to carry out these works outside school hours or during school holidays as a mitigation option.

63) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

64) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

65) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

66) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

67) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

[Construction / Post Construction]

68) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then
the following procedures shall apply:

(a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

69) ARCH.7 In accordance with the ASMP, any works to the dry stone wall (recorded site R11/2213) located on the north western boundary of the Great North Road Interchange, shall be minimised and managed in accordance with the following:

(a) If it is necessary to demolish part of the wall, the stone shall be used to repair the remainder of the wall. Appropriate reuse of any surplus stone will be determined following consultation with the NZHPT and Auckland Council.

(b) The remainder of the stone wall shall be protected from construction machinery by the use of waratahs and an adequate buffer area prior to earthworks commencing.

(c) The remainder of the stone wall shall be carefully cleared of vegetation growth and repaired where necessary to a specification prepared by a heritage professional employed at the expense of the NZTA.

70) E.3 Erosion and sediment control shall be in general accordance with the plans and information submitted with the application, and in particular, Technical Report G.22 Erosion and Sediment Control Plan, subject to such amendments as may be required by the following conditions of this Consent.

71) E.8 Erosion and sediment control measures shall be constructed and maintained in accordance with the ARC Technical Report 90 (TP90) (and any amendments to that document), except where a higher standard is detailed in the documents referred to in Conditions E.3 and E.5 above, in which case the higher standard shall apply.

72) E.10 Prior to any decision to discharge waters that have collected in coffer dam sumps to the coastal marine area (CMA), the following procedures shall be followed;

(a) Sump waters shall be tested for pH and turbidity; and

(b) Discharge to the CMA shall only be permitted where;

(ii) pH does not exceed a threshold of pH 8.5; and

(iii) turbidity or suspended solids concentrations do not exceed a threshold, to be agreed between NZTA and the Major Infrastructure Team Manager, Auckland Council prior to use of temporary coffer dams.

In the event that measured pH and/or turbidity exceeds these thresholds, the sump waters shall be treated to the appropriate standard prior to discharge to the CMA or shall be disposed of to an approved location outside of the CMA. The proposed treatment methodology shall be included within the CESP and shall be submitted to the Major Infrastructure Team Manager, Auckland Council for its approval at least 20 working days prior to implementation.

73) E.11 All ‘cleanwater’ runoff from stabilised surfaces, including catchment areas above the site,
shall be diverted away from earthwork areas via a stabilised system, so as to prevent surface erosion.

74) E.14 The NZTA shall ensure that procedures are adopted to prevent the deposition of slurry, clay or other materials on the roads by vehicles leaving the site. Should the exercise of this Consent result in material being deposited on the road, that material shall be removed immediately to the satisfaction of the Major Infrastructure Team Manager, Auckland Council.

75) E.17 All sediment retention ponds and decanting earth bunds are to be chemically treated in accordance with the CTP required under Condition E.16 of this consent.

76) E.19 A copy of the “as-built(s)” and approved CESC Ps shall be kept on site, and all erosion and sediment control measures (including staging boundaries and particularly the extent of exposed areas) shall be updated as soon as practicable as changes are made. As-built plans shall be accompanied by text detailing the relevant earthworks methodology, constraints and likely progressions, and shall be revised as required to enable clear interpretation as to the day to day operation and management of erosion and sediment controls.

77) E.21 The site shall be stabilised against erosion as soon as practicable, and in a progressive manner, as earthworks are finished over various areas of the site. Areas of bulk earthworks not actively worked for a period of two weeks shall be stabilised.

78) E.22 The NZTA shall ensure that the following earthworks shall be stabilised as soon as practicable after completion thereof, or within 5 working days of completion, whichever shall occur first:
   (a) Temporary erosion and sediment controls; and
   (b) Construction yards.

79) E.23 No surface earthworks on the site shall be undertaken between 1 May and 30 September in any year, without the written approval of the Major Infrastructure Team Manager, Auckland Council. Earthworks in this regard refers to bulk earthworks (cut/fill/waste) associated with the site.

POST-CONSTRUCTION CONDITIONS

80) E.15 Notice shall be given to the Major Infrastructure Team Manager, Auckland Council prior to any erosion and sediment control measures being removed and/or on completion of the works.

81) E.24 Revegetation/stabilisation shall be completed by 30 April in the year of bulk earthworks in accordance with measures detailed in the approved CESC, unless a later date is approved in writing by the Major Infrastructure Team Manager, Auckland Council at least two weeks before 30 April.

MONITORING

82) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

83) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:
(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

84) V.14 A rock forest restoration programme shall be undertaken by the NZTA on the northern banks of the Oakley Creek Inlet in accordance with the concepts of the ECOMP, Appendix H ‘Rock Forest Provisional Concept Plan’. A detailed planting plan shall be submitted to Auckland Council for approval, prior to implementation of the planting, with the plan to include planting specifications and management techniques. The detailed planting plan shall be integrated with cultural heritage values including, but not limited to, those shown on the plan entitled ‘Oakley Inlet Heritage Area’ (UDL Plan 224 refer Schedule A, Row 17).

85) E.9 The NZTA shall ensure that all discharges from tunnel dewatering activities shall be treated and monitoring undertaken of the discharge into the Oakley Creek, and of the Oakley Creek itself, to determine an appropriate water quality standard for turbidity and pH for the discharge at the portal location. On completion of 3 months of the monitoring programme, this water quality standard shall be applied to the treatment pump system and set at a limit that reflects the monitoring results. The monitoring programme shall be developed by the NZTA and approved by the Major Infrastructure Team Manager, Auckland Council prior to any tunnel excavation works commencing.

Initial pump treatment standards shall be set at a turbidity of 50NTU and pH of 7.5. Ongoing monitoring and changes to the turbidity and pH standards shall be implemented with the approval of the Major Infrastructure Team Manager, Auckland Council.

86) E.20 The NZTA shall carry out monitoring in accordance with the Technical Report G.22 Erosion and Sediment Control Plan and the approved CESCP and shall maintain records detailing:

(a) The monitoring undertaken;

(b) The erosion and sediment controls that required maintenance;

(c) The time when the maintenance was completed; and

(d) Areas of non-compliance with the erosion and sediment control monitoring plan (if any) and the reasons for the non-compliance.

This information shall be made available to the Auckland Council upon request.

ADVICE NOTE

Pre-Construction

ARCH Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.
EPA 10/2.011 – (ARC: 38316)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Use, Erection or Placement of New Structures (Sector 9):

For a stormwater pipe underneath Oakley Creek as a permanent stream (over 50m)

Lapse Period: 10 years

Code:

RC = Standard Resource Consent Conditions
CEMP = Construction Environmental Management Plan Conditions
PI = Public Information Conditions
TT = Temporary Traffic Conditions
OT = Operational Traffic Conditions
CNV = Noise and Vibration Conditions – Construction
LV = Landscape and Visual Conditions
V = Vegetation Conditions
ARCH = Archaeology Conditions
STW = Streamworks Conditions
F = Freshwater Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise
of the consent and which it is appropriate to deal with at a later stage; or
(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination.

The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

**Pre-Construction**

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation
buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to
detail changes to construction footprint for the amended location of ventilation stacks
and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing
amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and
for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer
Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9),
detailing the amended location of the Northern Ventilation Stack and the design and
location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by
Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:
(i) Extend these areas in geographic extent to provide for the works identified in the
Management Plan notations identified in the OS Conditions (in particular OS.5
and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park,
Howlett Reserve and Waterview Esplanade Reserve); and
(ii) Exclude the operational area of designation required for the northern ventilation
stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and
replacements needs to be updated to recolour the two land parcels on Hendon Avenue
(which are excluded from the replacement calculations) to ‘brown’ to confirm they are
part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise
the draft Construction Environmental Management Plan (CEMP) including all the
Management Plans which form part of the CEMP and are included as appendices,
submitted with this application to ensure compliance with the consent and designation
conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major
Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to
the commencement of works to certify compliance and consistency with the conditions.
Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the
conditions. Any amendments will be limited to reflecting the requirements of the conditions,
specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction
Yard 7. When the CEMP is being updated and finalised, consideration must be given to the
contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A)
recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of
others, the NZTA may provide staged or site specific CEMPs for those works to the Major
Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team
Manager about the need and timing for any other site-specific or staged CEMPs and shall
provide any required site-specific or staged CEMPs to the Major Infrastructure Team
Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) **CEMP.2** The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:
   (a) Staff and contractors’ responsibilities;
   (b) Training requirements for employees, sub-contractors and visitors;
   (c) Environmental incident and emergency management;
   (d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
   (e) Environmental complaints management (including the procedures required under Condition PI.4);
   (f) Compliance monitoring;
   (g) Reporting (including detail on the frequency of reporting to the Auckland Council);
   (h) Environmental auditing; and
   (i) Corrective action.

12) **CEMP.3** The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:
   (a) Construction Noise and Vibration Management Plan (CNVMP);
   (b) Construction Air Quality Management Plan (CAQMP);
   (c) Erosion and Sediment Control Plan (ESCP);
   (d) Temporary Stormwater Management Plan (TSMP);
   (e) Ecological Management Plan (ECOMP);
   (f) Groundwater Management Plan (GWMP);
   (g) Settlement Effects Management Plan (SEMP);
   (h) Contaminated Soils Management Plan (CSMP);
   (i) Hazardous Substances Management Plan (HSMP);
   (j) Archaeological Site Management Plan (ASMP);
   (k) Construction Traffic Management Plan (CTMP);
   (l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
   (m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
   (n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10);
   and
   (o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) **CEMP.6** The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:
   (a) Details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
   (b) The location of large notice boards that clearly identify the NZTA and the Project name,
together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks
(including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

18) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

19) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

20) CEMP.8 All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

21) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

22) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

(a) Compliance with designation and consent conditions;

(b) Any changes to construction methods;

(c) Key changes to roles and responsibilities within the Project;

(d) Changes in industry best practice standards;

(e) Changes in legal or other requirements;

(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and

(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

23) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.'
Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.

PUBLIC INFORMATION CONDITIONS

Pre-Construction

24) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

25) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will includes details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;
(c) The database of stakeholders and residents who will be communicated with;
(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);
(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);
(f) Any stakeholder specific communication plans required; and
(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

26) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:

(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)

(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:

(a) Auckland Council and Auckland Transport;

(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);

(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;

(d) Department of Conservation;

(e) Local Boards;

(f) Iwi groups with Mana Whenua;

(g) Public transport providers; and

(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

Construction

27) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and

(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

28) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;

(b) The NZTA shall maintain a record of all complaints made to this number, email or any site office, including the full details of the complainant and the nature of the complaint;
(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

29) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

30) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of construction of the Project on the affected road network;
(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;
(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

31) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

32) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);
(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;
(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;
(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;
(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;
(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);
(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and
(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

33) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.

34) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to,
as far as practicable, enable continued public walking and cycling passage along the
existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange)
and along Great North Road and the public walkway along Oakley Creek, with any
interruptions being as short as feasible.

Construction

35) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on
SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great
North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and
during the peak periods on weekends, for the duration of the temporary construction
programme.

36) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and
volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the
construction period to confirm the expected traffic effects as set out in the Temporary Traffic
Assessment (Technical Report G.16) submitted with this application.

(a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
(b) Monitoring results will be made available to the Traffic Operations Manager, Auckland
Transport on request.

37) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic
conditions are significantly different from those expected, the SSTMPs will be reviewed and
as appropriate amended to the satisfaction of the Traffic Management Project Governance
Group.

OPERATIONAL TRAFFIC CONDITIONS

Construction

38) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration
Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project
integrates with the existing local road network and with future improvements (identified in
the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The
NIP shall include details of proposed physical works at the interface between the State
highway and the local road network, and shall address such matters as pedestrian/ cycle
ways, lane configuration, traffic signal co-ordination, signage and provision for buses

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great
North Road as part of the reinstatement of Great North Road, as proposed by
Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed
Road Marking (Schedule A, Row 33), subject to the agreement with Auckland
Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in
the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule
A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the
structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m
footpath on Richardson Road Bridge, subject to confirming appropriate bus stop
locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between
the Waterview Connection Project and any projects being progressed by Auckland
(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to
minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the
Great North Road Interchange.

(g) As part of detailed design at the Te Atatu Interchange, the installation of underpasses
and/or overbridges, provided however that should same not prove feasible in civil or
traffic engineering design terms, the installation of coordinated traffic signal operation
for cyclists on the north-western cycleway by means of synchronised cycle lights which
seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as
at the time of construction works for the Project.

NOISE AND VIBRATION CONDITIONS - CONSTRUCTION

Pre-Construction

39) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and
Vibration Management Plan (CNVMP) throughout the entire construction period of the
Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;

(b) the vibration criteria set out in Condition CNV.4 below; or

(c) where (a) or (b) cannot be met, the process that will be followed to appropriately
mitigate noise and vibration effects including methods that may be applied outside the
designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland
Council at least 20 working days prior to construction activities being undertaken for review
and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and
CNV.4);

(ii) Hours of operation, including times and days when noisy and/or vibration
inducing construction activities would occur;

(iii) Machinery and equipment to be used;

(iv) Vibration testing of equipment to confirm safe distances to buildings prior to
construction;

(v) Preparation of building condition surveys of critical dwellings prior to, during and
after completion of construction works;

(vi) Roles and responsibilities of personnel on site;

(vii) Construction operator training procedures;

(viii) Methods for monitoring and reporting on construction noise and vibration;

(ix) A hierarchy of mitigation options that will be assessed for the Project noise
mitigation, including alternative strategies where full compliance with the
relevant noise and/or vibration criteria cannot be achieved;

(x) Management schedules containing site specific information;

(xi) Measures for liaising with and notifying potentially affected receivers of
proposed construction activities and the potential for noise and vibration effects,
- PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the commencement of works.

- Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.

- The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

  (xii) Methods for receiving and handling complaints about construction noise and vibration;

  (xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

  (xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

  (xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

  (xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.
Construction

40) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td>LAeq(T)</td>
<td>L_Aeq(T)</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public Holidays</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>

(b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LAeq(T)</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>L_Aeq(T)</td>
</tr>
<tr>
<td>0600-2200</td>
<td>35 dB L_Aeq(T) All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB L_Aeq(T) Bedrooms</td>
</tr>
</tbody>
</table>
(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB LAeq(T) or existing, whichever is the higher Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB LAeq (T) or existing, whichever is the higher School hall, lecture theatres</td>
</tr>
</tbody>
</table>

*Note: In Condition CNV.2(d) “Teaching hours” means:*

Primary schools and Kindergartens: 9am to 3pm

Unitec: 8am to 9pm

41) CNV.7 Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

42) CNV.13 SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

*Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1(ix).*
LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

43) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

VEGETATION CONDITIONS

General

44) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

Pre-Construction

45) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and
(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

46) V.2 The NZTA shall employ a suitably experienced botanist (‘nominated botanist’) for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

47) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

48) V.12 Should the taxonomic and rarity status of the Geranium species growing alongside Oakley Creek in Hendon Park and Alan Wood Reserve not be confirmed before the
commencement of works in this area, then this species shall be treated as Significant Vegetation and shall either be:

(a) Protected in full or in part, and/or
(b) Where protection is not practicable, relocated to a suitable and safe habitat elsewhere; or
(c) Where protection or translocation are not practicable, this population shall be cleared in locations where required to allow works to proceed, but replaced with an equal extent of replacement plantings of the same species (from propagated material sourced from the existing population) planted at a safe and suitable habitat nearby in Hendon Park/Alan Wood Reserve.

49) V.13 Any clearance of the Geranium in accordance with Condition V.12 shall be restricted to the minimum necessary to facilitate the works.

Construction

50) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

51) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

52) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

53) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

Post-Construction / Operations

54) V.14 A rock forest restoration programme shall be undertaken by the NZTA on the northern banks of the Oakley Creek Inlet in accordance with the concepts of the ECOMP, Appendix H ‘Rock Forest Provisional Concept Plan’. A detailed planting plan shall be submitted to Auckland Council for approval, prior to implementation of the planting, with the plan to include planting specifications and management techniques. The detailed planting plan shall be integrated with cultural heritage values including, but not limited to, those shown on the plan entitled ‘Oakley Inlet Heritage Area’ (UDL Plan 224 refer Schedule A, Row 17).

Monitoring

55) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

56) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:
(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

**ARCHAEOLOGY CONDITIONS**

**Pre-Construction**

57) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:

   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

58) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:

   a) All unmodified areas in the vicinity of Rosebank Road;
   b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;
   c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

59) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

60) ARCH Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

**Construction**

61) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:

   a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

STREAMWORKS CONDITIONS

General

62) STW.21 The realignments necessary for highway construction will be rehabilitated separately to the Project’s SEV off-set mitigation requirement of 343 metres. The Project’s SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer Schedule A, Row 23).

Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

63) STW.31 Design of flood defences for the southern portal shall be in accordance with the catchment management option preferred by Auckland Council with allowances for climate change, sea-level rise and Maximum Probable Development.

Pre-Construction

64) STW.2 Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

65) STW.3 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

66) STW.4 Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

67) STW.5 At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:

(a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;

(b) Construction erosion and sediment control plans (ESCP).

68) STW.6 The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the
commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:

(a) The commencement date and expected duration of the streamworks;
(b) The location of any works and structures in relation to the streamworks; and
(c) Dates for the implementation of erosion and sediment controls.

