Environmental Management Plan

Project: Peacockes to Whatukooruru Drive

Contract No: 1298-2022

Downer Job No: DN1205

Environment
ISO 14001

Contract Plan Issue Date	Document Preparation & Control Project Manager	Document Authorisation Project Director
30 Sept 2022	Craig Lingard	Toby Davies

Distribution

This plan has been distributed to:

Copy No	Holder
01	Contractors Representative – Craig Lingard
02	Waikato Regional Council
03	Hamilton City Council
04	

Authorisation

The Document control requirements of Downer SPM/5 are applied to this plan as follows;

Originator and Document Controller	Project Manager	Craig Lingard
Approver	Project Director	Toby Davies

Revision Register

Amendment No	Description	Date
1		
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B		
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0 Introduction

Downer New Zealand Limited has been awarded a contract by Hamilton City Council (HCC) to undertake construction of Whatukooruru Drive, new major arterial road from Peacockes Road to Hall Road, and an accompanying upgrade of Peacockes Road. Works will be undertaken in Peacocke, a southern suburb of Hamilton.

Roading works include greenfield construction across existing pastoral land with two new bridges across the Mangakootukutuku stream and an unnamed tributary of the Mangakootukutuku stream, and the widening and resurfacing of the existing rural Peacockes Road.

As required by the Contract Documents, Resource Consents and Downer Environmental Management Policy in order to effectively manage the environmental issues on site a Environmental Management Plan (EMP) is required.

This Environmental Management Plan (EMP) has been prepared to meet these requirements and will fit within the suite of Management Plans prepared for the project.

The Project-specific Management Plan set for this project is:

This EMP is tailored to fit with this set of documents, ensuring all requirements of NZS14001are covered when the full Company Integrated Management System and the Project-specific document set are considered together.

This plan will reference, but not duplicate, what is adequately covered in ISO9001:2000 Certified Quality System, AS/NZS 4801: 2001 Health and Safety System and ISO14001:2004 Environmental Management System.

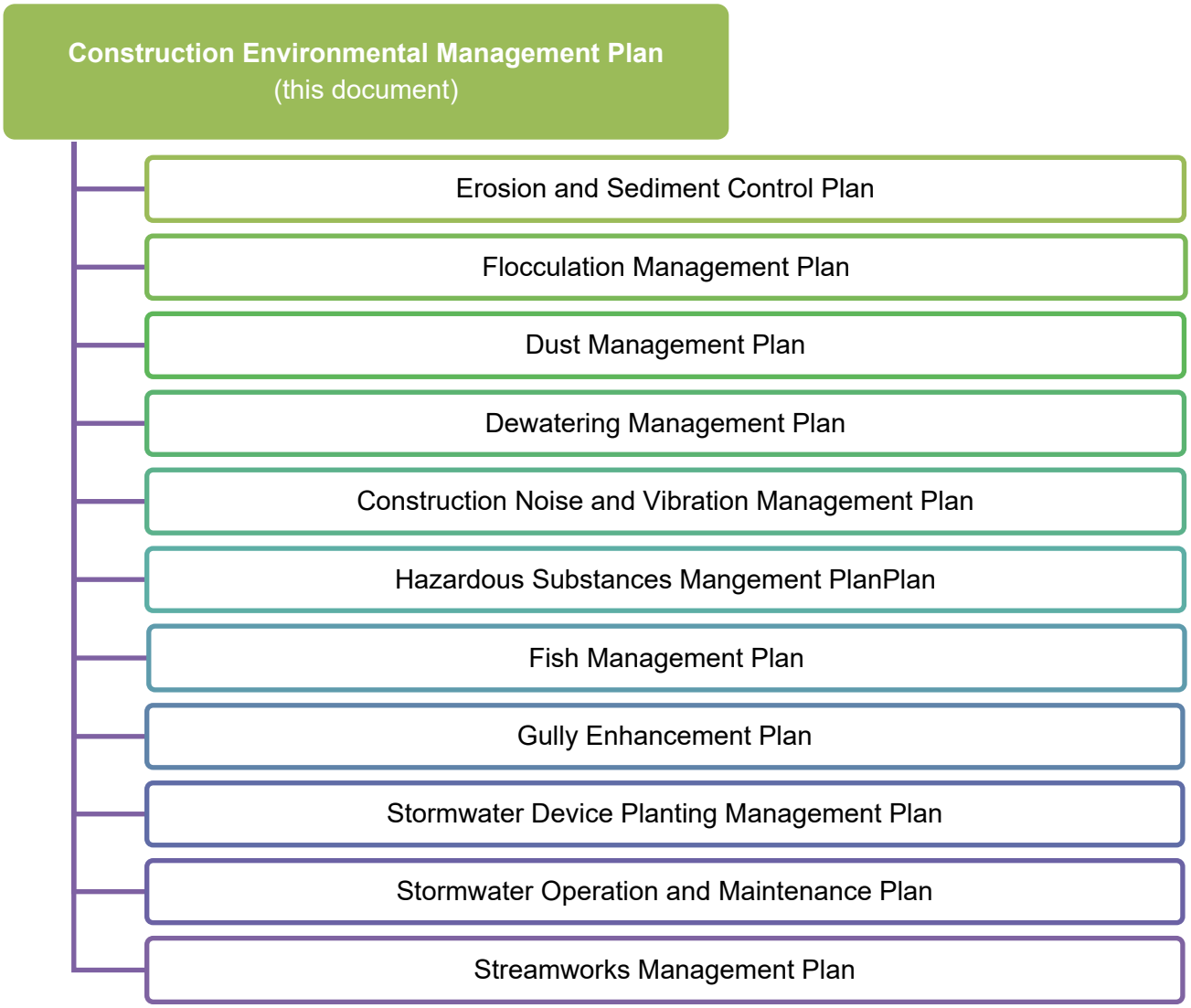
1 EMP Scope

This document has been prepared to satisfy the requirements of:

- Designation (NoR HCC 168A)
- Resource Consents AUTH144460.01.01-AUTH144460.08.01
- HCC 1298/2022 – Peacocke Whatukooruru Drive – Project Specification

This plan should be read in conjunction with the Southern Links Project - Environmental Management and Monitoring Plan (EMMP).