69) STW.16 The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

70) STW.20 The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be limited to, the following:

(a) The nature of works to be undertaken;
(b) The location of works;
(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication of the existing waterfall located on the Stoddard Road tributary near the confluence with Oakley Creek in a similar position within the new realignment;
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;
(e) Timing of implementation;
(f) The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and
(g) How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:

(i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and
(ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss *Fissidens berteroi*.

Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).

71) STW.22 The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and

72) STW.25 Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any amendment being implemented.

73) STW.29 Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

Construction

74) STW.1 The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 Assessment of Stormwater and Streamworks Effects and Technical Report G.22 Erosion and Sediment Control Plan, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

75) STW.7 No streamworks shall be undertaken between 1 May and 30 September unless written approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.

76) STW.8 All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 Erosion and Sediment Control Plan submitted with this application.

77) STW.9 The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

78) STW.10 All uncompacted material shall be kept clear of the channel during and after streamworks.

79) STW.11 The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

80) STW.12 The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

81) STW.13 All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

82) STW.14 The NZTA shall ensure that:

(a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and

(b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

83) STW.26 All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

84) STW.27 Works in the floodplain (including motorway embankments, ancillary earthworks and
streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:

   (i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and
   (ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).

(b) Technical Report G.15 Assessment of Stormwater and Streamworks Effects.

**Post-Construction / Operations**

85) STW.23 The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

86) STW.24 The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

87) STW.28 Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council “as built” plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with Condition STW.27.

88) STW.30 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

**Monitoring**

89) STW.15 The design engineer and Project ecologist shall monitor the construction of the streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

**FRESHWATER CONDITIONS**

**Pre-Construction**

90) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

(a) Monitoring of freshwater ecology;
(b) Monitoring of freshwater and stream sediment quality;
(c) Trigger event criteria for undertaking additional monitoring;
(d) Procedures for responding to accidental discharges of contaminants to the freshwater
(e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.

**Monitoring**

91) **F.2** The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;
(b) Macro invertebrate sampling; and
(c) Freshwater fish monitoring.

92) **F.3** The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.
(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season and within one month either side of the end of the earthworks season.
(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse effects have occurred or are likely to occur from the Project.
(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.
(e) Four "event based" samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.
(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are to be analysed for metals (Zn, Cu and Pb), polycyclic aromatic hydrocarbons (PAH), hydrocarbons (TPH) and semi-volatile organic compounds.

Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

93) **F.4** The NZTA shall undertake additional freshwater monitoring in the event of a ‘trigger event’ for freshwater habitats. For the purposes of this consent, a ‘trigger event’ for freshwater habitats is defined in the ECOMP.

94) **F.5** The NZTAs ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.
**Reporting**

95) **F.6** Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.
EPA 10/2.012 – (ARC: 38317)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Use, Erection or Placement of New Structures (Sector 9):

For bridges constructed over Oakley Creek (Natural Stream) within Sector 9 – includes Hendon Park bridge and cycleway bridges.

Lapse Period: 10 years

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STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise
4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation
(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:
   i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6), (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and
   ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1A In the case of the trial embankment, where works will commence well in advance of the main construction works for the Causeway, the NZTA will provide to the Major Infrastructure Team Manager, Auckland Council, a site-specific CEMP for review and approval at least 20 working days prior to commencement of the trial embankment works.
11) **CEMP.1B** For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

12) **CEMP.2** The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:
   (a) Staff and contractors’ responsibilities;
   (b) Training requirements for employees, sub-contractors and visitors;
   (c) Environmental incident and emergency management;
   (d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
   (e) Environmental complaints management (including the procedures required under Condition PI.4);
   (f) Compliance monitoring;
   (g) Reporting (including detail on the frequency of reporting to the Auckland Council);
   (h) Environmental auditing; and
   (i) Corrective action.

13) **CEMP.3** The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:
   (a) Construction Noise and Vibration Management Plan (CNVMP);
   (b) Construction Air Quality Management Plan (CAQMP);
   (c) Erosion and Sediment Control Plan (ESCP);
   (d) Temporary Stormwater Management Plan (TSMP);
   (e) Ecological Management Plan (ECOMP);
   (f) Groundwater Management Plan (GWMP);
   (g) Settlement Effects Management Plan (SEMP);
   (h) Contaminated Soils Management Plan (CSMP);
   (i) Hazardous Substances Management Plan (HSMP);
   (j) Archaeological Site Management Plan (ASMP);
   (k) Construction Traffic Management Plan (CTMP);
   (l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
   (m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
   (n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10) ; and
   (o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

14) **CEMP.6** The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the
CEMP shall confirm that the CEMP includes details of the following:

(a) details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

15) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

16) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

17) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall
be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

18) CEMP.14 The CEMP shall include, as an appendix, an Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP). The EISDCMP shall be provided to the Major Infrastructure Team Manager, Auckland Council, and include:

(a) Methods and measures:
   (i) To ensure that the existing high voltage infrastructure can be accessed for maintenance at all reasonable times, or emergency works at all times, during and after construction activities.
   (ii) To appropriately manage the effects of dust and any other material potentially resulting from construction activities and able to cause material damage, beyond normal wear and tear, to the overhead transmission lines.
   (iii) To ensure that no activity is undertaken during construction that would result in ground vibrations and/or ground instability likely to cause material damage to the transmission lines, including support structures.
   (iv) To ensure that changes to the drainage patterns and runoff characteristics do not result in adverse effects from stormwater on the foundations for any high voltage transmission line support structure.

(b) Sufficient detail to confirm that new planting and maintenance of vegetation will comply with the New Zealand Electricity (Hazard from Trees) Regulations 2003, including, but not limited to, the provisions of Schedule (Growth Limit Zones) to those Regulations.

(c) Sufficient detail to confirm that the works will comply with the New Zealand Electrical Code of Practice for Electrical Safe Distances (NZECP 34:2001), including, but not limited to, the provisions of:
   (i) Clause 2.2 with respect to excavations near overhead support structures;
   (ii) Clause 2.4 with respect to buildings near overhead support structures;
   (iii) Section 3 with respect to minimum separation between buildings and conductors;
   (iv) Section 5 with respect to minimum safe distances for the operation of mobile plant; and,
   (v) Table 4 with respect to minimum safe separation distances between the ground and the overhead conductors.

(d) Confirmation that Transpower has been provided a copy of the EISDCMP for their review at least 20 working days prior to construction.

Advice note: With respect to clause (c), specific consideration must be given to the height and location of temporary structures (such as Project offices and other construction site facilities) and permanent structures (such as lighting poles, signage, gantries and acoustic barriers).

19) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:
(a) It is noted that if separate consents are required for relocations for any services of
Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

20) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

21) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

22) CEMP.8 All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

23) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

24) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

(a) Compliance with designation and consent conditions;
(b) Any changes to construction methods;
(c) Key changes to roles and responsibilities within the Project;
(d) Changes in industry best practice standards;
(e) Changes in legal or other requirements;
(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and
(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

25) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.’

Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.
PUBLIC INFORMATION CONDITIONS

Pre-Construction

26) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

27) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will include details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c) The database of stakeholders and residents who will be communicated with;

(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f) Any stakeholder specific communication plans required; and

(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

28) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:

(a) Te Atatu (including the SH16 Causeway)

(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)

(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the
members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:

(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

**Construction**

29) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:
(a) Any traffic disruptions or controls or changes to property access, pedestrian/cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

30) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:
(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;
(b) The NZTA shall maintain a record of all complaints made to this number, email or any site office, including the full details of the complainant and the nature of the complaint;
(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;
(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, 'where necessary' refers to where the works are not being carried
(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and 

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

31) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

32) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.
33) **TT.2** The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

34) **TT.3** Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

35) **TT.4** The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.

36) **TT.6** The SSTMPs shall include measures developed in consultation with Auckland Transport to, as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.
Construction

37) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

38) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.

(a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
(b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

39) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

OPERATIONAL TRAFFIC CONDITIONS

Construction

40) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the...
As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.

**NOISE AND VIBRATION CONDITIONS - CONSTRUCTION**

**Pre-Construction**

CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;
(b) the vibration criteria set out in Condition CNV.4 below; or
(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);
(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;
(iii) Machinery and equipment to be used;
(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;
(vi) Roles and responsibilities of personnel on site;
(vii) Construction operator training procedures;
(viii) Methods for monitoring and reporting on construction noise and vibration;
(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;
(x) Management schedules containing site specific information;
(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:

- PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the
- Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.

- The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.
42) **CNV.2**  
Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 "Acoustics - Construction Noise" and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) **Project Construction Noise Criteria: Residential Receivers**

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sectors 1 to 7</td>
<td>Sectors 8 and 9</td>
</tr>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public Holidays</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>

(b) **Project Construction Noise Criteria: Commercial and Industrial Receivers**

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td>$L_{Aeq(T)}$</td>
<td></td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) **Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers**

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB $L_{Aeq(T)}$ All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB $L_{Aeq(T)}$ Bedrooms</td>
</tr>
</tbody>
</table>
(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>(School Days)</td>
<td></td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>45 dB $L_{Aeq(T)}$ or existing, whichever is the higher Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB $L_{Aeq(T)}$ or existing, whichever is the higher School hall, lecture theatres</td>
</tr>
</tbody>
</table>

Note: In Condition CNV2(d) “Teaching hours” means:

Primary schools and Kindergartens: 9am to 3pm
Unitec: 8am to 9pm

43) CNV.7 Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

44) CNV.8 Pile driving or pile removal shall not be undertaken at night (i.e. during the hours of 20:00 – 06:30).

45) CNV.13 SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).

LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

46) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23):
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

47) LV.2 In certifying the UDL Plans, prepared in accordance with Condition LV.1, the Major Infrastructure Team Manager, Auckland Council shall be satisfied the UDL plans includes:
(a) The visual mitigation of infrastructure as detailed in Section B of the UDLF (refer Schedule A, Row 38).
(b) Incorporation of art or art through design of structures, particularly as it relates to noise barriers and the Great North Road Interchange piers and ramps (Refer to clauses (g) and (i) below).
(c) Planting to screen houses and noise walls (including cross section details);
(d) Planting along the corridor on Traherne Island, in accordance with these conditions and the Ecological Management Plan;
(e) Specimen planting on the Great North Road Interchange and the Te Atatu Road Interchange;
(f) Specimen planting at the tunnel portals (except where this is within the OPW area);
(g) Finalisation of the noise barriers (as required by Condition ON.3(a)) in accordance with the design principles for noise walls (refer Schedule A, Row 32);
(h) Delineation of the final areas of the Open Space Restoration Plans in accordance with the Open Space Restoration Plans (Schedule A, Row 30), and reference that all works within the Open Space Restoration Plan Areas are subject to Conditions OS.1 to OS.8;
(i) Oakley Inlet Heritage Plan, prepared in accordance with Conditions OS.5, and in particular, consideration shall be given to the design treatment of the Great North Road Interchange piers and ramps to take into consideration the impact of the structures on the visual quality of the open space beneath;
(j) Ecological Management Plan, prepared in accordance with Conditions V.1, A.1, H.1, F.1 and M.1;
(k) Western Ring Route: Maioro Street Interchange and Waterview Connection - Oakley Creek Rehabilitation and Restoration Guidelines (Boffa Miskell, 2010); and
(l) Details of artworks or art through design of structures within the Project (e.g. design detailing of median barriers, bridge railings, safety barriers, piers, retaining walls and tunnel portals), in accordance with Section B of the Urban Landscape and Design Framework (UDLF June 2010) (refer Schedule A, Row 38) and F.8:Plans of Structures and Architectural Features, but excluding the north and south ventilation buildings, plans sections and elevations.
VEGETATION CONDITIONS

General

48) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

Pre-Construction

49) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and

(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

50) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

51) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

52) V.12 Should the taxonomic and rarity status of the Geranium species growing alongside Oakley Creek in Hendon Park and Alan Wood Reserve not be confirmed before the commencement of works in this area, then this species shall be treated as Significant Vegetation and shall either be:

(a) Protected in full or in part, and/or

(b) Where protection is not practicable, relocated to a suitable and safe habitat elsewhere; or

(c) Where protection or translocation are not practicable, this population shall be cleared in locations where required to allow works to proceed, but replaced with an equal extent of replacement plantings of the same species (from propagated material sourced from the existing population) planted at a safe and suitable habitat nearby in Hendon Park/Alan Wood Reserve.

53) V.13 Any clearance of the Geranium in accordance with Condition V.12 shall be restricted to the minimum necessary to facilitate the works.

Construction

54) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these 'weeds' has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with
the measures set out in the ECOMP.

55) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

56) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

57) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

Post-Construction / Operations

58) V.14 A rock forest restoration programme shall be undertaken by the NZTA on the northern banks of the Oakley Creek Inlet in accordance with the concepts of the ECOMP, Appendix H ‘Rock Forest Provisional Concept Plan’. A detailed planting plan shall be submitted to Auckland Council for approval, prior to implementation of the planting, with the plan to include planting specifications and management techniques. The detailed planting plan shall be integrated with cultural heritage values including, but not limited to, those shown on the plan entitled ‘Oakley Inlet Heritage Area’ (UDL Plan 224 refer Schedule A, Row 17).

Monitoring

59) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

60) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:

(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

ARCHAEOLOGY CONDITIONS

Pre-Construction

61) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:

a) Identification of the Project archaeologist, their role and responsibility on the Project;

b) Who reports to the Project archaeologist;

c) Specific sites requiring supervision, and measures to be undertaken to protect and
d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and

e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

62) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:

(a) All unmodified areas in the vicinity of Rosebank Road;

(b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;

(c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;

(d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

63) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

64) ARCH. Advice
Note Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Construction

65) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:

(a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;

(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

STREAMWORKS CONDITIONS

General

66) STW.21 The realignments necessary for highway construction will be rehabilitated separately to the Project’s SEV off-set mitigation requirement of 343 metres. The Project’s SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer Schedule A, Row 23).
Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

67) STW.31 Design of flood defences for the southern portal shall be in accordance with the catchment management option preferred by Auckland Council with allowances for climate change, sea-level rise and Maximum Probable Development.

Pre-Construction

68) STW.2 Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

69) STW.3 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

70) STW.4 Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

71) STW.5 At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:

(a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;
(b) Construction erosion and sediment control plans (ESCP).

72) STW.6 The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:

(a) The commencement date and expected duration of the streamworks;
(b) The location of any works and structures in relation to the streamworks; and
(c) Dates for the implementation of erosion and sediment controls.

73) STW.16 The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

74) STW.20 The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be
limited to, the following:

(a) The nature of works to be undertaken;
(b) The location of works;
(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication of the existing waterfall located on the Stoddard Road tributary near the confluence with Oakley Creek in a similar position within the new realignment;
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;
(e) Timing of implementation;
(f) The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and

(g) How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:

   (i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and
   (ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss *Fissidens berteroi*.

*Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).*

75) **STW.22** The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” (Boffa Miskell, 2010) appended to *Technical Report G.6 Assessment of Freshwater Ecological Effects*.

76) **STW.25** Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any amendment being implemented.

77) **STW.29** Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

**Construction**

78) **STW.1** The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 *Assessment of Stormwater and Streamworks Effects* and Technical Report G.22 *Erosion and Sediment Control Plan*, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to *Technical Report G.6 Assessment of*
Freshwater Ecological Effects.

79) STW.7 No streamworks shall be undertaken between 1 May and 30 September unless written approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.

80) STW.8 All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 Erosion and Sediment Control Plan submitted with this application.

81) STW.9 The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

82) STW.10 All uncompacted material shall be kept clear of the channel during and after streamworks.

83) STW.11 The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

84) STW.12 The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

85) STW.13 All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

86) STW.14 The NZTA shall ensure that:

(a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and

(b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

87) STW.18 Any erosion occurring as a result of construction of the Oakley Creek bridge (SH20) shall be remedied as soon as possible and to the satisfaction of the Major Infrastructure Team Manager, Auckland Council.

88) STW.19 The area of Oakley Creek beneath the Oakley Creek bridge (SH20) shall be maintained free of debris to ensure stream flows are not restricted.

89) STW.26 All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

90) STW.27 Works in the floodplain (including motorway embankments, ancillary earthworks and streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:


(i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and

(ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).

(b) Technical Report G.15 Assessment of Stormwater and Streamworks Effects.
**Post-Construction / Operations**

91) STW.17 The NZTA shall submit a certificate signed by an appropriately qualified and experienced engineer to certify that the Oakley Creek SH20 motorway bridge has been constructed in accordance with the drawings supplied with this application, within 3 months of completion of the structure.

92) STW.23 The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

93) STW.24 The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

94) STW.28 Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council "as built" plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with Condition STW.27.

95) STW.30 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

**Monitoring**

96) STW.15 The design engineer and Project ecologist shall monitor the construction of the streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

**FRESHWATER CONDITIONS**

**Pre-Construction**

97) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

(a) Monitoring of freshwater ecology;

(b) Monitoring of freshwater and stream sediment quality;

(c) Trigger event criteria for undertaking additional monitoring;

(d) Procedures for responding to accidental discharges of contaminants to the freshwater environment; and

(e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.
**Monitoring**

98) F.2 The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;
(b) Macro invertebrate sampling; and
(c) Freshwater fish monitoring.