In order to meet the above requirements this EMP includes, as Appendices, a number of sub-plans including:



2 Purpose

The purpose of this plan is to define process and organisation of resources that will:

- Support the client and Downer achieving their project environmental objectives, goals and targets
- Ensure Downer delivers a product that meets all contract requirements
- Ensure the project is performed in a manner that supports continued accreditation of the Downer Integrated Management System to ISO9001, ISO14001, NZS4801 and ACC Partnership Tertiary Level.

3 Objectives

Downer company environmental and sustainability objectives are shown in the following policy.

Downer
Relationships creating success

ENVIRONMENTAL SUSTAINABILITY POLICY

Downer is a leading provider of services to customers in global markets including Transportation, Energy and Resources, Industrial, Infrastructure and Commercial Services, and Facilities.

Our goal is to...

- minimise the short and long term impact of our activities on the environment and local communities through responsible environmental sustainable management within design, planning, delivery, construction, manufacturing and operation;
- promote a positive culture through implementing initiatives that foster sustainable innovation; and
- optimise our products and services to relentlessly improve our environmental sustainability performance and improve the sustainable use of natural resources.

We commit to ...

- complying with relevant environmental legislation, appropriate industry guidelines and standards, customers and regulatory agency requirements;
- implementing responsible resilient work practices that minimise the impact on local communities;
- implementing and maintaining an environmental management system consistent with International Standard AS/NZS ISO 14001 which integrates requirements throughout the overarching operational systems;
- establishing, monitoring and reviewing environmental sustainability objectives and targets and identify opportunities to improve our environmental sustainability;
- evaluating the performance, effectiveness and compliance of our environmental management systems through regular audits and reviews;
- implementing effective controls to identify, evaluate, eliminate or reduce adverse environmental risks from our work activities;
- take all practical steps to prevent pollution and protect biodiversity and ecosystems;
- driving innovation to identify sustainable supply chains, reduce operational energy, waste, and water consumption, reduce emissions, and mitigate climate change;
- procuring goods and services to minimise environmental risk and maximise environmental sustainable opportunities and benefits for the total life cycle;
- providing education, training and encouragement to our workforce, and business partners to understand their responsibilities for the implementation of environmental sustainability principles and practices; and
- displaying this policy, making it publically available and sharing it with interested parties.

Grant Fenn
CEO and Managing Director

Steve Killeen
CEO New Zealand

Sergio Cinerari
CEO Infrastructure Services

Brendan Petersen
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Dana Nelson
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Downer EDI Limited
ABN 97 003 872 848

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DG-ZH-PO001

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4 Project Environment Goals and Targets

Downer Environmental Objectives for Downer NZ are established to support our Environmental Policy. The Contract Review Team has set the following targets for this project to support achievement of those objectives:

Item no.	Key Performance Indicator	Target
1.	Environmental NCRs/OFIs	>5 per month
2.	Site Environment Inspections	> 4 per month
3.	External Environmental Scores	Average Score < 2 No more than one score above 3 *(based on Waikato Regional Council Scoring System)*

Additional inspections will be undertaken following any significant rainfall event.

Details of the inspection template have been included in the Erosion and Sediment Control Plan (ESCP).

This EMP sets out how Environmental processes on this Contract will be controlled.

Specifically, this document addresses:

- The definition of concise environmental objectives and targets to meet Downer NZs Environmental and Sustainability Policies in addition to project specific objectives and contract requirements.
- Project–related environmental procedure and process to address construction and operational impacts as well as stakeholder concerns.
- The definition of Project personnel responsibility, and
- Monitoring and control activities to ensure environmental compliance.

(This plan is supported by the Downer EMS Guide GM03).

This plan covers the entire scope of Downer activities on the project site. Separate Subcontractor Environment Management Plans will be relied on to cover some aspects of scope performed on site.

5 Environmental Requirements

5.1 Downer Requirements

Downer require that all the requirements of NZS14001 are covered within the whole Company and Project-specific document set, including this plan.

5.2 Contract Requirements

The Project Specification (Section 9.1.2) requires that the Contractor observes all conditions and requirements of the designation and outline plans relating to construction. Section 9.2.2 requires that the Contractor shall be responsible for ensuring compliance with all district and regional plans and observing all conditions and requirements of the resource consents relating to construction.

- This EMP and the attached sub-plans have been prepared to address this requirement.

5.3 Designation Requirements

See Appendix X for HCC consent conditions and compliance table.

5.4 Consent Requirements

See Appendix X for WRC consent conditions and compliance table.

6 Site Specific Details

The following section provides information and or addresses issues that are not addressed within the sub-plans.

6.1 Project Overview

The Contract Works include the following activities:

a) Two new bridge (approx. 85m long each) carrying two lanes of traffic over the Mangakotukutuku Stream and an associated tributary ephemeral gully;

b) A new, greenfield section of arterial road extending over a distance of around 1.3km from Hall Road in the west to Peacockes Road in the east. The road carriageway will comprise a two lane road with a flush median strip, separated cycle lanes and pedestrian footpaths on either side;

c) The installation of service infrastructure including a stormwater management network extending along the road and into adjacent areas of drainage reserve with specific stormwater management devices including 1 x's stormwater wetland, 3 x's rain gardens, 1 x's attenuation basin and lengths of roadside swales;

d) Upgrade of an existing section of Peacockes Road comprising a 450m stretch of existing rural road carriageway extending northward from the planned intersection with the new Whatukooruru Drive carriageway, back towards Hamilton City..