99) F.3 The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.
(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season and within one month either side of the end of the earthworks season.
(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse effects have occurred or are likely to occur from the Project.
(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.
(e) Four "event based" samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.
(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are to be analysed for metals (Zn, Cu and Pb), polycyclic aromatic hydrocarbons (PAH), hydrocarbons (TPH) and semi-volatile organic compounds.

Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

100) F.4 The NZTA shall undertake additional freshwater monitoring in the event of a 'trigger event' for freshwater habitats. For the purposes of this consent, a 'trigger event' for freshwater habitats is defined in the ECOMP.

101) F.5 The NZTA's ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.
**Reporting**

102) F.6 Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.
This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Use, Erection or Placement of New Structures (Sector 1):

Stormwater outfall structures in Sector 1 (Pixie Stream as a permanent stream or culvert, pipe or channel greater than 30m in length).

Lapse Period: 10 years

Code:

RC = Standard Resource Consent Conditions
CEMP = Construction Environmental Management Plan Conditions
PI = Public Information Conditions
TT = Temporary Traffic Conditions
OT = Operational Traffic Conditions
CNV = Noise and Vibration Conditions – Construction
LV = Landscape and Visual Conditions
V = Vegetation Conditions
ARCH = Archaeology Conditions
SW = Stormwater Conditions
STW = Streamworks Conditions
F = Freshwater Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise
of the consent and which it is appropriate to deal with at a later stage; or

(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

**Pre-Construction**

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation
buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1;

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:

(i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and

(ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team
Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) CEMP.2

The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;
(b) Training requirements for employees, sub-contractors and visitors;
(c) Environmental incident and emergency management;
(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);
(e) Environmental complaints management (including the procedures required under Condition PI.4);
(f) Compliance monitoring;
(g) Reporting (including detail on the frequency of reporting to the Auckland Council);
(h) Environmental auditing; and
(i) Corrective action.

12) CEMP.3

The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);
(b) Construction Air Quality Management Plan (CAQMP);
(c) Erosion and Sediment Control Plan (ESCP);
(d) Temporary Stormwater Management Plan (TSMP);
(e) Ecological Management Plan (ECOMP);
(f) Groundwater Management Plan (GWMP);
(g) Settlement Effects Management Plan (SEMP);
(h) Contaminated Soils Management Plan (CSMP);
(i) Hazardous Substances Management Plan (HSMP);
(j) Archaeological Site Management Plan (ASMP);
(k) Construction Traffic Management Plan (CTMP);
(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
(m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10); and
(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) CEMP.6

The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) Details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) The location of large notice boards that clearly identify the NZTA and the Project name,
together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks.
(including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

**Advice note:**

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

### Construction

18) **CEMP.4** The CEMP shall be implemented and maintained throughout the entire construction period.

19) **CEMP.5** A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

20) **CEMP.8** All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

21) **CEMP.9** Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

22) **CEMP.12** The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

   (a) Compliance with designation and consent conditions;

   (b) Any changes to construction methods;

   (c) Key changes to roles and responsibilities within the Project;

   (d) Changes in industry best practice standards;

   (e) Changes in legal or other requirements;

   (f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and

   (g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

23) **CEMP.13** Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.”
Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation/remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.

PUBLIC INFORMATION CONDITIONS

Pre-Construction

24) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

25) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will includes details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c) The database of stakeholders and residents who will be communicated with;

(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f) Any stakeholder specific communication plans required; and

(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

26) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:

(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)

(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:

(a) Auckland Council and Auckland Transport;

(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);

(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;

(d) Department of Conservation;

(e) Local Boards;

(f) Iwi groups with Mana Whenua;

(g) Public transport providers; and

(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

Construction

27) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and

(b) Any other construction activities, including night time works, blasting, and structure-bome noise, as identified in the conditions.

28) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;

(b) The NZTA shall maintain a record of all complaints made to this number, email or any site office, including the full details of the complainant and the nature of the complaint;
(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

29) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

30) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of construction of the Project on the affected road network;
(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

31) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

32) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

33) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.

34) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to,
as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.

**Construction**

35) TT.7 The NZTA shall undertake construction works so as to avoid significant long duration impacts or the full closure of Te Atatu Road for all road users heading to or from the Te Atatu Peninsula and to ensure that access for emergency service vehicles is maintained.

36) TT.8 The NZTA shall restrict construction truck movements during peak hours (6:00 to 9:00 and 16:00 to 19:00) on weekdays and during the peak periods at the weekends to avoid the following:

(a) Te Atatu Road Interchange, during both morning and afternoon peak hours
(b) Great North Road Interchange, city bound during the morning peak hours
(c) Great North Road Interchange, west bound onto SH16 and southbound onto Great North road during the afternoon peak.

Construction truck movements during these hours shall only be allowed under exceptional circumstances agreed in advance with the Traffic Management Project Governance Group.

37) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

38) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the *Temporary Traffic Assessment* (Technical Report G.16) submitted with this application.

(a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
(b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

39) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

**OPERATIONAL TRAFFIC CONDITIONS**

**Construction**

40) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great
North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the Great North Road Interchange.

(g) As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.

NOISE AND VIBRATION CONDITIONS - CONSTRUCTION

Pre-Construction

41) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;

(b) the vibration criteria set out in Condition CNV.4 below; or

(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);

(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;

(iii) Machinery and equipment to be used;

(iv) Vibration testing of equipment to confirm safe distances to buildings prior to
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;

(vi) Roles and responsibilities of personnel on site;

(vii) Construction operator training procedures;

(viii) Methods for monitoring and reporting on construction noise and vibration;

(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;

(x) Management schedules containing site specific information;

(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:
  
  - PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the commencement of works.
  
  - Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.
  
  - The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.
Construction

42) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public Holidays</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>

(b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB $L_{Aeq(T)}$</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB $L_{Aeq(T)}$</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Inside</th>
<th>All habitable rooms</th>
<th>Bedrooms</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB $L_{Aeq(T)}$ or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB $L_{Aeq (T)}$ or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>School hall, lecture theatres</td>
</tr>
</tbody>
</table>

Note: In Condition CNV2(d) “Teaching hours” means:

Primary schools and Kindergartens: 9am to 3pm
Unitec: 8am to 9pm

43) CNV.7 Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

44) CNV.13 SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).
LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

45) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:
(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

VEGETATION CONDITIONS

General

46) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

Pre-Construction

47) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:
(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and
(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

48) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

49) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

Construction
50) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

51) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

52) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

53) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

**Monitoring**

54) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

55) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:

   (a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

   (b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

   (c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

   (d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

**ARCHAEOLOGY CONDITIONS**

**Pre-Construction**

56) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:

   a) Identification of the Project archaeologist, their role and responsibility on the Project;

   b) Who reports to the Project archaeologist;

   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;

   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
57) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:
   (a) All unmodified areas in the vicinity of Rosebank Road;
   (b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;
   (c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   (d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

58) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

59) ARCH Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Construction

60) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:
   (a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
   (b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;
   (c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;
   (d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;
   (e) In the case of human remains, the NZ Police shall be notified.

STORMWATER CONDITIONS

Pre-Construction

61) SW.11 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to the start date of the works authorised by this resource consent.

62) SW.12 The NZTA shall submit the final design of the operational stormwater system to the Major Infrastructure Team Manager, Auckland Council for approval at least 20 working days prior to the commencement of construction works on the permanent stormwater system. The final design will incorporate the design philosophy contained in Technical Report G.27: Stormwater Design Philosophy Statement (including that it shall best practicably mimic the
existing hydrologic regime and setting, to deliver outcome objectives that remedy or mitigate adverse environmental effects, while also considering any measures to improve current flood issues in the catchment.

For certification purposes, these designs shall include, but not be limited to:

(a) Design calculations for the following:
   (i) flow attenuation devices,
   (ii) stormwater treatment device sizing,
   (iii) bypass device design,
   (iv) stormwater treatment device efficiency;
(b) Design drawings, including all structures, outfalls, treatment devices, bypass devices, wetlands and ponds;
(c) Planting plans and schedules for all stormwater treatment devices;
(d) Catchment plans detailing the area draining to each device; and
(e) Outfall locations.

63) SW.13 Any subsequent amendments to the final design of the operational stormwater system shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

64) SW.14 The NZTA shall arrange and conduct pre-construction site meetings between the Auckland Council and all relevant parties, including the site stormwater engineer, for the installation of each of the operational stormwater management works. The Council shall be provided with 5 working days written notice of the date and time of each pre-construction site meeting prior to construction of the permanent stormwater devices. Any resulting amendments to the design of the works may be reviewed at that time and shall be approved in accordance with Condition SW.12.

Construction

65) SW.20 Any stormwater outfalls authorised by this Consent shall incorporate energy dissipation and/or erosion protection measures to minimise the occurrence of bed scour and bank erosion. The design of stormwater outfalls shall assess various rainfall events and tailwater levels (stream and sea levels) to ensure the critical storm event is considered in the design.

Post-Construction / Operations

66) SW.15 Within 30 days of the practical completion of each part of the stormwater management system, "As Built" plans and documentation of the stormwater system which are certified as a true record of the stormwater management system by a suitably qualified Chartered Professional Engineer shall be supplied to the Major Infrastructure Team Manager, Auckland Council.

67) SW.16 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of installation of the stormwater management system an updated and final version of the Operational Stormwater Management Plan (OSMP) submitted with the application, to certify it meets the performance standards specified in Technical Report G.15. The purpose of the OSMP is to set out operation and maintenance requirements for the long term operation of stormwater systems implemented as part of the Project.

The OSMP shall include a monitoring programme for tunnel water quality to be agreed with the Major Infrastructure Team Manager, Auckland Council. The monitoring programme
shall have a duration of two years. The water quality report shall be submitted to the Major Infrastructure Team Manager, Auckland Council at the end of each year. The OSMP shall be updated at the end of the monitoring programme to revise procedures for the treatment and disposal of tunnel water.

The OSMP shall include, but not be limited to:

(a) A programme for regular maintenance and inspection of works;
(b) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices;
(c) A programme for inspection and maintenance of outfall erosion;
(d) A programme for post-storm maintenance;
(e) General inspection checklists for all aspects of the stormwater management system;
(f) Details of the person or bodies that will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process.

Any amendments to the OSMP shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

The NZTA shall arrange and conduct a post construction site meeting within 30 days of completion of installation of each part of the stormwater management works between the Auckland Council and all relevant parties, including the site stormwater engineer. The “As Built” plans and documentation required by condition SW.15 shall be made available at the site meeting.

The NZTA shall ensure that, for major overland flow paths in excess of the capacity of the primary systems, secondary flow paths shall be provided and maintained to allow surplus stormwater from critical storms, up to the 100-year ARI event, to discharge with the minimum of nuisance and damage.

Advice note: For the purposes of this consent "major overland flow paths" are those that accompany a primary drainage system of a nominal 600 mm diameter pipe or larger, or with peak overland flow exceeding 0.5 m³/s in the 100-year ARI event.

STREAMWORKS CONDITIONS

General

The realignments necessary for highway construction will be rehabilitated separately to the Project’s SEV off-set mitigation requirement of 343 metres. The Project’s SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer Schedule A, Row 23).

Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

Pre-Construction

Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring
Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

73) STW.3 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

74) STW.4 Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

75) STW.5 At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:
(a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;
(b) Construction erosion and sediment control plans (ESCP).

76) STW.6 The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:
(a) The commencement date and expected duration of the streamworks;
(b) The location of any works and structures in relation to the streamworks; and
(c) Dates for the implementation of erosion and sediment controls.

77) STW.16 The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

78) STW.20 The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be limited to, the following:
(a) The nature of works to be undertaken;
(b) The location of works;
(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication of the existing waterfall located on the Stoddard Road tributary near the confluence with Oakley Creek in a similar position within the new realignment;
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;
Timing of implementation;

The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and

How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:

(i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and

(ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss Fissidens berteroi.

Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).

The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” (Boffa Miskell, 2010) appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any amendment being implemented.

Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

Construction

The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 Assessment of Stormwater and Streamworks Effects and Technical Report G.22 Erosion and Sediment Control Plan, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

No streamworks shall be undertaken between 1 May and 30 September unless written approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.

All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 Erosion and Sediment Control Plan submitted with this application.

The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

All uncompacted material shall be kept clear of the channel during and after streamworks.
87) **STW.11** The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

88) **STW.12** The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

89) **STW.13** All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

90) **STW.14** The NZTA shall ensure that:
   (a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and
   (b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

91) **STW.26** All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

92) **STW.27** Works in the floodplain (including motorway embankments, ancillary earthworks and streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:
      (i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and
      (ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).
   (b) Technical Report G.15 Assessment of Stormwater and Streamworks Effects.

**Post-Construction / Operations**

93) **STW.23** The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

94) **STW.24** The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

95) **STW.28** Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council “as built” plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with Condition STW.27.

96) **STW.30** The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

**Monitoring**

97) **STW.15** The design engineer and Project ecologist shall monitor the construction of the
streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

FRESHWATER CONDITIONS

Pre-Construction

98) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

(a) Monitoring of freshwater ecology;
(b) Monitoring of freshwater and stream sediment quality;
(c) Trigger event criteria for undertaking additional monitoring;
(d) Procedures for responding to accidental discharges of contaminants to the freshwater environment; and
(e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.

Monitoring

99) F.2 The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;
(b) Macro invertebrate sampling; and
(c) Freshwater fish monitoring.

100) F.3 The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.
(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season and within one month either side of the end of the earthworks season.
(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse effects have occurred or are likely to occur from the Project.
(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.
(e) Four “event based” samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.
(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are
Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

101) F.4 The NZTA shall undertake additional freshwater monitoring in the event of a ‘trigger event’ for freshwater habitats. For the purposes of this consent, a ‘trigger event’ for freshwater habitats is defined in the ECOMP.

102) F.5 The NZTA’s ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.

**Reporting**

103) F.6 Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.
EPA 10/2.014 – (ARC: 38319)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Use, Erection or Placement of New Structures (Sector 7 and 9):
Stormwater outfall structures for Oakley Creek in Sectors 7 and 9.

Lapse Period: 10 years

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STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:
   (a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or
4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/ approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation buildings;
(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1;

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:
   (i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and
   (ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of
such the specific stage (including enabling) or site works.

11) **CEMP.2** The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;

(b) Training requirements for employees, sub-contractors and visitors;

(c) Environmental incident and emergency management;

(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition PI.2);

(e) Environmental complaints management (including the procedures required under Condition PI.4);

(f) Compliance monitoring;

(g) Reporting (including detail on the frequency of reporting to the Auckland Council);

(h) Environmental auditing; and

(i) Corrective action.

12) **CEMP.3** The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);

(b) Construction Air Quality Management Plan (CAQMP);

(c) Erosion and Sediment Control Plan (ESCP);

(d) Temporary Stormwater Management Plan (TSMP);

(e) Ecological Management Plan (ECOMP);

(f) Groundwater Management Plan (GWMP);

(g) Settlement Effects Management Plan (SEMP);

(h) Contaminated Soils Management Plan (CSMP);

(i) Hazardous Substances Management Plan (HSMP);

(j) Archaeological Site Management Plan (ASMP);

(k) Construction Traffic Management Plan (CTMP);

(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);

(m) Electrical Infrastructure Site Development and Construction Management Plan (EiSDCMP) (to be prepared in accordance with Condition CEMP.15);

(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10) ;

and

(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) **CEMP.6** The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or
(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and
telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

18) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

19) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

20) CEMP.8 All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

21) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

22) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:
   (a) Compliance with designation and consent conditions;
   (b) Any changes to construction methods;
   (c) Key changes to roles and responsibilities within the Project;
   (d) Changes in industry best practice standards;
   (e) Changes in legal or other requirements;
   (f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and
   (g) Public complaints.
   A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

23) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.’

Advice Note: Material change will include amendment to any base information informing
the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.

PUBLIC INFORMATION CONDITIONS

Pre-Construction

24) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

25) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will includes details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c) The database of stakeholders and residents who will be communicated with;

(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f) Any stakeholder specific communication plans required; and

(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

26) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:
(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:
(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

**Construction**

27) PI.3

At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and

(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

28) PI.4

The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;

(b) The NZTA shall maintain a record of all complaints made to this number, email or any
site office, including the full details of the complainant and the nature of the complaint;
(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;
(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, 'where necessary' refers to where the works are not being carried out in accordance with conditions of this designation;
(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and
(f) All information collected in Conditions P1.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

29) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):
(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);
(b) The Open Space Restoration Plans (as required by Condition OS.3);
(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);
(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);
(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);
(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and
(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.
Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.
(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

30) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.
In finalising the CTMP, the NZTA shall:
(a) Provide simulation modelling demonstrations to better understand the effects of
construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

31) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

32) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

33) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.
34) TT.6 The SSTMPs shall include measures developed in consultation with Auckland Transport to, as far as practicable, enable continued public walking and cycling passage along the existing Northwestern Cycleway (between Te Atatu Interchange and St Lukes Interchange) and along Great North Road and the public walkway along Oakley Creek, with any interruptions being as short as feasible.

Construction

35) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

36) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.

   (a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
   (b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

37) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

OPERATIONAL TRAFFIC CONDITIONS

Construction

38) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

   In addition, the NIP will address:
   (a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;
   (b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;
   (c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;
   (d) Integration of the works proposed on Te Atatu Road to appropriately transition between
(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the Great North Road Interchange.

(g) As part of detailed design at the Te Atatū Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.

**NOISE AND VIBRATION CONDITIONS - CONSTRUCTION**

**Pre-Construction**

39) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;

(b) the vibration criteria set out in Condition CNV.4 below; or

(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);

(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;

(iii) Machinery and equipment to be used;

(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;

(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;

(vi) Roles and responsibilities of personnel on site;

(vii) Construction operator training procedures;

(viii) Methods for monitoring and reporting on construction noise and vibration;

(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;

(x) Management schedules containing site specific information;

(xi) Measures for liasing with and notifying potentially affected receivers of
• PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the commencement of works.

• Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.

• The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.
Construction

40) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public Holidays</td>
<td>0630-0730</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>45</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>45</td>
</tr>
</tbody>
</table>

(b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

(c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB $L_{Aeq(T)}$</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB $L_{Aeq(T)}$</td>
</tr>
</tbody>
</table>
(d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB $L_{Aeq(T)}$ or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB $L_{Aeq(T)}$ or existing, whichever is the higher</td>
</tr>
<tr>
<td></td>
<td>School hall, lecture theatres</td>
</tr>
</tbody>
</table>

Note: In Condition CNV2(d) “Teaching hours” means:

Primary schools and Kindergartens: 9am to 3pm
Unitec: 8am to 9pm

41) CNV.7 Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

42) CNV.13 SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).
LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

43) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:
(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

VEGETATION CONDITIONS

General

44) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

Pre-Construction

45) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:
(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and
(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

46) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the duration of the works to monitor, supervise and direct all works affecting or otherwise in close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

47) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

48) V.12 Should the taxonomic and rarity status of the Geranium species growing alongside Oakley
Creek in Hendon Park and Alan Wood Reserve not be confirmed before the commencement of works in this area, then this species shall be treated as Significant Vegetation and shall either be:

(a) Protected in full or in part, and/or
(b) Where protection is not practicable, relocated to a suitable and safe habitat elsewhere; or
(c) Where protection or translocation are not practicable, this population shall be cleared in locations where required to allow works to proceed, but replaced with an equal extent of replacement plantings of the same species (from propagated material sourced from the existing population) planted at a safe and suitable habitat nearby in Hendon Park/Alan Wood Reserve.

49) V.13 Any clearance of the Geranium in accordance with Condition V.12 shall be restricted to the minimum necessary to facilitate the works.

Construction

50) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

51) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

52) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

53) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

Post-Construction / Operations

54) V.14 A rock forest restoration programme shall be undertaken by the NZTA on the northern banks of the Oakley Creek Inlet in accordance with the concepts of the ECOMP, Appendix H ‘Rock Forest Provisional Concept Plan’. A detailed planting plan shall be submitted to Auckland Council for approval, prior to implementation of the planting, with the plan to include planting specifications and management techniques. The detailed planting plan shall be integrated with cultural heritage values including, but not limited to, those shown on the plan entitled ‘Oakley Inlet Heritage Area’ (UDL Plan 224 refer Schedule A, Row 17).

Monitoring

55) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

56) V.9 The nominated botanist shall undertake a monitoring programme throughout the
construction period, including monitoring of:
(a) The condition, repair and location of the temporary protective fencing or other forms of
demarcation used to identify the Significant Vegetation;
(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;
(c) The general health of the Significant Vegetation and Valued Vegetation (including any
Significant or Valued Vegetation that has been relocated away from the works area); and
(d) Compliance with the vegetation conditions of designation by way of fortnightly
inspections during the construction period.

ARCHAEOLOGY CONDITIONS

Pre-Construction

57) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site
Management Plan (ASMP) submitted with the notice of requirement, to include, but not be
limited to:
   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and
manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required
for the specific site (the latter to be determined through consultation with the relevant
iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are
uncovered.

58) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist)
who shall be on site to monitor all initial earthworks, including surface stripping of the site,
for all specific areas identified in the ASMP to establish whether any sub-surface
archaeological features are present. This includes, but is not limited to, the following areas:
   a) All unmodified areas in the vicinity of Rosebank Road;
   b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the
      Great North Road Interchange;
   c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within
      Great North Road Interchange, and all previously unmodified areas near the banks of
      the Oakley Inlet;
   d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

59) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the
archaeological requirements set out in the ASMP.

60) ARCH.   Advice
Advice
Note
Any archaeological sites within the area affected by the Project shall not be modified or
disturbed in any way unless written authorisiation has been obtained from the NZ Historic
Places Trust.

Construction

61) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then
the following procedures shall apply:
(a) Immediately it becomes apparent that a possible archaeological or traditional site has
been exposed, all site works in the immediate vicinity shall cease;

(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;

(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;

(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;

(e) In the case of human remains, the NZ Police shall be notified.

STORMWATER CONDITIONS

Pre-Construction

62) SW.11 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to the start date of the works authorised by this resource consent.

63) SW.12 The NZTA shall submit the final design of the operational stormwater system to the Major Infrastructure Team Manager, Auckland Council for approval at least 20 working days prior to the commencement of construction works on the permanent stormwater system. The final design will incorporate the design philosophy contained in Technical Report G.27: Stormwater Design Philosophy Statement (including that it shall best practicably mimic the existing hydrologic regime and setting, to deliver outcome objectives that remedy or mitigate adverse environmental effects, while also considering any measures to improve current flood issues in the catchment.

For certification purposes, these designs shall include, but not be limited to:

(a) Design calculations for the following:
   (i) flow attenuation devices,
   (ii) stormwater treatment device sizing,
   (iii) bypass device design,
   (iv) stormwater treatment device efficiency;
(b) Design drawings, including all structures, outfalls, treatment devices, bypass devices, wetlands and ponds;
(c) Planting plans and schedules for all stormwater treatment devices;
(d) Catchment plans detailing the area draining to each device; and
(e) Outfall locations.

64) SW.13 Any subsequent amendments to the final design of the operational stormwater system shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

65) SW.14 The NZTA shall arrange and conduct pre-construction site meetings between the Auckland Council and all relevant parties, including the site stormwater engineer, for the installation of each of the operational stormwater management works. The Council shall be provided with 5 working days written notice of the date and time of each pre-construction site meeting prior to construction of the permanent stormwater devices. Any resulting amendments to the design of the works may be reviewed at that time and shall be approved in accordance with Condition SW.12.
Construction

66) SW.20 Any stormwater outfalls authorised by this Consent shall incorporate energy dissipation and/or erosion protection measures to minimise the occurrence of bed scour and bank erosion. The design of stormwater outfalls shall assess various rainfall events and tailwater levels (stream and sea levels) to ensure the critical storm event is considered in the design.

Post-Construction / Operations

67) SW.15 Within 30 days of the practical completion of each part of the stormwater management system, "As Built" plans and documentation of the stormwater system which are certified as a true record of the stormwater management system by a suitably qualified Chartered Professional Engineer shall be supplied to the Major Infrastructure Team Manager, Auckland Council.

68) SW.16 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of installation of the stormwater management system an updated and final version of the Operational Stormwater Management Plan (OSMP) submitted with the application, to certify it meets the performance standards specified in Technical Report G.15. The purpose of the OSMP is to set out operation and maintenance requirements for the long term operation of stormwater systems implemented as part of the Project.

The OSMP shall include a monitoring programme for tunnel water quality to be agreed with the Major Infrastructure Team Manager, Auckland Council. The monitoring programme shall have a duration of two years. The water quality report shall be submitted to the Major Infrastructure Team Manager, Auckland Council at the end of each year. The OSMP shall be updated at the end of the monitoring programme to revise procedures for the treatment and disposal of tunnel water.

The OSMP shall include, but not be limited to:
(a) A programme for regular maintenance and inspection of works;
(b) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices;
(c) A programme for inspection and maintenance of outfall erosion;
(d) A programme for post-storm maintenance;
(e) General inspection checklists for all aspects of the stormwater management system;
(f) Details of the person or bodies that will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process.

69) SW.17 Any amendments to the OSMP shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

70) SW.18 The NZTA shall arrange and conduct a post construction site meeting within 30 days of completion of installation of each part of the stormwater management works between the Auckland Council and all relevant parties, including the site stormwater engineer. The "As Built" plans and documentation required by condition SW.15 shall be made available at the site meeting.
71) SW.19 The NZTA shall ensure that, for major overland flow paths in excess of the capacity of the primary systems, secondary flow paths shall be provided and maintained to allow surplus stormwater from critical storms, up to the 100-year ARI event, to discharge with the minimum of nuisance and damage.

Advice note: For the purposes of this consent "major overland flow paths" are those that accompany a primary drainage system of a nominal 600 mm diameter pipe or larger, or with peak overland flow exceeding 0.5 m³/s in the 100-year ARI event.

STREAMWORKS CONDITIONS

General

72) STW.21 The realignments necessary for highway construction will be rehabilitated separately to the Project's SEV off-set mitigation requirement of 343 metres. The Project's SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer Schedule A, Row 23).

Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

Pre-Construction

73) STW.2 Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

74) STW.3 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

75) STW.4 Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

76) STW.5 At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:
   (a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;
   (b) Construction erosion and sediment control plans (ESCP).

77) STW.6 The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:
   (a) The commencement date and expected duration of the streamworks;
   (b) The location of any works and structures in relation to the streamworks; and
(c) Dates for the implementation of erosion and sediment controls.

78) STW.16 The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

79) STW.20 The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be limited to, the following:

(a) The nature of works to be undertaken;
(b) The location of works;
(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication of the existing waterfall located on the Stoddard Road tributary near the confluence with Oakley Creek in a similar position within the new realignment;
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;
(e) Timing of implementation;
(f) The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and

(g) How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:

(i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and
(ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss *Fissidens berteroi*.

Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).

80) STW.22 The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” (Boffa Miskell, 2010) appended to *Technical Report G.6 Assessment of Freshwater Ecological Effects*.

81) STW.25 Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any
amendment being implemented.

82) STW.29 Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

**Construction**

83) STW.1 The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 Assessment of Stormwater and Streamworks Effects and Technical Report G.22 Erosion and Sediment Control Plan, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

84) STW.7 No streamworks shall be undertaken between 1 May and 30 September unless written approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.

85) STW.8 All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 Erosion and Sediment Control Plan submitted with this application.

86) STW.9 The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

87) STW.10 All uncompacted material shall be kept clear of the channel during and after streamworks.

88) STW.11 The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

89) STW.12 The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

90) STW.13 All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

91) STW.14 The NZTA shall ensure that:

(a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and

(b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

92) STW.26 All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

93) STW.27 Works in the floodplain (including motorway embankments, ancillary earthworks and streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:

   (i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and
   (ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).

(b) Technical Report G.15 Assessment of Stormwater and Streamworks Effects.

**Post-Construction / Operations**

94) STW.23 The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

95) STW.24 The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

96) STW.28 Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council “as built” plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with Condition STW.27.

97) STW.30 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

**Monitoring**

98) STW.15 The design engineer and Project ecologist shall monitor the construction of the streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

**FRESHWATER CONDITIONS**

**Pre-Construction**

99) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

   (a) Monitoring of freshwater ecology;
   (b) Monitoring of freshwater and stream sediment quality;
   (c) Trigger event criteria for undertaking additional monitoring;
   (d) Procedures for responding to accidental discharges of contaminants to the freshwater environment; and
   (e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.
100) F.2 The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;
(b) Macro invertebrate sampling; and
(c) Freshwater fish monitoring.

101) F.3 The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.
(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season and within one month either side of the end of the earthworks season.
(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse effects have occurred or are likely to occur from the Project.
(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.
(e) Four “event based” samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.
(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are to be analysed for metals (Zn, Cu and Pb), polycyclic aromatic hydrocarbons (PAH), hydrocarbons (TPH) and semi-volatile organic compounds.

Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

102) F.4 The NZTA shall undertake additional freshwater monitoring in the event of a ‘trigger event’ for freshwater habitats. For the purposes of this consent, a ‘trigger event’ for freshwater habitats is defined in the ECOMP.

103) F.5 The NZTAs ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.
**Reporting**

104) **F.6** Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.
EPA 10/2.015 – (ARC: 38320)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Use, Erection or Placement of New Structures (Sector 6):

Stormwater outfall structures for Meola Creek in Sector 6.

Lapse Period: 10 years

Code:

RC = Standard Resource Consent Conditions
CEMP = Construction Environmental Management Plan Conditions
LV = Landscape and Visual Conditions
V = Vegetation Conditions
PI = Public Information Conditions
ARCH = Archaeology Conditions
TT = Temporary Traffic Conditions
SW = Stormwater Conditions
OT = Operational Traffic Conditions
STW = Streamworks Conditions
CNV = Noise and Vibration Conditions – Construction
F = Freshwater Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:

(a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or

(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.
4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree. The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party’s right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:

(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment detailing the amended location of the ventilation stacks and southern ventilation buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks
and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:

(i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and

(ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.
11) **CEMP.2** The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;
(b) Training requirements for employees, sub-contractors and visitors;
(c) Environmental incident and emergency management;
(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition P1.2);
(e) Environmental complaints management (including the procedures required under Condition P1.4);
(f) Compliance monitoring;
(g) Reporting (including detail on the frequency of reporting to the Auckland Council);
(h) Environmental auditing; and
(i) Corrective action.

12) **CEMP.3** The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);
(b) Construction Air Quality Management Plan (CAQMP);
(c) Erosion and Sediment Control Plan (ESCP);
(d) Temporary Stormwater Management Plan (TSMP);
(e) Ecological Management Plan (ECOMP);
(f) Groundwater Management Plan (GWMP);
(g) Settlement Effects Management Plan (SEMP);
(h) Contaminated Soils Management Plan (CSMP);
(i) Hazardous Substances Management Plan (HSMP);
(j) Archaeological Site Management Plan (ASMP);
(k) Construction Traffic Management Plan (CTMP);
(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
(m) Electrical Infrastructure Site Development and Construction Management Plan (EISD CMP) (to be prepared in accordance with Condition CEMP.15);
(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10);

and

(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) **CEMP.6** The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) Details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;
(a) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(b) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(c) 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 building materials and similar construction activities;

(d) Location of worker’s offices and conveniences (e.g. portaloos);

(e) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(f) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/ security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop
methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

18) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

19) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

20) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

21) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

(a) Compliance with designation and consent conditions;
(b) Any changes to construction methods;
(c) Key changes to roles and responsibilities within the Project;
(d) Changes in industry best practice standards;
(e) Changes in legal or other requirements;
(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and
(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

22) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the proposed changes taking effect.”

Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a
particular value. For clarity changes to personnel and contact schedules do not constitute a material change.

PUBLIC INFORMATION CONDITIONS

Pre-Construction

23) PI.1 A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

24) PI.2 The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will include details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c) The database of stakeholders and residents who will be communicated with;

(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f) Any stakeholder specific communication plans required; and

(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

25) PI.5 The NZTA shall establish Community Liaison Group(s) at least two months prior to
construction commencing in each of the following key construction areas:

(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:

(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

Construction

26) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP 6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

27) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;
(b) The NZTA shall maintain a record of all complaints made to this number, email or any site office, including the full details of the complainant and the nature of the complaint;

(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

28) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(n) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

   Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

29) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:
(a) Provide simulation modelling demonstrations to better understand the effects of
construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and
pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular
vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall
be taken into account in the planning of any closures or restrictions.

30) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans
(SSTMPs) and their approval by the Traffic Management Project Governance Group (as
defined by the CTMP), for each construction activity that may affect traffic or transportation
infrastructure and services. The SSTMPs shall be provided to the Traffic Management
Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to
each construction activity.

31) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or
mitigate the local and network wide effects of construction of the Project. In particular, the
SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus
services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and
peak traffic periods at weekends (including Te Atatu Road, Great North Road and
Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement
to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate
effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic
management measures that will result, including any temporary restrictions, detours or
diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the
construction of individual elements of the project (e.g. intersections/overbridges) and
the use of staging to allow sections of the Project to be opened to the traffic while other
sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and
machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular
times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the
existing property access is to be removed or becomes unsafe as a result of the
construction works, measures to provide alternative access arrangements in
consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained
on all roads and footpaths adjacent to the construction works, where practicable (e.g.
unless provision of such access is severed by the works or such access will become
unsafe as a result of the construction works). Such access shall be safe, clearly
identifiable, provide permanent surfacing and seek to minimise significant detours.
(This Condition does not act as a qualification to the commitment to maintain access to
open space and education facilities, as required in Condition OS.13).

32) TT.4 The SSTMPs shall include traffic management measures developed in consultation with
the Auckland Transport, Bus and Coach Association and the Auckland Council, to address
and maintain, where practicable, existing levels of service for buses particularly at peak
periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.

**Construction**

33) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

34) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the *Temporary Traffic Assessment* (Technical Report G.16) submitted with this application.
   (a) This monitoring will be undertaken on a daily, weekly and monthly basis; and
   (b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

35) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

**OPERATIONAL TRAFFIC CONDITIONS**

**Construction**

36) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

(a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans *Great North Road Option 1 Proposed Road Marking* (Schedule A, Row 33), subject to the agreement with Auckland Transport;

(b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

(c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

(d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

(e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to
(f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the Great North Road Interchange.

(g) As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.

NOISE AND VIBRATION CONDITIONS - CONSTRUCTION

Pre-Construction

37) CNV.1 The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;
(b) the vibration criteria set out in Condition CNV.4 below; or
(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);
(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;
(iii) Machinery and equipment to be used;
(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;
(vi) Roles and responsibilities of personnel on site;
(vii) Construction operator training procedures;
(viii) Methods for monitoring and reporting on construction noise and vibration;
(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;
(x) Management schedules containing site specific information;
(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:
   • PPFs located within a horizontal distance of 35 metres of underground
• Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.