e) Approximate volume of earthworks for road formation is described as 30,000m3 including a topsoil strip of around 22,000m3 , cut/fill of around 8,000m3 and importation of around an additional 40,000m3 of structural fill material.

f) Relocation of utility services;

g) Landscaping and landscape planting and maintenance;

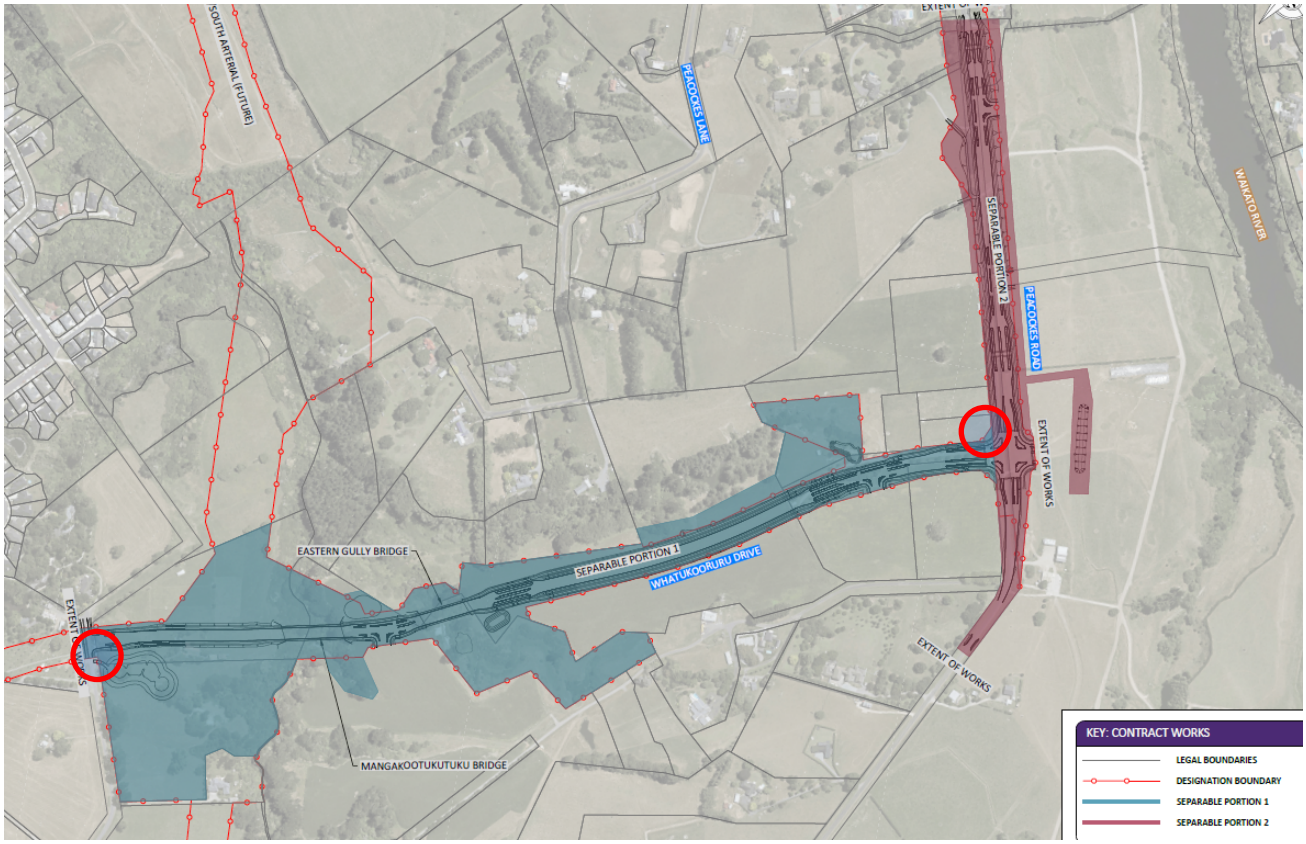
6.2 Project Contacts

Contact details for key personnel has been included in Appendix N.

6.3 24-hour Contact Person

Downer Project Manager	Craig Lingard	0274920907	craig.lingard@downer.co.nz

6.4 Notice Board Locations



Project notice boards outlining key project contacts and information will be located at the two construction entrances detailed above.

6.5 Working Hours

The hours of construction work are limited by compliance with Construction Noise Limits and Traffic Management restrictions. Typically as follows:

- 7:00am to 7:00pm Monday to Saturday
- No work on Sundays
- No works after 1600h on the day prior to New Zealand Public Holidays.

Isolated works may require works outside the normal working hours to avoid traffic disruptions etc. These works will be approved by the Engineer prior to commencement.

6.6 Storage of Construction Equipment

- Construction equipment / material will be stored within the site boundaries, contractor available areas or other appropriate off site facilities.
- Construction equipment / material is to be stored as far as practical from boundaries.
- Construction equipment / material is not to be stored within the root zone of any protected tree.
- Construction materials with an objectionable odour will not to be stored on site without suitable measures to prevent odours.
- All storage of construction equipment / materials is to be in accordance with Hazardous Materials storage regulations and bylaws.
- Storage of construction equipment will be located and undertaken in a manner which limits the potential for this operation to result in the generation or discharge of dust outside the site boundaries.

6.7 Fencing of Construction Activities

- All areas of the site are to be suitably fenced to prevent access to the construction areas by the general public and to prevent construction works from extending outside the site boundaries.
- The specific design of this fencing will be dependant to the construction activities at the location and the surrounding land uses.
- In particular this requires that where construction activities require modifications to any existing fences, these modifications will be to the existing standard of the fence or will be to a standard agreed with the fence owner.
- All fences between the construction site and adjacent paddocks will be suitable stock fences, as above, duplicating the existing fences.

6.8 Cleaning of spilled debris from public places

- In accordance with the Erosion and Sediment Control Plan stabilised construction entrances will be installed to minimise the potential for debris to be deposited on public roads.
- Any material dropped or spilled in public areas including roads and berms will be removed immediately.