• The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.

Construction

38) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Sectors 1 to 7</td>
<td>Sectors 8 and 9</td>
</tr>
<tr>
<td>LAeq(T)</td>
<td>LAeq(T)</td>
<td>LAfmax</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
</tbody>
</table>
### (b) Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

### (c) Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>$35 \text{ dB } L_{Aeq(T)}$ All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>$30 \text{ dB } L_{Aeq(T)}$ Bedrooms</td>
</tr>
</tbody>
</table>

### (d) Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>$45 \text{ dB } L_{Aeq(T)}$ or existing, whichever is the higher Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>$40 \text{ dB } L_{Aeq(T)}$ or existing, whichever is the higher School hall, lecture theatres</td>
</tr>
</tbody>
</table>

**Note:** In Condition CNV2(d) “Teaching hours” means:

- Primary schools and Kindergartens: 9am to 3pm
- Unitec: 8am to 9pm

39) **CNV.7** Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

40) **CNV.13** SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major
Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).

LANDSCAPE AND VISUAL CONDITIONS

Pre-Construction

41) LV.1 The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/ designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);
(b) Remove the playing field at Waterview Reserve;
(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);
(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

VEGETATION CONDITIONS

General

42) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

Pre-Construction

43) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP shall clearly identify the location and identity of:

(a) All Significant Vegetation within the designation that is to be fully protected or relocated; and
(b) All Valued Vegetation within the designation that is affected by the works (protected or removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

44) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the duration of the works to monitor, supervise and direct all works affecting or otherwise in
close proximity to the Significant Vegetation and Valued Vegetation identified in the ECOMP.

45) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all vegetation in general (both native and exotic) are explained by the nominated botanist to all contractors or sub-contractors who will be working on site within the close vicinity of that vegetation.

**Construction**

46) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be cleared, with the exception of weeds (both woody and otherwise, unless agreed with the Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group that the retention of these ‘weeds’ has other environmental or ecological benefits that warrant their retention). All vegetation clearance shall be undertaken in accordance with the measures set out in the ECOMP.

47) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the Significant Vegetation identified in the ECOMP as requiring full protection, under the supervision of the nominated botanist.

48) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

49) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

**Monitoring**

50) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

51) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:

(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

**ARCHAEOLOGY CONDITIONS**

**Pre-Construction**
52) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:
   a) Identification of the Project archaeologist, their role and responsibility on the Project;
   b) Who reports to the Project archaeologist;
   c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;
   d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and
   e) Accidental discovery protocols in the event that unknown archaeological sites are uncovered.

53) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:
   a) All unmodified areas in the vicinity of Rosebank Road;
   b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;
   c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
   d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

54) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

55) ARCH. Advice
    Note
    Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Construction

56) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:
   a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
   b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;
   c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;
   d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;
   e) In the case of human remains, the NZ Police shall be notified.

STORMWATER CONDITIONS
Pre-Construction

57) SW.11 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to the start date of the works authorised by this resource consent.

58) SW.12 The NZTA shall submit the final design of the operational stormwater system to the Major Infrastructure Team Manager, Auckland Council for approval at least 20 working days prior to the commencement of construction works on the permanent stormwater system. The final design will incorporate the design philosophy contained in Technical Report G.27: Stormwater Design Philosophy Statement (including that it shall best practicably mimic the existing hydrologic regime and setting, to deliver outcome objectives that remedy or mitigate adverse environmental effects, while also considering any measures to improve current flood issues in the catchment.

For certification purposes, these designs shall include, but not be limited to:
(a) Design calculations for the following:
   (i) flow attenuation devices,
   (ii) stormwater treatment device sizing,
   (iii) bypass device design,
   (iv) stormwater treatment device efficiency;
(b) Design drawings, including all structures, outfalls, treatment devices, bypass devices, wetlands and ponds;
(c) Planting plans and schedules for all stormwater treatment devices;
(d) Catchment plans detailing the area draining to each device; and
(e) Outfall locations.

59) SW.13 Any subsequent amendments to the final design of the operational stormwater system shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

60) SW.14 The NZTA shall arrange and conduct pre-construction site meetings between the Auckland Council and all relevant parties, including the site stormwater engineer, for the installation of each of the operational stormwater management works. The Council shall be provided with 5 working days written notice of the date and time of each pre-construction site meeting prior to construction of the permanent stormwater devices. Any resulting amendments to the design of the works may be reviewed at that time and shall be approved in accordance with Condition SW.12.

Construction

61) SW.20 Any stormwater outfalls authorised by this Consent shall incorporate energy dissipation and/or erosion protection measures to minimise the occurrence of bed scour and bank erosion. The design of stormwater outfalls shall assess various rainfall events and tailwater levels (stream and sea levels) to ensure the critical storm event is considered in the design.

Post-Construction / Operations

62) SW.15 Within 30 days of the practical completion of each part of the stormwater management system, "As Built" plans and documentation of the stormwater system which are certified as a true record of the stormwater management system by a suitably qualified Chartered Professional Engineer shall be supplied to the Major Infrastructure Team Manager,
Auckland Council.

63) SW.16 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of installation of the stormwater management system an updated and final version of the Operational Stormwater Management Plan (OSMP) submitted with the application, to certify it meets the performance standards specified in Technical Report G.15. The purpose of the OSMP is to set out operation and maintenance requirements for the long term operation of stormwater systems implemented as part of the Project.

The OSMP shall include a monitoring programme for tunnel water quality to be agreed with the Major Infrastructure Team Manager, Auckland Council. The monitoring programme shall have a duration of two years. The water quality report shall be submitted to the Major Infrastructure Team Manager, Auckland Council at the end of each year. The OSMP shall be updated at the end of the monitoring programme to revise procedures for the treatment and disposal of tunnel water.

The OSMP shall include, but not be limited to:

(a) A programme for regular maintenance and inspection of works;
(b) A programme for the collection and disposal of debris and sediment collected by the stormwater management devices or practices;
(c) A programme for inspection and maintenance of outfall erosion;
(d) A programme for post-storm maintenance;
(e) General inspection checklists for all aspects of the stormwater management system;
(f) Details of the person or bodies that will hold responsibility for long-term maintenance of the stormwater management system and the organisational structure which will support this process.

64) SW.17 Any amendments to the OSMP shall be submitted for approval in writing by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to implementation.

65) SW.18 The NZTA shall arrange and conduct a post construction site meeting within 30 days of completion of installation of each part of the stormwater management works between the Auckland Council and all relevant parties, including the site stormwater engineer. The "As Built" plans and documentation required by condition SW.15 shall be made available at the site meeting.

66) SW.19 The NZTA shall ensure that, for major overland flow paths in excess of the capacity of the primary systems, secondary flow paths shall be provided and maintained to allow surplus stormwater from critical storms, up to the 100-year ARI event, to discharge with the minimum of nuisance and damage.

Advice note: For the purposes of this consent "major overland flow paths" are those that accompany a primary drainage system of a nominal 600 mm diameter pipe or larger, or with peak overland flow exceeding 0.5 m³/s in the 100-year ARI event.

STREAMWORKS CONDITIONS

General

67) STW.21 The realignments necessary for highway construction will be rehabilitated separately to the Project’s SEV off-set mitigation requirement of 343 metres. The Project’s SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer
Schedule A, Row 23).

Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

Pre-Construction

68) STW.2 Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

69) STW.3 The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

70) STW.4 Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

71) STW.5 At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:

(a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;

(b) Construction erosion and sediment control plans (ESCP).

72) STW.6 The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:

(a) The commencement date and expected duration of the streamworks;

(b) The location of any works and structures in relation to the streamworks; and

(c) Dates for the implementation of erosion and sediment controls.

73) STW.16 The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

74) STW.20 The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be limited to, the following:

(a) The nature of works to be undertaken;
(b) The location of works;
(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication of the existing waterfall located on the Stoddard Road tributary near the confluence with Oakley Creek in a similar position within the new realignment;
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;
(e) Timing of implementation;
(f) The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and
(g) How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:
   (i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and
   (ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss *Fissidens berteroi*.

*Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).*

75) **STW.22** The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” (Boffa Miskell, 2010) appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

76) **STW.25** Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any amendment being implemented.

77) **STW.29** Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

**Construction**

78) **STW.1** The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 Assessment of Stormwater and Streamworks Effects and Technical Report G.22 Erosion and Sediment Control Plan, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

79) **STW.7** No streamworks shall be undertaken between 1 May and 30 September unless written
approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.

80) STW.8 All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 Erosion and Sediment Control Plan submitted with this application.

81) STW.9 The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

82) STW.10 All uncompacted material shall be kept clear of the channel during and after streamworks.

83) STW.11 The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

84) STW.12 The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

85) STW.13 All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

86) STW.14 The NZTA shall ensure that:
   (a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and
   (b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

87) STW.26 All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

88) STW.27 Works in the floodplain (including motorway embankments, ancillary earthworks and streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:
      (i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and
      (ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).
   (b) Technical Report G.15 Assessment of Stormwater and Streamworks Effects.

Post-Construction / Operations

89) STW.23 The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

90) STW.24 The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

91) STW.28 Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council “as built” plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with
Condition STW.27.

92) STW.30 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

Monitoring

93) STW.15 The design engineer and Project ecologist shall monitor the construction of the streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

FRESHWATER CONDITIONS

Pre-Construction

94) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

(a) Monitoring of freshwater ecology;
(b) Monitoring of freshwater and stream sediment quality;
(c) Trigger event criteria for undertaking additional monitoring;
(d) Procedures for responding to accidental discharges of contaminants to the freshwater environment; and
(e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.

Monitoring

95) F.2 The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;
(b) Macro invertebrate sampling; and
(c) Freshwater fish monitoring.

96) F.3 The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.
(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season
and within one month either side of the end of the earthworks season.

(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse effects have occurred or are likely to occur from the Project.

(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.

(e) Four “event based” samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.

(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are to be analysed for metals (Zn, Cu and Pb), polycyclic aromatic hydrocarbons (PAH), hydrocarbons (TPH) and semi-volatile organic compounds.

Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

97) F.4 The NZTA shall undertake additional freshwater monitoring in the event of a ‘trigger event’ for freshwater habitats. For the purposes of this consent, a ‘trigger event’ for freshwater habitats is defined in the ECOMP.

98) F.5 The NZTA’s ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.

Reporting

99) F.6 Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.
EPA 10/2.016 – (ARC: 38321)

This document has been prepared in compliance with conditions of the “Final Report and Decision of the Board of Inquiry into the New Zealand Transport Agency Waterview Connection Proposal, Volume 2, Conditions of Consent”. Schedule B of Volume 2 identifies the Conditions relevant to this Consent by the code and number as referenced throughout this document. In the event of dispute, Schedule B of Volume 2 shall take precedence over this Consent.

Type: Land Use

Description: Disturbance of Bed of Lakes and Rivers (Sector 9):

Excavation, drilling or tunnelling or other disturbance in, on, or under the bed of a permanent river or stream and any associated discharge of sediment, for the purpose of diverting a permanent river or stream to a new course, and the associated infilling of the existing bed and the diversion of water on Oakley Creek and unnamed tributary of Oakley Creek.

Lapse Period: 10 years

Code:

RC = Standard Resource Consent Conditions
CEMP = Construction Environmental Management Plan Conditions
PI = Public Information Conditions
TT = Temporary Traffic Conditions
OT = Operational Traffic Conditions
CNV = Noise and Vibration Conditions – Construction
LV = Landscape and Visual Conditions
V = Vegetation Conditions
ARCH = Archaeology Conditions
STW = Streamworks Conditions
F = Freshwater Conditions

STANDARD RESOURCE CONSENT CONDITIONS

General

1) RC.1 Except as modified by the conditions below, the works shall be undertaken in general accordance with the information provided by the New Zealand Transport Agency (NZTA), in the resource consent applications and the supporting documents (as detailed in Condition DC.1), and in the supplementary information provided in evidence by the NZTA.

2) RC.1A The NZTA shall implement the conditions of these consents in accordance with Schedule B, which sets out the Conditions that are to be applied to each consent including the duration of each consent.

3) RC.2 The Conditions of these consents may be reviewed by the Major Infrastructure Team Manager, Auckland Council, pursuant to Section 128 of the Resource Management Act 1991 (the Act), by the giving of notice pursuant to Section 129 of the Act, on the one year anniversary of the commencement of the consents and every year thereafter in order:
(a) To deal with any adverse effect on the environment which may arise from the exercise of the consent and which it is appropriate to deal with at a later stage; or
(b) To deal with any other adverse effect on the environment on which the exercise of the consent may have an influence.

4) RC.4 Any Management Plans submitted to the Major Infrastructure Team Manager, Auckland Council for approval or certification may be submitted in stages to reflect any proposed staging of the physical works. Plans submitted shall clearly show the integration with adjacent stages and interrelated activities.

5) RC.5 In the event of any dispute, disagreement or inaction arising as to any Auckland Council Manager certification/ approvals required by the consent conditions, or as to the implementation of or monitoring required by the conditions, matters shall be referred in the first instance to the NZTA Regional State Highway Manager and to the Resource Consents Manager, Auckland Council to determine a process of resolution.

If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified expert, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.

The independent appropriately qualified expert shall be appointed within 10 working days of the NZTA or Auckland Council giving notice of their intention to seek expert determination. The expert shall, as soon as possible, issue his or her decision on the matter. In making the decision, the expert shall be entitled to seek further information and hear from the parties as he or she sees fit.

Advice note: The dispute resolution process provided for in this condition does not prejudice any party's right to take enforcement action in relation to the implementation of the designation conditions. However, the dispute resolution process will be applied before any formal enforcement action is taken by the Council except in urgent situations.

6) RC.6 Pursuant to Section 36(1)(d) of the RMA, the requiring authority is required to pay to Auckland Council any administrative charge for the carrying out by the local authority of its functions in relation to the administration, monitoring, and supervision of designation conditions.

7) RC.7 The servants of agents of Auckland Council shall be permitted to have access to relevant parts of the Project at all reasonable times for the purpose of carrying out inspections, investigations, tests, measurements and/or to take samples.

Pre-Construction

8) RC.3 Within 3 months of the resource consents commencing for the Project (or at least 1 month prior to any Auckland Council approvals or certifications required by these Conditions, whichever is the earlier), the NZTA shall update and finalise to the satisfaction of the Major Infrastructure Team Manager, Auckland Council all drawings and Plans cited in Schedule A, together with a full set of the information and documentation referred to in Condition DC.1 and provide these to the Major Infrastructure Team Manager, Auckland Council. At the same time the NZTA shall prepare to the satisfaction of Auckland Council, a document for each resource consent which sets out the resource consent and have attached to it in text format a comprehensive set of the conditions imposed by the Board of Inquiry in its Final Decision as summarised in Schedule B, inclusive of any standard conditions and advice notes.

In particular (but not limited to), the following Plans will need to be amended in light of the Final Conditions:
(a) F.2 Operational Scheme Plans (refer Schedule A, Row 3) require amendment
detailing the amended location of the ventilation stacks and southern ventilation buildings;

(b) F.5 Construction Scheme Plans (refer Schedule A, Row 4) require amendment to detail changes to construction footprint for the amended location of ventilation stacks and southern ventilation buildings and reconfiguration of Construction Yard 1);

(c) F.6 Construction Yard Plans 101 and 107 (refer Schedule A, Row 7), detailing amendments to the Construction Yard 1 in light of the reconfiguration of this Yard and for Construction Yard 7 in light of the relocation of the northern ventilation stack (refer Schedule A, Row 34);

(d) F.8 Plans of Structures and Architectural Features (refer Schedule A, Row 9), detailing the amended location of the Northern Ventilation Stack and the design and location of the Southern Ventilation Building and Stack;

(e) The CNVMP (including flow diagram and the supplementary evidence produced by Ms Wilkening) (refer Schedule A, Rows 36, 37 and 39);

(f) Update to the areas of the Open Space Restoration Plans (Schedule A, Row 30) to:

(i) Extend these areas in geographic extent to provide for the works identified in the Management Plan notations identified in the OS Conditions (in particular OS.5 and OS.6). (e.g. these areas will (as relevant) include Eric Armishaw Park, Howlett Reserve and Waterview Esplanade Reserve); and

(ii) Exclude the operational area of designation required for the northern ventilation stack (as identified through the OPW process (refer Condition DC.8); and

(g) Schedule A, Row 28 the Plan detailing proposed open space impacts and replacements needs to be updated to recolour the two land parcels on Hendon Avenue (which are excluded from the replacement calculations) to ‘brown’ to confirm they are part of the operational impact and will not be returned as open space.

CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN CONDITIONS

Pre-Construction

9) CEMP.1 Except where provided for in Condition CEMP.1A below, the NZTA shall update and finalise the draft Construction Environmental Management Plan (CEMP) including all the Management Plans which form part of the CEMP and are included as appendices, submitted with this application to ensure compliance with the consent and designation conditions imposed by the Board of Inquiry. The CEMP shall be provided to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to the commencement of works to certify compliance and consistency with the conditions. Construction shall not commence until certification is obtained.