6.9 Parking of Site Vehicles

- Provision for parking site vehicles will be made on site.

6.10 Reinstatement of public or private areas

- The disturbance of any public or private areas outside of the authorised works footprint will be avoided by fencing and compliance with the various management plans associated with the project.
- Any disturbed public or private areas will be reinstated to the standard before the commencement of works in that area.

6.11 Vegetation Removal

- The vegetation to be removed as part of the project is located within the designation.
- Vegetation outside of the project area will not be removed.

6.12 Biosecurity

This section of the EMP specifically addresses the potential for and methods of mitigating any Biosecurity risks identified as part of the project works.

During initial site investigations in support of consent applications there were no areas of biosecurity risk identified.

Notwithstanding this, due to the scale of the works and the location of the works there is potential for biosecurity risks, in particular from invasive weeds, to be identified.

6.12.1 Ecology

<u>Vegetation</u>

Vegetation within the two gully features is described as a mix of exotic and indigenous gully vegetation with the dominant indigenous vegetation comprising tree ferns and mahoe and the exotic vegetation almost exclusively comprising pest plant species. Within the Mangakotukutuku Gully, vegetation is described as comprising a canopy of regenerating natives including kanuka, mahoe, mamaku, cabbage tree and exotics including privet and

woolly nightshade. The understory and ground cover include ponga, karamu, various ferns and exotics such as ink weed, barbary and gorse. Riparian vegetation along the stream channel is described as being dominated by willows and privet. While, some indigenous pockets were noted, these are not dominant and are being impacted heavily by the exotic, invasive species. Within the smaller Eastern Gully, the vegetation was a mosaic of dense exotic and indigenous vegetation with some open areas. Pines dominated the gully slope and willows dominated the gully floor canopy growths with an understory including young ponga, karamu, ferns, pampas, honeysuckle, privet and blackberry. The gully floor contained a mosaic of swamp wetland and riparian wetland extending along the tributary stream – refer below. Overall, terrestrial vegetation habitats within the gully areas are described as presenting 'moderate values due to these areas comprising typical, modified gully habitats not representative of any native ecosystem types and being dominated by exotic/pest species but with some native re-growth present.

Aquatic Ecology

As noted, the two gully features include the Mangakotukutuku Stream and Eastern Gully Stream channel aquatic habitat features which are described as comprising permanent flowing, soft bottom stream channels which meander through the broader gully floor areas. The ecological assessment presented in the application has not included specific fish surveys however has referred to assessments undertaken for the broader Southern Links/EMMP assessment undertaken in 2018 which included specific surveys of the subject stream reaches. This assessment identified a broad range of native fish as being present within the stream channels within the site area including Shortfin/Longfin eel, Giant/banded kokopu and Redfin bully. The site area was also identified as presenting areas of potential black mudfish habitat although discussions with the WRC ecologist have outlined that this species is not known to be present within the broader catchment area. Overall, aquatic habitat values associated with both of these watercourses is described as 'high' due to the presence of 'At-Risk-Declining' native fish species and these habitats contribution to the broader gully network.

Wetland Ecology

The ecological assessment has identified the presence of an area of wetland located within the site footprint which is described as comprising a palustrine hydrosystem in a highly degraded state located within the Eastern Gully directly upstream of the proposed bridge crossing. The wetland is further described as comprising a swamp system with seepages present on the gully mid-slopes and with wetland vegetation dominated by the indigenous sedge, carex germinata. Overall wetland habitat values are described as 'high' primarily due to the significant decline in these habitats within the region due to human impacts.

Avifauna

The gully vegetation is described as providing abundant habitat resources to support native and exotic bird species. All bird species recorded were classified as introduced and naturalised or not threatened, being dominated by common exotic species found in rural environments and with those native species identified comprising common species such as tui and fantail. Overall avifauna habitat values are described as being 'moderate' due to relatively low diversity and low native species composition

Lizards

No lizards were identified during the ecological assessment undertaken for the project. However, previous lizard surveys undertaken for the broader Southern Links project identified lizard habitat including a functional population of Copper Skink within the Mangakotukutuku Stream gully crossing area. Other areas of potential lizard habitat were also identified including on the drier slopes of the Eastern Gully with fern ground cover and woody debris present. Overall lizard habitat values are described as being 'moderate' due to moderate ground-dwelling lizard habitat and the previously recorded skink populations in this area.

Bats

The Mangakotukutuku Stream gully system has previously been identified as a foraging pathway for long tailed bats. In addition, there has been one identified maternity roost tree and two potential roost trees located within 40m of the Eastern Gully crossing within the nearby northern gully system which runs parallel to the road alignment. In addition, the broader Southern Links project has included further assessment/identification of potential bat roost trees and identifies a number of additional trees which present roost potential ranging from low to high risk within both the Mangakotukutuku and Eastern gully areas within the site works footprint. Overall bat habitat values are hence assessed as being 'very high'.

6.12.2 Mitigation

The following management plans have been developed to detail the mitigation measures and strategies that will be employed to mitigate adverse effect on the environment and ecology of the site:

- Pre-Construction Consultation and Communication Plan (HCC)
- Ecological Management and Monitoring Plan (HCC)
- Concept Landscape Management Plan (HCC)
- Transport Network Management Plan (HCC)
- Property Acquisition and Management Engagement Practice (HCC)
- Heritage and Archaeological Site Management Plan (HCC)
- Site Specific Archaeological Investigation (HCC)
- Road Traffic Noise Assessment Report (HCC)
- Pre-Construction Ambient Noise Level Measurements (HCC)
- Draft Operational Lighting Plan (HCC)
- Outline Plan of Works (HCC)

- Construction Management Plan (This Plan)
- Construction Communication and Consultation Plan (Appendix A)
- Construction Noise and Vibration Management Plan (Appendix B)
- Construction Traffic Management Plan (Appendix C)
- Dust Management Plan (Appendix D)
- Hazardous Substances Management Plan (Appendix E)
- Erosion and Sediment Control Plan (Appendix F)
- Flocculation Management Plan (Appendix G)
- Dewatering Management Plan (Appendix H)
- Streamworks Management Plan (Appendix I)
- Fish Management Plan (Appendix J)
- Gully Enhancement Plan (Appendix K)
- Stormwater Device Planting Management Plan (Appendix L)
- Stormwater Operation and Maintenance Plan (Appendix M)

6.13 Litter and Waste Control

Construction sites have a variety of waste streams including:

- officer paper;
- lunch wastes;
- cans and bottles from smoko sheds;
- concrete;
- wood (treated and untreated);
- steel;
- plastics;
- packaging; and
- general waste.

With construction and demolition wastes accounting for 30% of all landfill waste, opportunities for re-using and recycling construction materials will be investigated and implemented where practicable.

Bins will be located throughout the site to ensure waste materials and recyclable materials are stored and disposed of appropriately. Office paper, cardboard and bottles, cans and plastic will be collected for offsite recycling.

Opportunities for recycling concrete, plastics and wood into other value added products and possible reuse back on site will be considered. Concrete washout areas will be available at each specific site, in well defined and signposted areas. These may include pits or skips. They will be maintained regularly during the project

6.14 Weather Monitoring

Current and Long term weather forecasts will be constantly monitored to ensure that construction activities are planned and resourced to address any changing weather conditions.

This monitoring will utilise various forecasting services including the NZ MetService and MetVUW web sites.

A daily record of onsite weather conditions will be maintained.

In the event of a forecast significant weather event (high winds or heavy or persistent rainfall) additional inspections will be undertaken prior to these events. Further inspections will be undertaken immediately after these events. If appropriate inspections will also be undertaken during significant weather events.

7 Monitoring, Measurement and Evaluation

7.1 Hazard Reporting

All personnel are responsible for the ongoing identification of hazards or system faults and have the ability to bring these to the attention of their supervisors and managers. A concern/request shall be noted on an Event Report Pad. Where the concern/ request is raised verbally the receiving supervisor or manager must translate this in to an event report. All environmental concerns/ requests should then be logged onto the local NCR/OFI system for appropriate management action.

Immediate environmental concerns are to be dealt with as a matter of priority commensurate with the hazard posed.

Once a concern/ request has been raised (and if the problem has not been dealt with immediately) the NCR/OFI management process must consider the concern/ request in a timely manner. The person raising the request is to be given a written response to his/her concern/ request detailing the actions taken or intended; including any reasons for not carrying out their requested action.

7.2 Meetings

Meetings are held at various levels within this contract at which the topic of environmental management will always be included on the agenda.

Whilst the company conducts monthly Management Meetings at which environmental matters from this contract are raised, weekly Toolbox Talks/meetings will be held allowing the discussion of environmental topics between staff on the ground and management.

In addition, Job Start Briefings will include discussion of environmental management.

All meetings are a healthy forum where feedback on hazards, incidents, concerns and good ideas are discussed, debated and appropriate actions determined.

7.3 Site Environmental Inspections

Environmental inspections shall be performed using a checklist completed during the inspection. This will focus on the proper functioning of the site systems for hazard management and site emergency procedures.

7.4 Operational Environmental Audits

Implementation of each aspect of this Environmental Plan will be progressively audited by Project Management staff on a regular basis.

The work of Subcontractors is to be monitored and audited to make sure the works are being performed to the contract environmental requirements. This may involve direct inspection or auditing of the Subcontractors own environmental system.

This auditing will include both evaluations, to measure the degree to which the plan is being followed, and review to gauge the effectiveness of the processes.

7.5 Downer Internal Environmental Audits

Implementation of all aspects of this Environmental Plan will be audited using SPM/9 from the Standard Procedures Manual. This Project will be internally audited at least annually. The management of this task, the schedule of audits and their records will be controlled.

The NCR form and register will be used to follow up any non-conformance discovered.

Downer has established and maintained programmes and procedures for periodic Management System audits, encompassing contract plans, in order to:

a) determine whether or not the Environmental plan
    1) conforms to planned arrangements for environmental management including the requirements of the International Standard; and
    2) has been properly implemented and maintained; and

b) provide information on the results of audits to management

An audit programme is prepared annually by the Systems Manager and details the dates when each audit will be carried out. The audit plan is updated throughout the year to include new contracts as they start. The audit team use environmental audit checklists for conducting audits. Audits are conducted by suitably qualified and independent auditors.

Reports are discussed with local line management of the area audited before it is finalised.

Contract Managers have responsibility for ensuring that timely corrective actions are taken to remedy deficiencies found during audits.

8 Non-conformance and Opportunity for Improvement

Downer has an established and maintained procedure for defining environmental responsibility and authority for handling and investigating non-conformance, taking action to mitigate any harms caused, and for initiating and completing corrective and preventative action

The systems used are:

- *EMSR1* Environmental Incident Reporting and Investigation Procedure
- *SPM06* Controlling Non-conformance
- *SPM07* Taking Corrective Action
- *ST05* NCR/OFI Form
- *ST06* NCR Flowchart

Any corrective or preventative action taken to eliminate the causes of actual and potential non-conformance shall be appropriate to the magnitude of problems and commensurate with the environmental harm encountered.

The Project Manager is responsible to ensure assessment and follow-up reviews on the effectiveness of corrective and preventive actions taken are carried out and the outcomes documented, communicated and implemented.

9 Management Plan Review

Commitment and continuous improvement to the Environmental culture by management is critical to its success and continuation.

The Contractor's Environmental Plan review includes:

- its compliance with the Contract objectives and specification;
- that the plan has not been impacted by changes to legislation, regulations, codes of practice, or bylaws;
- compliance by the Contractor with its plan;
- that corrective and preventative actions have been implemented and are embedded into work practices and
- that opportunities for continuous improvement in the environmental protection offered by our methods are identified, developed and implemented.