Advice note: For clarity the CEMP will be updated and finalised in accordance with the conditions. Any amendments will be limited to reflecting the requirements of the conditions, specifying personnel, and completing the Environmental Risk Register.

Advice Note: Particular care must be taken with development and operation of Construction Yard 7. When the CEMP is being updated and finalised, consideration must be given to the contents of the draft SSCEMP prepared for Construction Yard 7 (Row 41, Schedule A) recognising changes required by inclusion of the ventilation stack in this yard.

10) CEMP.1B For the purposes of staging works, as some works may commence well in advance of others, the NZTA may provide staged or site specific CEMPs for those works to the Major Infrastructure Team Manager, Auckland Council. The NZTA shall consult with the Team Manager about the need and timing for any other site-specific or staged CEMPs and shall
provide any required site-specific or staged CEMPs to the Major Infrastructure Team Manager, Auckland Council for review at least 20 working days prior to commencement of such the specific stage (including enabling) or site works.

11) CEMP.2 The certification process of the CEMP (and its appendices) shall confirm that the CEMP gives effect to the relevant conditions, as well as those matters in CEMP.6, and that it includes details of:

(a) Staff and contractors’ responsibilities;
(b) Training requirements for employees, sub-contractors and visitors;
(c) Environmental incident and emergency management;
(d) Communication and interface procedures (in accordance with the Communication Plan required under Condition Pl.2);
(e) Environmental complaints management (including the procedures required under Condition Pl.4);
(f) Compliance monitoring;
(g) Reporting (including detail on the frequency of reporting to the Auckland Council);
(h) Environmental auditing; and
(i) Corrective action.

12) CEMP.3 The management of key environmental effects associated with the construction phase of the Project is detailed within environmental management plans that are included in the CEMP as appendices. This suite of management plans as shown on Figure CEMP.A comprises:

(a) Construction Noise and Vibration Management Plan (CNVMP);
(b) Construction Air Quality Management Plan (CAQMP);
(c) Erosion and Sediment Control Plan (ESCP);
(d) Temporary Stormwater Management Plan (TSMP);
(e) Ecological Management Plan (ECOMP);
(f) Groundwater Management Plan (GWMP);
(g) Settlement Effects Management Plan (SEMP);
(h) Contaminated Soils Management Plan (CSMP);
(i) Hazardous Substances Management Plan (HSMP);
(j) Archaeological Site Management Plan (ASMP);
(k) Construction Traffic Management Plan (CTMP);
(l) Concrete Batching and Crushing Plant Management Plan (CBCPMP);
(m) Electrical Infrastructure Site Development and Construction Management Plan (EISDCMP) (to be prepared in accordance with Condition CEMP.15);
(n) Waste Management Plan (to be prepared in accordance with Condition CEMP.10);
(o) Temporary Construction Lighting Management Plan (to be prepared in accordance with Condition L.2).

13) CEMP.6 The finalised CEMP shall include specific details on demolition, construction and management of all works associated with the Project. The certification process of the CEMP shall confirm that the CEMP includes details of the following:

(a) Details of the site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);
(b) The location of large notice boards that clearly identify the NZTA and the Project name, together with the name, telephone, email address and address for service of the site or Project manager and the community liaison person;

(c) An outline construction programme of the work indicating in particular likely time periods for road closures and anticipated traffic diversion effects;

(d) The hours of work, which should reflect the need to ensure that residents enjoy reasonable freedom from noisy or intrusive construction activity in their neighbourhood at night, on Sundays and during public holidays;

(e) 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 building materials and similar construction activities;

(f) Location of worker’s offices and conveniences (e.g. portaloos);

(g) Procedures of controlling sediment run-off, dust and the removal of soil, debris and demolition and construction materials from public roads or places. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days;

(h) Methods to stabilise ingress and egress points to construction sites, to the standard required by ARC Technical Publication 90 (Nov 2007);

14) CEMP.7 The layout of the 12 Construction Yards, including associated buildings, fencing and site access shall be developed in accordance with Waterview Connection Project Construction Yards Plans (Refer Schedule A, Row 7). The layout drawings shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the occupation of the yard, for review and certification that the final layout of the construction yards is in accordance with the conditions. The layout drawings shall incorporate the following:

(a) The main access to the construction yards to be located as far as practicable from residential dwellings, taking into account site and public safety and environmental constraints, in the locations shown on Waterview Connection Project Construction Yards Drawings (Refer Schedule A, Row 7);

(b) Noisy construction activities to be located as far as practicable, and preferably no less than 100m, from residential dwellings; Construction of temporary boundary/security fences to be undertaken in a manner which minimises impacts on existing trees;

(c) Temporary acoustic fences and visual barriers;

(d) Temporary buildings greater than 8 metres in height to be located in a position which minimises visual impact on adjacent residential dwellings; and

(e) Location of workers’ and Project vehicle parking.

15) CEMP.10 The NZTA shall finalise and implement the Hazardous Substances Management Plan (HSMP), through the CEMP (as per Condition CEMP.1), submitted with this application, prior to works commencing on site. The certification process of the CEMP shall confirm that the HSMP clearly identifies the requirements for proper storage, handling, transport and disposal of hazardous substances during the construction phase of the Project and confirm that there shall be no storage of explosives on the Project site.

16) CEMP.11 The NZTA shall develop and implement a Waste Management Plan in accordance with the waste management principles, controls and methods set out in the CEMP. The Plan shall be provided to the Major Infrastructure Team Manager, Auckland Council and be implemented throughout the entire construction period.

17) CEMP.15 The NZTA will be responsible for all service relocations required for construction of the
Project. The NZTA shall liaise with the providers of infrastructure service networks (including, but not limited to water, gas, stormwater, wastewater, power and telecommunications), and private property owners with on-site services to develop methodologies and timing for necessary services relocation required for the Project, with the objective of minimising disruption to the operation of these service networks and on-site services.

Advice note:

(a) It is noted that if separate consents are required for relocations for any services of network utility operators or landowners, such consents will be obtained before construction commences in the relevant area, and any effects of those relocations would be considered at that time. The same applies to any alteration of consents if required.

(b) Network infrastructure owned and operated by Watercare Services is located within the designations. An operating agreement will be developed by the NZTA and Watercare Services which will include appropriate notification and access protocols where works are to be undertaken by either network operator on or adjacent to Watercare Services infrastructure within the designations.

Construction

18) CEMP.4 The CEMP shall be implemented and maintained throughout the entire construction period.

19) CEMP.5 A copy of the CEMP shall be held on each construction site at all times and be available for inspection on request by the Auckland Council.

20) CEMP.8 All storage of material and equipment associated with the construction works shall take place within the boundaries of the designation.

21) CEMP.9 Temporary protection shall be installed to prevent vehicles damaging drains, footpaths, berms, kerbs, vehicle crossings and the roads during the site preparation and construction phase of the Project. Any damage to the drains, footpaths, berms, kerbs, vehicle crossings and the road attributable to any vehicle associated with construction activities shall be repaired to the same or similar standards as existed prior to such damage at no cost to the Auckland Council.

22) CEMP.12 The CEMP shall be reviewed by the NZTA at least annually or as a result of a material change to the Project. The review shall take into consideration:

(a) Compliance with designation and consent conditions;

(b) Any changes to construction methods;

(c) Key changes to roles and responsibilities within the Project;

(d) Changes in industry best practice standards;

(e) Changes in legal or other requirements;

(f) Results of inspections, monitoring, incidents, corrective actions, internal or external assessments; and

(g) Public complaints.

A summary of the review process undertaken shall be kept by the NZTA, provided annually to the Major Infrastructure Team Manager, Auckland Council and made available (with any related data) to the Auckland Council upon request.

23) CEMP.13 Following the review process (as described in Condition CEMP.12), the CEMP may require updating. Any material change proposed to the CEMP (including appended Management Plans) shall be submitted for approval to the Major Infrastructure Team Manager, Auckland
Council at least 10 working days prior to the proposed changes taking effect.’

*Advice Note: Material change will include amendment to any base information informing the CEMP or any process, procedure or method of the CEMP (such as the environmental constraints map, compliance monitoring process, complaints procedure or mitigation / remedial methods identified) which has the potential to increase adverse effects on a particular value. For clarity changes to personnel and contact schedules do not constitute a material change.*

**PUBLIC INFORMATION CONDITIONS**

*Pre-Construction*

24) **PI.1** A community liaison person shall be appointed by the NZTA for the duration of the construction phase of the Project to be the main and readily accessible point of contact for persons affected by the Project. The liaison person’s name and contact details shall be made available in the CEMP and on site signage by the NZTA. This person must be reasonably available for on-going consultation on all matters of concern to affected parties arising from the Project.

25) **PI.2** The NZTA shall prepare and implement a Communications Plan that sets out procedures detailing how the public, Ministry of Social Development, Housing New Zealand Corporation and other organisations representing the particular demographic characteristics of the community (including but not limited to Primary Health Organisations, general practitioners, youth, education organisations, aged care groups and groups representing ethnic and migrant communities) will be communicated with throughout the construction and monitoring periods (as prescribed in the designation and consent conditions).

In preparing the Communications Plan, the NZTA will liaise with Auckland Council to access its community liaison databases. The Communications Plan will includes details of:

(a) The site or Project manager and the community liaison person, including their contact details (phone, facsimile, postal address, email address);

(b) In accordance with these Conditions, the database of the key construction activities and monitoring requirements that are the subject of the Communications Plan;

(c) The database of stakeholders and residents who will be communicated with;

(d) Communication methods, an assessment of how these methods reach the different audience/stakeholder groups (including those methods set out in Condition CEMP.6), and detail on when each of these methods will be used (e.g. regular communication or event specific methods);

(e) The appointed specialist in Environmental and Occupational Medicine, including contact details (as per Condition SO.13);

(f) Any stakeholder specific communication plans required; and

(g) Monitoring and review procedures for the Communications Plan.

The Communications Plan shall be written in accordance with the external communication procedures set out in the CEMP and provided at least 20 working days prior to construction commencing, to the Major Infrastructure Team Manager, Auckland Council, Working Liaison Group and the Community Liaison Group(s) established by Condition PI.5. The structure of the communication groups set out in these conditions is attached as Figure PI.A.

26) **PI.5** The NZTA shall establish Community Liaison Group(s) at least two months prior to construction commencing in each of the following key construction areas:
(a) Te Atatu (including the SH16 Causeway)
(b) Waterview (including works to St Lukes on SH16 and on the Waterview Estuary and Causeway Bridges)
(c) Owairaka

and hold regular meetings (at least three monthly) throughout the construction period and up to 24 months following construction completion relevant to these areas (or less if the members of the Group agree), so that on-going monitoring information can continue to be disseminated.

The Community Liaison Group(s) shall be open to all interested parties within the Project area including, but not limited to the following groups:

(a) Auckland Council and Auckland Transport;
(b) Educational facilities within the Project area (including schools, kindergartens, childcare facilities and Unitec Institute of Technology);
(c) Relevant community/ environmental groups (including but not limited to Friends of Oakley Creek, Star Mills Preservation Group, Cycle Action Auckland and representatives from those organisations identified in the Communications Plan (as required by Condition PI.2) and local residents;
(d) Department of Conservation;
(e) Local Boards;
(f) Iwi groups with Mana Whenua;
(g) Public transport providers; and
(h) Housing New Zealand Corporation.

Advice note: The purpose of the Community Liaison Group(s) is to provide a regular forum through which information about the Project can be provided to the community, and an opportunity for concerns or issues to be raised.

**Construction**

27) PI.3 At least 15 working days prior to the commencement of construction, and at 15 working day intervals thereafter, or as required depending on the scale of works and effects on the community, advertisements will be placed in the relevant local newspapers and community noticeboards (as identified in Condition CEMP.6(b)) detailing the nature of the forthcoming works, the location of the forthcoming works and hours of operation. All advertisements will include reference to a 24 hour toll free complaints telephone number. Where relevant, advertisements will also include but not be limited to details of:

(a) Any traffic disruptions or controls or changes to property access, pedestrian/ cycle routes and bus stops; and
(b) Any other construction activities, including night time works, blasting, and structure-borne noise, as identified in the conditions.

28) PI.4 The NZTA shall manage, investigate and resolve (as appropriate) all complaints for the duration of the construction works in accordance with the environmental complaints section of the CEMP. The implementation strategy for complaints includes:

(a) A 24 hour toll free telephone number and email address, which shall be provided to all potentially affected residents and businesses. The number shall be available and answered at all times during the entire duration of the works for the receipt and management of any complaints. A sign containing the contact details shall be located at each site specific work activity;
(b) The NZTA shall maintain a record of all complaints made to this number, email or any
site office, including the full details of the complainant and the nature of the complaint;

(c) Upon receiving a complaint, within 10 days of complaint receipt, a formal written response will be provided to the complainant and Auckland Council;

(d) The NZTA shall undertake corrective action where necessary to resolve any problem identified. All action taken and relevant information shall be documented. For the avoidance of doubt, ‘where necessary’ refers to where the works are not being carried out in accordance with conditions of this designation;

(e) Where issues and complaints about effects cannot be resolved through the CEMP complaints management process, a meeting shall be held between the NZTA, the complainant and the Auckland Council representative(s) to discuss the complaint and ways in which the issue may be resolved. If parties cannot agree on a resolution, an independent qualified mediator will be appointed, agreeable to all parties and at the shared cost of all parties, to undertake mediation of the dispute or concerns; and

(f) All information collected in Conditions PI.4 (b), (c) and (d) shall be detailed in a Construction Compliance Report (including the means by which the complaint was addressed, whether resolution was reached and how the response was carried out) prepared by the NZTA. This Report shall be submitted to the Major Infrastructure Team Manager, Auckland Council on a quarterly basis commencing at the beginning of the works and for the entire duration of construction.

29) PI.6 The Community Liaison Group(s) shall be provided opportunities to review and comment on the following (amongst other things):

(a) The Outline Plan of Works detailing designs for the northern and southern ventilation buildings and stacks (the outcomes of this consultation will be reported in accordance with the processes required in DC.8(m) and DC.9(k);

(b) The Open Space Restoration Plans (as required by Condition OS.3);

(c) Finalisation and amendment to Urban Design and Landscape Plans (UDL Plans) (as required by Condition LV.1);

(d) The Oakley Inlet Heritage Plan (as required by Conditions OS.5(b)(i) and ARCH.6);

(e) The detail of the Oakley Creek restoration (as required by Condition STW.20);

(f) Publicly available results of environmental monitoring as required by the designation and/or these Consents (e.g. air quality monitoring); and

(g) The finalisation of the STEM assessment required by CEMP.6(o) and a schedule of trees that are required to be removed for consideration of timber use in heritage projects as required by Condition SO.7.

Advice Note: Attention is drawn to the Vegetation conditions concerning identification and protection of Significant Vegetation and Valued Vegetation.

(h) Detailed design features of the Te Atatu underpass (e.g. lighting and architectural treatment).

TEMPORARY TRAFFIC CONDITIONS

Pre-Construction

30) TT.1 The NZTA shall update and finalise the Construction Traffic Management Plan (CTMP) submitted with this application, in accordance with these conditions, and implement it through the CEMP.

In finalising the CTMP, the NZTA shall:

(a) Provide simulation modelling demonstrations to better understand the effects of
construction of the Project on the affected road network;

(b) Include measures to avoid road closures and restrictions of vehicle, bus, cycle and pedestrian movements;

(c) Where road closures or restrictions cannot reasonably be avoided the particular vulnerabilities and sensitivities of pedestrian diversions and restricted conditions shall be taken into account in the planning of any closures or restrictions.

31) TT.2 The CTMP shall require the development of Site Specific Traffic Management Plans (SSTMPs) and their approval by the Traffic Management Project Governance Group (as defined by the CTMP), for each construction activity that may affect traffic or transportation infrastructure and services. The SSTMPs shall be provided to the Traffic Management Coordinator(s) for the relevant Road Controlling Authority at least 10 working days prior to each construction activity.

32) TT.3 Each SSTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide effects of construction of the Project. In particular, the SSTMP shall include the following matters:

(a) Traffic management measures to address and maintain, traffic capacity, including bus services, at peak traffic periods during weekdays (6:00 to 9:00 and 16:00 to 19:00) and peak traffic periods at weekends (including Te Atatu Road, Great North Road and Richardson Road);

(b) Methods to manage the effects of traffic during construction including the requirement to detour or divert traffic. These methods shall seek to avoid, remedy or mitigate effects on access to and from businesses and other organisations in the area;

(c) Any road closures that will be required and the nature and duration of any traffic management measures that will result, including any temporary restrictions, detours or diversions for general traffic and buses;

(d) Methods to avoid, remedy or mitigate the local and network wide effects of the construction of individual elements of the project (e.g. intersections/overbridges) and the use of staging to allow sections of the Project to be opened to the traffic while other sections are still under construction;

(e) Methods to manage the effects of the delivery of construction material, plant and machinery (including cranes and oversized trucks) during construction;

(f) Any routes where construction traffic movements will be restricted (either for particular times for construction periods);

(g) Measures to maintain existing vehicle access, as far as practicable, or where the existing property access is to be removed or becomes unsafe as a result of the construction works, measures to provide alternative access arrangements in consultation with the Auckland Council and the affected landowner; and

(h) Measures to maintain pedestrian and cycle access with thoroughfare to be maintained on all roads and footpaths adjacent to the construction works, where practicable (e.g. unless provision of such access is severed by the works or such access will become unsafe as a result of the construction works). Such access shall be safe, clearly identifiable, provide permanent surfacing and seek to minimise significant detours. (This Condition does not act as a qualification to the commitment to maintain access to open space and education facilities, as required in Condition OS.13).