The Downer Contract Review Team for the Contract will review the Environmental Plan as part of their monthly contract review process. The review shall address all of the above matters.

Reasons for making changes to the EMP will be documented. A copy of the original EMP document and subsequent versions will be kept for the Project records, and marked as obsolete. Each new/updated version of the EMP documentation will be issued with a version number and date to eliminate obsolete EMP documentation being used.

Any relevant revisions to the EMP will be submitted to the Engineer (BBO) for comment at least 10 days before becoming operational.

9.1 Subcontractor Performance Reviews

At the conclusion of the contract the environmental performance of each Subcontractor shall be formally assessed and recorded. This will influence their ability to remain a pre-qualified subcontractor to Downer.

Subcontractors will also be included in Measuring, Monitoring and Evaluation activities.

10 Records

The activities required by this plan have the following associated records, for which pro-formas are available via the Downer Intranet at: Major Project's Quality Library.

a) Induction Register/Records
b) Environmental Hazard Register
c) Method Statement Register/Records
d) Job Start Records
e) Toolbox Talk Records
f) Training and Competency Register/Records
g) Resource Consent Authority -Site Audit Register/ Records
h) Environmental Equipment Register
i) Plant Pre-Start Check Record (protection against leaks of oil, fuel)
j) Management MOM
k) Site Environmental Inspection Records
l) Positive Impact Cards
m) Subcontract Agreements
n) Event Reports
o) NCR/OFI register and reports
p) Environmental Incident Reports
q) Environmental Incident Investigation Reports
r) H&S Noticeboard –standard content
s) Hazard Notice Board

11 Environmental Reports

11.1 Internal Audit Report

This report is a form established in the Downer IMS. It will identify NCRs and OFIs for follow up in that system.

11.2 HSE Monthly Group Report

A Downer Health, Safety and Environment (HSE) Monthly Group Report (HS17) is to be completed and provided to head office for consolidated reporting. This includes reporting of Environmental Inspections, Audits and any significant environmental issues.

11.3 Monthly Report - Environmental content

Using the HS17 report and other records, a report against the project goals and targets is to be produced including the following items:

- A schedule of approved Sediment Control Plans in operation on site.
- All monitoring and inspections of controls and systems completed in the month in accordance with the EMP programme.
- Non-conformance reports and incident reports generated by the Contractor, and other stakeholders.
- All reported incidents of adverse effects and corrective action reports required including any nil returns.

As required by the contract documents this Monthly Environmental Compliance Report will be included in the Project Monthly Report.

11.4 Environmental Incident / Non Compliance Notification

CS-VUE will be used for the management and reporting of all compliance requirements.

Rating	Classification Examples	Initial Notification Timeframe	Notification Period	Parties to be Notified
4	Incident, non-compliance, or risk identified with potential for significant effects on the environment. **Examples:** Significant uncontrolled discharge. Incident with likelihood of Wildlife Permit revoke. Significiant EMMP non-compliance.	As soon as possible	Phone call to ER and Principal as soon as possible. Email notification same day. Formal report via NTE.	ER, ETC, HCC. WRC as required. FOC as required. HCC consent officer as required.
3	Incident, non-compliance or risk identified, with potential for more than minor effects on the environment. **Examples:** Evidence of more than minor discharge from damaged/failed E&SC device. Significant or repeat exceedance of water/de-water allocation.	Same day	Email notification. Formal report via NTE.	ER, ETC, HCC. WRC as required. FOC as required. HCC consent officer as required.

	E&SC Audit score of 4.			
2	Minor non-compliance identified with consent conditions, with minor or less than minor effect on the environment. **Examples:** Evidence of minor discharge from damaged/failed E&SC device. Minor/moderate exceedance of water/de-water allocation. E&SC Audit score of 2 or 3.	Within 1 week.	Email notification. Follow up records in CS-VUE.	ER & HCC. WRC as required. FOC as required. HCC consent officer as required.
1	Minor issue/maintenance andaction required to maintain compliance. **Examples:** Maintenance of E&SC devices where no evidence of discharge. Minor dust issue. Modification to SSESCP requiring liaison and approval from WRC.	N/A	N/A Contractor to continue self-monitoring and internal reporting.	N/A Business as usual. Internal record keeping and maintenance/ inspection records uploaded to relevant conditions with CS-VUE.

12 Emergency Procedures

Prompt and effective emergency response reduces losses and the consequences of natural and man-made disasters. The following are standard situational responses. Job/task specific emergencies will be included in relevant Construction Package Method Statements.

Downer employs a range of procedures to ensure proper precautions are taken to mitigate any environmental emergencies. In the event of an incident, a full environmental investigation is carried out utilising ***EMSR01*** Environmental Incident Reporting and Investigation Procedure.

Guidelines for producing emergency preparedness and response procedures are available in Work Instruction *WI-012*.

12.1 Emergency Plan

In a situation where the Health and Safety of the public or site personnel is at risk, this plan needs to be read in conjunction with the provisions in the Project Safety Plan.

An emergency situation may require isolation of some or all services to the site to minimise damage to the environment.

Service Isolation points for electricity, water, gas and compressed air, are to be clearly identified on the Emergency Plan and marked in the field.

12.2 Emergency Drills

Emergency Procedures shall be regularly tested by way of drills and the NCR/OFI system used to follow up any identified actions.

13 Roles and Responsibilities

13.1 Individual Responsibility

All employees have a responsibility to identify and report environmental hazards within the workplace to their immediate supervisor. Their responsibilities will be communicated to them during the site induction. Furthermore all employees have a responsibility for monitoring the Environmental awareness practices of our subcontractors.

All hazards are to be reported to the immediate Supervisor or Manager, who will arrange necessary action to eliminate, isolate or minimise the hazard.

All employees shall participate in the Job START process and attend toolbox talks to discuss the worksite environmental hazards and changes.

All employees have a responsibility to perform their activities in conformance with the Site Induction, Method Statement, Job Start and training.

13.2 Role-Specific Responsibilities

The matrix below defines who is responsible for each of the tasks described in the plan being done. Each task has an owner who is accountable for that task being completed in full to the required standard and timetable and recorded appropriately. In many cases that person is assisted by others.

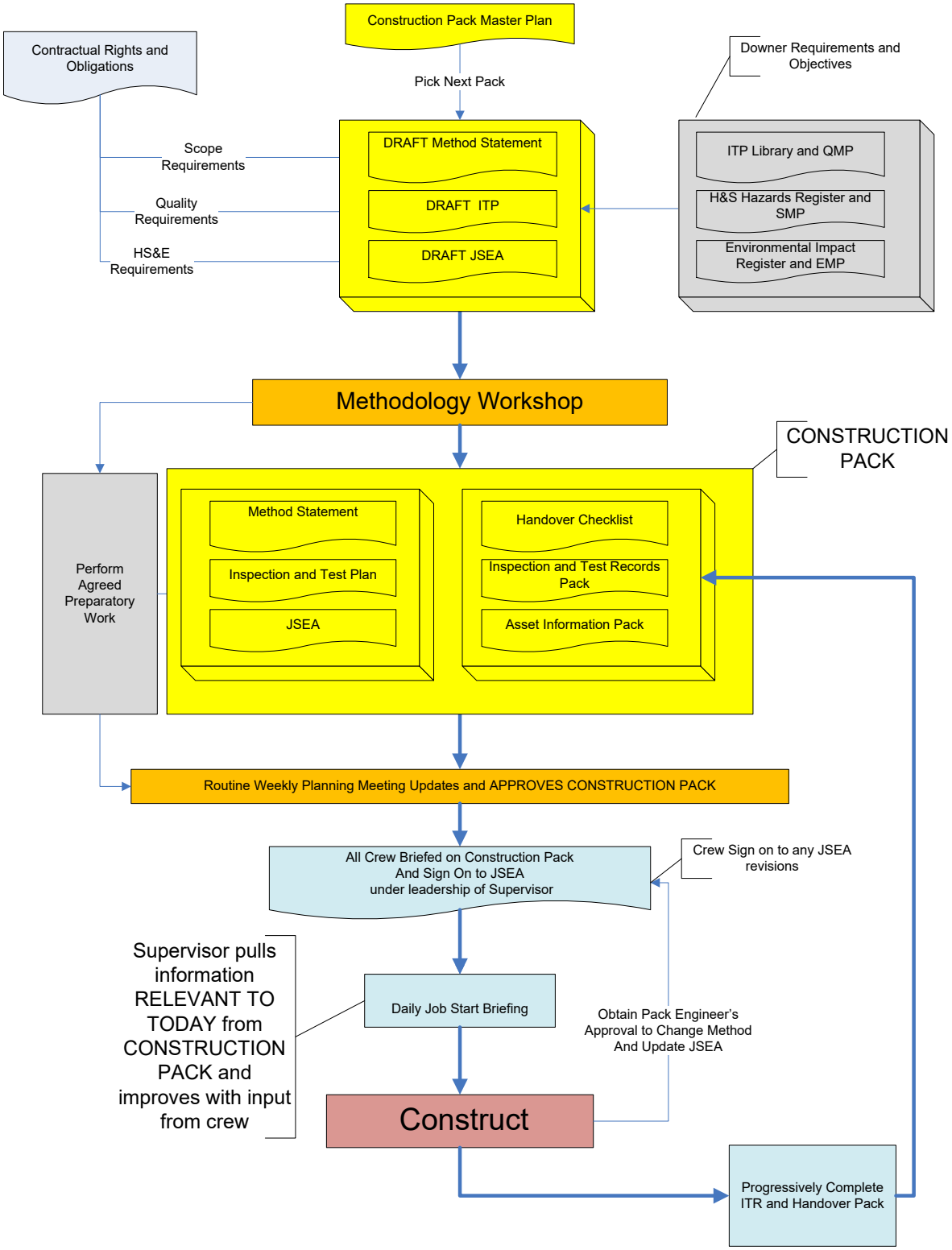
Management Plan	Responsibility				
Role	Project Manager	Environmental Manager	Project Engineer	Site Supervisor	HSE Advisor
Environmental Management Plan Maintenance	Assist	Own	Assist	Assist	Assist
Project Safety Goals Measurement					Own
Site Induction Design	Assist	Assist	Assist	Assist	Own
Site Induction Delivery	Assist	Assist	Assist	Own	Assist
Visitor Induction Design					Own
Visitor Induction Delivery	Assist	Assist	Assist	Assist	Own
Accepting Subcontractor Management Plans	Own	Assist	Assist		Assist
Environmental Hazard Register		Own	Assist	Assist	Assist
Construction Packaging Plan			Own	Assist	
DRAFT method statement		Assist	Own	Assist	Assist
Preliminary Method Statement		Assist	Own	Assist	Assist
APPROVING Method Statement		Assist	Own	Own	Assist
Daily Job Start Briefing				Own	Assist
Managing change	Own	Assist	Assist		
APPROVAL to change Method Statement		Assist	Own	Own	Assist
Site Environmental Inspections		Assist	Assist	Own	Assist
Event Reports	Assist	Assist	Assist	Own	Assist
Toolbox Talks				Assist	Own
Training and Competency of Site Mgmt	Own				Assist
Training and Competency of Workforce				Own	Assist
Recognition System	Own	Assist	Assist	Assist	Assist
Equipment Checks				Own	Assist

Spill Kits		Assist		Own	Assist
Plant Selection				Own	Assist
Hazardous Substances SDSs and EPs				Assist	Own
Hazardous Substances Register				Assist	Own
Waste Management Register				Assist	Own
Subcontractor prequalification	Own				Assist
Emergency Plan				Assist	Own
Emergency Drills				Assist	Own
Incident Investigation	Own				Assist
Operational Environmental Audits		Assist	Assist		Own
Downer Internal Environmental Audits					Own
NCR/OFI register			Own		Assist
NCR/OFI closeout	Own	Assist	Assist	Assist	Assist
Management Plan Review	Own				
System Improvement Requests	Own				Assist
Subcontractor performance reviews	Own			Assist	Assist
HSE Monthly Group Report	Own				Assist

14 Management Procedures

14.1 Integrated Planning for Safety, Quality and Environmental Protection

The integrated process of planning for safety, quality and environmental protection is described below. This is outlined here with the safety planning aspects of this process discussed in more detail in later sections.