33) TT.4 The SSTMPs shall include traffic management measures developed in consultation with the Auckland Transport, Bus and Coach Association and the Auckland Council, to address and maintain, where practicable, existing levels of service for buses particularly at peak periods (6:00 to 9:00 and 16:00 to 19:00) on weekdays.
**Construction**

34) TT.9 The NZTA shall maintain at least the existing active traffic lane configuration capacity on SH16, at the Te Atatu Interchange area, Te Atatu Road, Richardson Road and on Great North Road during peak periods being 6:00 to 9:00 and 16:00 to 19:00 on weekdays and during the peak periods on weekends, for the duration of the temporary construction programme.

35) TT.10 The NZTA shall monitor the impact of construction traffic in terms of traffic speeds and volumes on SH16, Great North Road, Te Atatu Road and Richardson Road throughout the construction period to confirm the expected traffic effects as set out in the Temporary Traffic Assessment (Technical Report G.16) submitted with this application.

   (a) This monitoring will be undertaken on a daily, weekly and monthly basis; and

   (b) Monitoring results will be made available to the Traffic Operations Manager, Auckland Transport on request.

36) TT.11 If monitoring undertaken pursuant to Condition TT.10 indicates that traffic volumes or traffic conditions are significantly different from those expected, the SSTMPs will be reviewed and as appropriate amended to the satisfaction of the Traffic Management Project Governance Group.

**OPERATIONAL TRAFFIC CONDITIONS**

**Construction**

37) OT.1 The NZTA shall prepare in collaboration with Auckland Transport a Network Integration Plan (NIP) for the Project, or relevant Project phases, to demonstrate how the Project integrates with the existing local road network and with future improvements (identified in the Western Ring Route (Northwest) Network Plan) planned by the Auckland Council. The NIP shall include details of proposed physical works at the interface between the State highway and the local road network, and shall address such matters as pedestrian/ cycle ways, lane configuration, traffic signal co-ordination, signage and provision for buses.

In addition, the NIP will address:

   (a) The commitment of the NZTA to progress bus priority measures northbound on Great North Road as part of the reinstatement of Great North Road, as proposed by Auckland Transport and indicated on the Plans Great North Road Option 1 Proposed Road Marking (Schedule A, Row 33), subject to the agreement with Auckland Transport;

   (b) How the works committed to by the NZTA for pedestrian and cycle ways, as detailed in the PT and Active Mode Transport Routes Plan Set (Condition DC.1(d) (refer Schedule A, Row 22)), integrate with pedestrian and cycle ways on the wider transport network;

   (c) The Richardson Road Bridge, which shall be designed in general accordance with the structural plans (Schedule A, Row 9) and the commitment of the NZTA to provide a 2m footpath on Richardson Road Bridge, subject to confirming appropriate bus stop locations with Auckland Transport;

   (d) Integration of the works proposed on Te Atatu Road to appropriately transition between the Waterview Connection Project and any projects being progressed by Auckland Transport;

   (e) Opportunities to review traffic signal timings at the Te Atatu Interchange with a view to minimising delays to all users, including cyclists on the SH16 cycle way; and

   (f) The commitment of the NZTA to provide for cycle “aspects” (cycle signal lights) at the
As part of detailed design at the Te Atatu Interchange, the installation of underpasses and/or overbridges, provided however that should same not prove feasible in civil or traffic engineering design terms, the installation of coordinated traffic signal operation for cyclists on the north-western cycleway by means of synchronised cycle lights which seek to reduce delays for cyclists.

Works identified in the NIP which are the responsibility of the NZTA, will be undertaken as at the time of construction works for the Project.

NOISE AND VIBRATION CONDITIONS - CONSTRUCTION

Pre-Construction

38) CNV.1  The NZTA shall finalise and implement through the CEMP, a Construction Noise and Vibration Management Plan (CNVMP) throughout the entire construction period of the Project.

The CNVMP shall describe the measures adopted to meet:

(a) the noise criteria set out in Conditions CNV.2 and 3 below;
(b) the vibration criteria set out in Condition CNV.4 below; or
(c) where (a) or (b) cannot be met, the process that will be followed to appropriately mitigate noise and vibration effects including methods that may be applied outside the designation.

The CNVMP shall be provided to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to construction activities being undertaken for review and certification that the CNVMP, as a minimum, addresses the following:

(i) Construction noise and vibration criteria (Conditions CNV.2, CNV.3, and CNV.4);
(ii) Hours of operation, including times and days when noisy and/or vibration inducing construction activities would occur;
(iii) Machinery and equipment to be used;
(iv) Vibration testing of equipment to confirm safe distances to buildings prior to construction;
(v) Preparation of building condition surveys of critical dwellings prior to, during and after completion of construction works;
(vi) Roles and responsibilities of personnel on site;
(vii) Construction operator training procedures;
(viii) Methods for monitoring and reporting on construction noise and vibration;
(ix) A hierarchy of mitigation options that will be assessed for the Project noise mitigation, including alternative strategies where full compliance with the relevant noise and/or vibration criteria cannot be achieved;
(x) Management schedules containing site specific information;
(xi) Measures for liaising with and notifying potentially affected receivers of proposed construction activities and the potential for noise and vibration effects, specifically:

- PPFs located within a horizontal distance of 35 metres of underground excavation works, along the tunnel alignment shall receive prior notification not greater than 7 days (and not less than 24 hours) prior to the
• Methods for ensuring residents affected by night works (within 100m of the construction site night works, as defined on the maps (refer Schedule A, Row 35) are notified of such works (i.e. any works during the hours of 20:00 to 06:30) at least 5 days prior to the commencement of any such work.

• The maps showing PPFs to be notified of night works (refer Schedule A, Row 35, shall be reviewed and included within the CNVMP.

(xii) Methods for receiving and handling complaints about construction noise and vibration;

(xiii) Measures for preventing the occurrence of rogue fly rock, including management of charge weights and face loading procedures, stemming of charge holes and profiling of the face to maintain minimum burden (face cover);

(xiv) Investigations on the practicability of implementing permanent noise mitigation works for construction mitigation (as per Condition CNV.7);

(xv) Investigations of the practicability of implementing Building Modification mitigation, as required in accordance with Conditions ON.6 and ON.11, prior to commencement of construction within 100m of the relevant PPFs (including those on the Unitec site); and

(xvi) The process for developing Site Specific Noise Management Plans (SSNMP), in accordance with the SSNMP Flow Chart (refer Schedule A, Row 36), including templates and a certification process for the Major Infrastructure Team Manager, Auckland Council (in accordance with Condition CNV.13) to confirm the process of SSNMP review of noise mitigation options where, the modelled/predicted levels or subsequent actual levels exceed the criteria in Conditions CNV.2 and/or CNV.4.

**Construction**

39) CNV.2 Except where certified by the Council through the SSNMP (in accordance with Condition CNV.13), construction noise (excluding noise from blasting Monday to Saturday inclusive) shall be measured and assessed in accordance with NZS 6803:1999 “Acoustics - Construction Noise” and shall comply with the following criteria:

Note: In Condition CNV.2 (T) means a duration between 15 minutes and 60 minutes, in accordance with NZS6803:1999.

(a) Project Construction Noise Criteria: Residential Receivers

<table>
<thead>
<tr>
<th>Time of week</th>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Sectors 1 to 7</td>
</tr>
<tr>
<td></td>
<td></td>
<td>( L_{\text{Aeq(T)}} )</td>
</tr>
<tr>
<td>Monday - Saturday</td>
<td>0630-0730</td>
<td>60</td>
</tr>
<tr>
<td></td>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td></td>
<td>1800-2000</td>
<td>65</td>
</tr>
<tr>
<td></td>
<td>2000-0630</td>
<td>60</td>
</tr>
<tr>
<td>Sundays and Public</td>
<td>0630-0730</td>
<td>45</td>
</tr>
</tbody>
</table>
### Project Construction Noise Criteria: Commercial and Industrial Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria (Long Term Construction) dB</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$L_{Aeq(T)}$</td>
</tr>
<tr>
<td>0730-1800</td>
<td>70</td>
</tr>
<tr>
<td>1800-0730</td>
<td>75</td>
</tr>
</tbody>
</table>

### Project Construction Noise Criteria: Internal Structure-borne Noise from tunnelling for Residential Receivers

<table>
<thead>
<tr>
<th>Time period</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>0600-2200</td>
<td>35 dB $L_{Aeq(T)}$ All habitable rooms</td>
</tr>
<tr>
<td>2200-0600</td>
<td>30 dB $L_{Aeq(T)}$ Bedrooms</td>
</tr>
</tbody>
</table>

### Project Construction Noise Criteria: Internal noise for Licensed Educational Facilities

<table>
<thead>
<tr>
<th>Time period (School Days)</th>
<th>Project Construction Noise Criteria Inside</th>
</tr>
</thead>
<tbody>
<tr>
<td>Teaching Hours</td>
<td>45 dB $L_{Aeq(T)}$ Or existing, whichever is the higher Classrooms, library, offices, teaching, laboratories, manual arts, workshops</td>
</tr>
<tr>
<td>Teaching Hours</td>
<td>40 dB $L_{Aeq(T)}$ Or existing, whichever is the higher School hall, lecture theatres</td>
</tr>
</tbody>
</table>

*Note: In Condition CNV2(d) “Teaching hours” means:*

- Primary schools and Kindergartens: 9am to 3pm
- Unitec: 8am to 9pm

40) **CNV.7** Where practicable, permanent (traffic) noise barriers, required in any Sector as Detailed Mitigation Options for operational noise following completion of the Project (in accordance with Conditions ON.3 to ON.5) shall be erected prior to noise generating construction works commencing. Where this is not practicable, temporary noise mitigation measures shall be implemented in accordance with the CNVMP, prior to noise generating construction works commencing.

41) **CNV.11** For all other properties, if noise and vibration monitoring of the tunnelling works for the Project (in accordance with Condition CNV.1), indicates that the noise or vibration criteria of Conditions CNV.2 or CNV.4 will potentially be exceeded, then the process set out in the CNVMP will be undertaken including Site Specific Noise Management Plans. Where
relocation for residents is proposed, notification of such relocation with residents and property owners will be undertaken in accordance with the processes contained in the CNVMP.

42) **CNV.13** SSNMPs (required by Condition CNV.1(xvi)) above, shall be submitted to Major Infrastructure Team Manager, Auckland Council for review and certification at least 7 working days prior to the proposed works commencing. A decision will be provided by the Council within 5 working days of receipt of the SSNMP.

Works will not commence until certification is received from the Major Infrastructure Team Manager, Auckland Council. The Council may, at its discretion, waive the requirement for SSNMPs to be submitted to the Council where an SSNMP is required.

If monitoring shows that levels specified in a SSNMP are being exceeded, work generating the exceedance will stop and not recommence until further mitigation is implemented in accordance with an amended SSNMP certified by Council.

*Advice note: It is accepted that the criteria of CNV.2 and CNV.4 may not be met at all times, but that the NZTA will take all practical steps to achieve compliance, taking into account the hierarchy of mitigation options outlined in Condition CNV.1 (ix).*

**LANDSCAPE AND VISUAL CONDITIONS**

*Pre-Construction*

43) **LV.1** The Urban Design and Landscape Plans (UDL Plans) (Plan Set F.16, refer Schedule A, Row 17) shall be reviewed and revised in accordance with the conditions and submitted to the Major Infrastructure Team Manager, Auckland Council for certification that they comply with the conditions of the consents/designation prior to construction of the relevant Project stage, at least 20 working days prior to the commencement of construction.

The UDL Plans shall be updated to:

(a) Reflect relevant details from the PT and Active Mode Transport Routes Plan Set (Schedule A, Row 23);

(b) Remove the playing field at Waterview Reserve;

(c) Confirm the reconfigured bund design at Alwyn Avenue (Schedule A, Row 42);

(d) Reflect landscaping required in relation to the northern vent stack in Waterview Glades pursuant to Conditions DC.8.

44) **LV.2** In certifying the UDL Plans, prepared in accordance with Condition LV.1, the Major Infrastructure Team Manager, Auckland Council shall be satisfied the UDL plans includes:

(a) The visual mitigation of infrastructure as detailed in Section B of the UDLF (refer Schedule A, Row 38).

(b) Incorporation of art or art through design of structures, particularly as it relates to noise barriers and the Great North Road Interchange piers and ramps (Refer to clauses (g) and (i) below).

(c) Planting to screen houses and noise walls (including cross section details);

(d) Planting along the corridor on Traherne Island, in accordance with these conditions and the Ecological Management Plan;

(e) Specimen planting on the Great North Road Interchange and the Te Atatu Road Interchange;

(f) Specimen planting at the tunnel portals (except where this is within the OPW area);

(g) Finalisation of the noise barriers (as required by Condition ON.3(a)) in accordance with
(h) Delineation of the final areas of the Open Space Restoration Plans in accordance with the Open Space Restoration Plans (Schedule A, Row 30), and reference that all works within the Open Space Restoration Plan Areas are subject to Conditions OS.1 to OS.8;

(i) Oakley Inlet Heritage Plan, prepared in accordance with Conditions OS.5, and in particular, consideration shall be given to the design treatment of the Great North Road Interchange piers and ramps to take into consideration the impact of the structures on the visual quality of the open space beneath;

(j) Ecological Management Plan, prepared in accordance with Conditions V.1, A.1, H.1, F.1 and M.1;

(k) Western Ring Route: Maioro Street Interchange and Waterview Connection - Oakley Creek Rehabilitation and Restoration Guidelines (Boffa Miskell, 2010); and

(l) Details of artworks or art through design of structures within the Project (e.g. design detailing of median barriers, bridge railings, safety barriers, piers, retaining walls and tunnel portals), in accordance with Section B of the Urban Landscape and Design Framework (UDLF June 2010) (refer Schedule A, Row 38) and F.8: Plans of Structures and Architectural Features, but excluding the north and south ventilation buildings, plans sections and elevations.

45) LV.8 The NZTA shall ensure that any areas within the designation affected by construction activities have sub-soil rehabilitated and top-soil replaced so that the hydrological response including the volume of stormwater runoff generated is as close as practicable to the predevelopment situation. The methodologies to achieve this shall be documented and provided to the Major Infrastructure Team Manager, Auckland Council with the revised ULD Plans submitted pursuant to Condition LV.1.

Post-Construction / Operations

46) LV.3 The NZTA shall have implemented the UDL Plans within 6 months of practical completion of construction of the Project.

47) LV.4 The landscaping shall be implemented in accordance with the UDL Plans within the first planting season following the completion of the construction works, provided that climatic conditions are suitable, otherwise at the first practicable opportunity thereafter, and shall be maintained for a period of 10 years thereafter. Should the landscaping be implemented in stages (depending on construction phases), landscaping shall be implemented in accordance with this Condition for each stage unless subsequent construction staging requires use of the proposed landscaping area.

Advice note: On-going control and management of the landscaping within the designation is the responsibility of the NZTA.

48) LV.5 The NZTA shall implement the UDL Plans taking into account the pest plant management guidelines detailed in the Ecological Management Plan (as required by Condition CEMP.3).

VEGETATION CONDITIONS

General

49) V.10 Any planting utilising native plants shall use plants genetically sourced from the Tamaki Ecological District where possible or otherwise shall use plants that have been genetically sourced from within the Auckland Ecological Region.

50) V.16 All realignments and riparian enhancements of Oakley Creek shall be carried out in
accordance with the Oakley Creek Realignment and Rehabilitation Guidelines and in
general accordance with the Urban Design and Landscape plans (Refer Schedule A, Row 17).

Pre-Construction

51) V.1 The NZTA shall finalise the ECOMP submitted with this application, prior to works
commencing on site. The ECOMP shall be implemented through the CEMP. The ECOMP
shall clearly identify the location and identity of:
(a) All Significant Vegetation within the designation that is to be fully protected or
relocated; and
(b) All Valued Vegetation within the designation that is affected by the works (protected or
removed).

Note: Significant and Valued Vegetation shall be as defined in the ECOMP.

52) V.2 The NZTA shall employ a suitably experienced botanist ('nominated botanist') for the
duration of the works to monitor, supervise and direct all works affecting or otherwise in
close proximity to the Significant Vegetation and Valued Vegetation identified in the
ECOMP.

53) V.3 Prior to any site works commencing, a pre-commencement site meeting shall be held so
that the conditions that pertain to the Significant Vegetation and Valued Vegetation and all
vegetation in general (both native and exotic) are explained by the nominated botanist to all
contractors or sub-contractors who will be working on site within the close vicinity of that
vegetation.

54) V.12 Should the taxonomic and rarity status of the Geranium species growing alongside Oakley
Creek in Hendon Park and Alan Wood Reserve not be confirmed before the
commencement of works in this area, then this species shall be treated as Significant
Vegetation and shall either be:
(a) Protected in full or in part, and/or
(b) Where protection is not practicable, relocated to a suitable and safe habitat elsewhere;
or
(c) Where protection or translocation are not practicable, this population shall be cleared
in locations where required to allow works to proceed, but replaced with an equal
extent of replacement plantings of the same species (from propagated material
sourced from the existing population) planted at a safe and suitable habitat nearby in
Hendon Park/Alan Wood Reserve.

55) V.13 Any clearance of the Geranium in accordance with Condition V.12 shall be restricted to the
minimum necessary to facilitate the works.

Construction

56) V.4 The NZTA shall minimise the amount of vegetation (both native and exotic) which is to be
cleared, with the exception of weeds (both woody and otherwise, unless agreed with the
Major Infrastructure Team Manager, Auckland Council and the Community Liaison Group
that the retention of these ‘weeds’ has other environmental or ecological benefits that
warrant their retention). All vegetation clearance shall be undertaken in accordance with
the measures set out in the ECOMP.

57) V.5 The NZTA shall install protective fencing around, or otherwise clearly demarcate, all of the
Significant Vegetation identified in the ECOMP as requiring full protection, under the
supervision of the nominated botanist.
58) V.6 The NZTA shall replace any terrestrial Valued Vegetation that is required to be removed as a result of construction activities, in accordance with the ECOMP and the Urban Design and Landscape Plans.

59) V.7 The nominated botanist shall supervise all trimming, pruning and relocation work associated with the Significant Vegetation and Valued Vegetation required as part of the works.

**Post-Construction / Operations**

60) V.14 A rock forest restoration programme shall be undertaken by the NZTA on the northern banks of the Oakley Creek Inlet in accordance with the concepts of the ECOMP, Appendix H ‘Rock Forest Provisional Concept Plan’. A detailed planting plan shall be submitted to Auckland Council for approval, prior to implementation of the planting, with the plan to include planting specifications and management techniques. The detailed planting plan shall be integrated with cultural heritage values including, but not limited to, those shown on the plan entitled ‘Oakley Inlet Heritage Area’ (UDL Plan 224 refer Schedule A, Row 17).

**Monitoring**

61) V.8 Immediately prior to planting, and for a period of 2 years following completion of construction, the NZTA shall undertake weed control and management of all invasive plant pests within the vegetated areas of the surface designation for the Project. Following this 2 year period, on-going control and management of all invasive plant pests within these areas will be the responsibility of the NZTA.

62) V.9 The nominated botanist shall undertake a monitoring programme throughout the construction period, including monitoring of:

(a) The condition, repair and location of the temporary protective fencing or other forms of demarcation used to identify the Significant Vegetation;

(b) Any works within the vicinity of the Significant Vegetation and Valued Vegetation;

(c) The general health of the Significant Vegetation and Valued Vegetation (including any Significant or Valued Vegetation that has been relocated away from the works area); and

(d) Compliance with the vegetation conditions of designation by way of fortnightly inspections during the construction period.

**ARCHAEOLOGY CONDITIONS**

**Pre-Construction**

63) ARCH.1 The NZTA shall complete, and implement through the CEMP, the Archaeological Site Management Plan (ASMP) submitted with the notice of requirement, to include, but not be limited to:

a) Identification of the Project archaeologist, their role and responsibility on the Project;

b) Who reports to the Project archaeologist;

c) Specific sites requiring supervision, and measures to be undertaken to protect and manage these sites;

d) Whether NZHPT and/or Auckland Council heritage and/or iwi supervision is required for the specific site (the latter to be determined through consultation with the relevant iwi groups); and

e) Accidental discovery protocols in the event that unknown archaeological sites are
64) ARCH.2 The NZTA shall employ at its expense a qualified archaeologist (the Project archaeologist) who shall be on site to monitor all initial earthworks, including surface stripping of the site, for all specific areas identified in the ASMP to establish whether any sub-surface archaeological features are present. This includes, but is not limited to, the following areas:

(a) All unmodified areas in the vicinity of Rosebank Road;
(b) All works in the vicinity of the “Oakley Inlet Heritage Area”, located adjacent to the Great North Road Interchange;
(c) Works in the vicinity of two midden sites (recorded R11/2214 and R11/2215) within Great North Road Interchange, and all previously unmodified areas near the banks of the Oakley Inlet;
(d) Any ground disturbance works in Construction Yard 7 within Oakley Creek Reserve.

65) ARCH.8 All contractors and subcontractors working on the Project shall be trained on the archaeological requirements set out in the ASMP.

66) ARCH. Advice Note
Any archaeological sites within the area affected by the Project shall not be modified or disturbed in any way unless written authorisation has been obtained from the NZ Historic Places Trust.

Construction

67) ARCH.3 If any archaeological sites, including human remains are exposed during site works, then the following procedures shall apply:

(a) Immediately it becomes apparent that a possible archaeological or traditional site has been exposed, all site works in the immediate vicinity shall cease;
(b) The site supervisor shall immediately secure the area in a way that ensures that any artefacts or remains are untouched and notify the Project archaeologist;
(c) The Project archaeologist shall inspect the site to assess the relevance of the find, and then the Auckland Council shall be advised of the significance;
(d) If the site is confirmed to be an archaeological site by the Project archaeologist, the site supervisor shall then notify tangata whenua, the New Zealand Historic Places Trust, and the Auckland Council that an archaeological site has been exposed so that appropriate action can be taken;
(e) In the case of human remains, the NZ Police shall be notified.

STREAMWORKS CONDITIONS

General

68) STW.21 The realignments necessary for highway construction will be rehabilitated separately to the Project’s SEV off-set mitigation requirement of 343 metres. The Project’s SEV off-set mitigation requirements will be undertaken within the areas demarcated as areas A to D on the “Oakley Creek Realignment Layout Plan, drawing 20.1.11-3-D-D-330-21” (Refer Schedule A, Row 23).

Advice Note: The SEV off-set mitigation associated with the Maioro Interchange Project is intended to be undertaken upstream and downstream of those areas shown for Realignment and Rehabilitation (Refer Schedule A, Row 23), for the purposes of creating a coherent ecological corridor in this area.

69) STW.31 Design of flood defences for the southern portal shall be in accordance with the catchment
management option preferred by Auckland Council with allowances for climate change, sea-level rise and Maximum Probable Development.

**Pre-Construction**

70) **STW.2** Any future amendments that may affect the performance of the streamworks shall be approved by the Major Infrastructure Team Manager, Auckland Council in writing, prior to construction. Any amendments to the design shall be in accordance with the Western Ring Route: Oakley Creek Re-alignment and Rehabilitation Guidelines (Boffa Miskell, 2010), appended to *Technical Report G.6 Assessment of Freshwater Ecological Effects*.

71) **STW.3** The NZTA shall inform the Major Infrastructure Team Manager, Auckland Council in writing at least 10 working days prior to any streamworks commencing, and again 10 working days before any environmental protection measures are removed.

72) **STW.4** Prior to streamworks commencing on site, the NZTA shall arrange and conduct a pre-construction site meeting between Auckland Council, NZTA and the primary contractor.

73) **STW.5** At least 20 working days prior to commencement of streamworks associated with the realignments of Oakley Creek and the Stoddard Road tributary, the construction design details associated with these works shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval. The details shall include but not be limited to:

(a) Detailed design of the proposed streamworks including long sections, cross sections and details of the design including freshwater habitat improvement and riparian planting;

(b) Construction erosion and sediment control plans (ESCP).

74) **STW.6** The NZTA shall forward a detailed construction programme and methodology to the Major Infrastructure Team Manager, Auckland Council at least 10 working days prior to the commencement of works, and shall provide monthly updates during the streamworks. These shall include details of:

(a) The commencement date and expected duration of the streamworks;

(b) The location of any works and structures in relation to the streamworks; and

(c) Dates for the implementation of erosion and sediment controls.

75) **STW.16** The NZTA shall obtain approval of the constructed stream realignment works from the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to diversion of Oakley Creek into the new channel.

76) **STW.20** The NZTA shall submit for approval to the Major Infrastructure Team Manager, Auckland Council a Streamworks Environmental Management Plan (SWEMP) which shall include details of the final freshwater mitigation and environmental enhancement works associated with the Project to give effect to the design set out in Technical Report G.15 and principles of the "Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines" described in Condition STW.22. This SWEMP shall cover the mitigation for the loss of an area of Pixie Stream, Oakley Creek and the Stoddard Road tributary. It shall be submitted to the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to the proposed enhancement works being commenced under this consent and shall include, but not be limited to, the following:

(a) The nature of works to be undertaken;

(b) The location of works;

(c) Detailed design and plans of all enhancements to the stream bed and/or stream channel, including any structures or other engineering works. This includes replication
(d) Riparian planting programmes, including detailed planting plans and specifications relating to species mix, location, density, size and maintenance to achieve an overall average of 70% shading of stream at maturity within those reaches where realignments or the SEV off-setting mitigation associated with the Project are proposed;

(e) Timing of implementation;

(f) The outcomes of consultation with Iwi (Ngati Whatua o Orakei and Te Kawerau Tribal Authority), the Community Liaison Group (see Condition PI.6), and Friends of Oakley Creek; and

(g) How the basalt blocks from sections of the existing Oakley Creek channel that are to be realigned will be reused, with preference given to use within the channel realignment works and within other works identified in the Alan Wood Open Space Restoration Plan. Options for reuse shall take into account, but not be limited to:

(i) The heritage (cultural) values of the basalt blocks in the channel walls, in-situ basalt e.g. at the Stoddard Confluence and the basalt columnar blocks; and

(ii) The ecological values of the basalt block substrates with terrestrial and aquatic vegetation e.g. endangered moss *Fissidens berteroi*.

Advice Note: The intent is to include the SEV off-setting mitigation associated with the Maioro Interchange Project within Hendon Park and Alan Wood Reserve, and to the same shading standard as specified in Condition STW 20(d).

77) STW.22 The SWEMP shall be prepared in general accordance with the “Western Ring Route – Maioro Street Interchange and Waterview Connection - Oakley Creek Realignment and Rehabilitation Guidelines” (Boffa Miskell, 2010) appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

78) STW.25 Any material amendments to the SWEMP shall be submitted for approval by the Major Infrastructure Team Manager, Auckland Council at least 20 working days prior to any amendment being implemented.

79) STW.29 Any amendments to works by the NZTA in the floodplain that may increase the flooding effects shall be submitted to the Major Infrastructure Team Manager, Auckland Council for approval in writing at least 20 working days prior to construction. These proposed amendments shall include updated drawings and hydraulic modelling using the Oakley Creek Catchment Model to assess the effects of the change.

**Construction**

80) STW.1 The streamworks and associated works (such as stormwater outfalls) shall be undertaken in accordance with the plans and information contained within Technical Report G.15 Assessment of Stormwater and Streamworks Effects and Technical Report G.22 Erosion and Sediment Control Plan, submitted with this application. The design of streamworks and associated works shall follow the approach expressed in the Oakley Creek Re-alignment and Rehabilitation Guidelines, appended to Technical Report G.6 Assessment of Freshwater Ecological Effects.

81) STW.7 No streamworks shall be undertaken between 1 May and 30 September unless written approval has been obtained from the Major Infrastructure Team Manager, Auckland Council. Any such approval shall be sought at least 10 working days prior to the proposed commencement of the works.
82) STW.8 All erosion and sediment controls associated with the streamworks shall be constructed and installed in accordance with Technical Report G.22 *Erosion and Sediment Control Plan* submitted with this application.

83) STW.9 The site shall be stabilised against erosion as soon as practicable and in a progressive manner as streamworks are finished.

84) STW.10 All uncompacted material shall be kept clear of the channel during and after streamworks.

85) STW.11 The NZTA shall ensure that any temporary dam structure built within the stream shall be constructed from non-erodible material (such as sandbags or sheet piles).

86) STW.12 The NZTA shall ensure that when dewatering the in-stream works area, no sediment-laden water shall be discharged directly into a watercourse. Any sediment-laden water must be treated in an appropriate sediment treatment device in accordance with TP90.

87) STW.13 All machinery shall be maintained and operated in a way which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing.

88) STW.14 The NZTA shall ensure that:

(a) Any excavated sediment that requires temporary stockpiling shall not be placed within the 100 year ARI flood plain, and

(b) Erosion and sediment control measures around the stockpile perimeter shall be constructed in accordance with TP90.

89) STW.26 All proposed stream bed and/or stream channel structures shall not impede the passage of fish both upstream and downstream.

90) STW.27 Works in the floodplain (including motorway embankments, ancillary earthworks and streamworks) shall be in accordance with the final design of the streamworks approved by the Major Infrastructure Team Manager, Auckland Council (as per Conditions STW.5 and STW.29) and be undertaken in accordance with the plans and information submitted with this application including, but not limited:


(i) Plan F.2 Operation Scheme Plans (Refer Schedule A, Row 3); and

(ii) Plan F.14 Streamworks and Stormwater Discharges (Refer Schedule A, Row 15).

(b) Technical Report G.15 *Assessment of Stormwater and Streamworks Effects*.

**Post-Construction / Operations**

91) STW.23 The NZTA shall implement the mitigation and environmental enhancement works contained in the approved SWEMP within 12 months of practical completion of the Project.

92) STW.24 The NZTA shall supply to the Major Infrastructure Team Manager, Auckland Council within three months of the completion of the riparian planting works written confirmation from an appropriately qualified landscape architect or ecologist that the riparian plantings have been implemented in accordance with the SWEMP approved under Condition STW.20.

93) STW.28 Within three months of completion of the works, the NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council “as built” plans certified by a qualified and experienced engineer to confirm that the works have been carried out in accordance with Condition STW.27.

94) STW.30 The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a
certificate signed by an appropriately qualified and experienced engineer to certify that the flood protection works for the tunnels have been constructed in accordance with the drawings, approach and standards supplied with this application, prior to the opening of the Project.

**Monitoring**

95) STW.15 The design engineer and Project ecologist shall monitor the construction of the streamworks. The NZTA shall submit to the Major Infrastructure Team Manager, Auckland Council a certificate signed by an appropriately qualified and experienced engineer and ecologist to certify that the streamworks have been undertaken in accordance with the drawings supplied with this application, or as otherwise amended under Condition STW.2, within three months of completion of the streamworks.

**FRESHWATER CONDITIONS**

**Pre-Construction**

96) F.1 The NZTA shall finalise, and implement through the CEMP, the ECOMP submitted with this application. The ECOMP shall be updated to ensure compliance with the conditions of this consent and include changes to the details of construction processes prior to construction commencing. The ECOMP shall include, but not be limited to details of:

(a) Monitoring of freshwater ecology;

(b) Monitoring of freshwater and stream sediment quality;

(c) Trigger event criteria for undertaking additional monitoring;

(d) Procedures for responding to accidental discharges of contaminants to the freshwater environment; and

(e) Contingency plans and/or remedial measures in the event monitoring results identify adverse effects.

**Monitoring**

97) F.2 The NZTA shall engage a suitably qualified ecologist and water quality scientist to undertake freshwater monitoring programme prior to, during and following construction to monitor the effect of the Project on the freshwater ecology. The freshwater monitoring shall be undertaken in Oakley Creek, Pixie Stream and Meola Creek. The freshwater monitoring programme shall be undertaken in accordance with the details set out in the ECOMP and include:

(a) Cross sectional profiles;

(b) Macro invertebrate sampling; and

(c) Freshwater fish monitoring.

98) F.3 The freshwater monitoring programme shall, as a minimum, be undertaken in accordance with the following frequency:

(a) Prior to construction – two baseline ecological surveys.

(b) During construction – twice per year for fish and macro invertebrates and cross sectional profiles, within one month prior to the beginning of the earthworks season and within one month either side of the end of the earthworks season.

(c) Post construction – on an annual basis for a maximum period of three years, or less if the Major Infrastructure Team Manager, Auckland Council is satisfied that no adverse
(d) Monthly water quality samples at the five existing Oakley Creek sample locations to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb) and nutrients.

(e) Four "event based" samples per annum from each of the current two Oakley Creek sites. The samples are to be analysed for pH, turbidity, suspended solids, metals (Zn, Cu and Pb), hydrocarbons (TPH) and nutrients.

(f) Two sediment quality samples per annum (January and July) at the five existing water quality Oakley Creek sites (if there is sufficient sediment to sample). The samples are to be analysed for metals (Zn, Cu and Pb), polycyclic aromatic hydrocarbons (PAH), hydrocarbons (TPH) and semi-volatile organic compounds.

Advice note: The sample collection and analysis required under sub-clauses (d) to (f) shall be undertaken following an IANZ accredited methodology by a suitably accredited laboratory (International Accreditation New Zealand).

99) F.4 The NZTA shall undertake additional freshwater monitoring in the event of a 'trigger event' for freshwater habitats. For the purposes of this consent, a 'trigger event' for freshwater habitats is defined in the ECOMP.

100) F.5 The NZTA's ecologist/hydrologist (required by condition F.2) shall review, every six months, the freshwater monitoring results, provided from Conditions F.2 to F.4, and results in monitoring detailed in earthworks Conditions E.9 and E.19 and Groundwater Condition G.10. In the event that potential adverse effects are identified, including through review of the Condition G.10 monitoring results by the hydrologist and freshwater ecologist required by Condition G.12, the NZTA shall develop and submit for the approval of the Major Infrastructure Team Manager, Auckland Council appropriate contingency plans and/or remedial measures in accordance with the measures set out in the ECOMP.

**Reporting**

101) F.6 Freshwater monitoring reports shall be compiled from the monitoring undertaken pursuant to Conditions F.2 to F.4 and the review of Condition F.5, and a report provided to the Major Infrastructure Team Manager, Auckland Council every 6 months.