CONSTRUCTION PACK Planning

For Safety, Quality and Environmental Protection

14.2 Construction Pack Master Plan

The Construction Pack Master Plan will be created to break the work down into logical packages to allow for efficient delivery and management. These Construction Pack Master Plans are Site Specific. Every aspect of the project is to be covered by an approved Construction Pack prior to that element of site work starting.

Each Construction Pack will have a:

- Method Statement (MS)
- Inspection and Test Plan(ITP) and
- Job Safety and Environmental Analysis(JSEA)
- Handover Checklist
- Inspection and Test Record Pack(ITR)
- Asset Information Pack

This Construction Pack Master Plan will be reviewed and augmented periodically to ensure adequate coverage for upcoming activities and adequate "look ahead" to provide time for planning without delay to physical progress.

14.3 DRAFT Construction Pack

A DRAFT Construction Pack is created using the following sequence

1. A **Method Statement (MS)** is written/sketched describing the construction sequence as a detailed list of steps.
2. An **Inspection and Test Plan (ITP)** is drafted defining the relevant types of compulsory inspection and testing tasks required by the contract documents.
3. Then any remaining risks to product quality are identified, assessed and any resulting additional Inspection and Testing tasks are added to the ITP.
4. Next a **Job Safety and Environmental Analysis (JSEA)** form is created on which Environmental Hazards are identified, assessed and controls committed to. The preparation of this JSEA may dictate that additional activity specific environmental management plans are required.
5. Finally Health and Safety Hazards associated with the construction sequence and the quality assurance and environmental control tasks are identified, assessed and the hazard controls are add to the JSEA.

These documents are created by the Engineer assigned to the Construction Pack (Pack Engineer), in consultation with the responsible Supervisor (Pack Supervisor).

This DRAFT Construction Pack is then used as the starting point for the Methodology Workshop.

The DRAFT Construction Pack must clearly identify all preparatory work still to be completed.

14.4 Methodology Workshop

The Project Management and Supervision team meet with the objective of agreeing on the Construction Pack content. The full experience of the wider team (including the Quality and Environmental Managers and Safety Advisor) are utilised to challenge and improve the plan.

The DRAFT Construction Pack is reviewed in full including;

- Construction Methodology check
- Quality Assurance Activities check
- Environmental Hazard Analysis and Control Plan check
- Health and Safety Hazard Analysis and Control Plan check

Revisions to the DRAFT Method Statement are agreed at the conclusion of the workshop.

14.5 PRELIMINARY Construction Pack

As soon as the agreed revisions have been incorporated, the Construction Pack is signed off by the Project Manager, Pack Supervisor and Pack Engineer.

Then commitments to the procurement of subcontractors, plant and temporary works materials can commence.

Any need for training is to be identified at this point by the Site Supervisor and needs fulfilled prior to the work being undertaken.

During this period the following documents are prepared by the Pack Engineer to complete the readiness of Construction Pack documentation:

- Handover Checklist- this is simply a checklist of all information required for handover of the pack
- Inspection and Test Record Pack(ITR)- forms ready for completion
- Asset Information Pack- e.g. red-line drawing set for as-builting and RAMM forms ready for completion
- Any outstanding hazard control documentation such as Temporary Works Certificates, Lift Plans, Material Safety Data Sheets, Permits to Work etc…

A copy of the preliminary construction pack will be submitted to the Engineer (BBO) for comment prior to PM approval.

14.6 APPROVED Construction Pack

Ideally, the above planning tasks should be completed well ahead of the scheduled start of the construction package. To manage the risk that hazards have changed in the interim, and to more accurately identify risks associated with coordination with other site activities, the Construction Pack is reviewed at the weekly site planning meeting close to the time for construction to commence.

At this point the Pack Engineer signs off that all preparatory tasks identified in the DRAFT Construction Pack have been completed e.g. detailed Crane Lifting Plans, Temporary Works Certificates, Erosion and Sediment Control Plans, Construction Noise Control Plans etc....

Once accepted and signed off by the PM, the status of the Construction Pack is upgraded to APPROVED and the work on site can commence.

14.7 Construction Pack Briefing and Sign on.

All personnel who work on the Construction Pack are to be briefed on the Construction Pack Method Statement and JSEA prior to commencing work. They are then to sign on to the JSEA.

In addition all personnel who need to enter an active Construction Pack area of site are to read and sign-on to the relevant JSEA. This is in addition to the daily Job Start Briefing process.

When the JSEA is revised all personnel working or entering the area are to read and sign-on to the revised JSEA.

14.8 Job Start Briefing

Prior to the start of each shift, all personnel who are to work or enter a Construction Pack area are to receive a Job Start Briefing covering in detail their activities and hazards for the day. The Method Statement, ITP and JSEA will be used as the reference information for that briefing.

The briefing will include discussion of safety, quality and environmental protection aspects of the activities to be undertaken in that shift.

- Team members will have the opportunity to improve the hazard control elements of the plan
- All team members will sign on to the Job Start plan before they commence work.
- The work will then be performed in accordance with the Job Start Briefing, and the Approved Method Statement, ITP and JSEA.

When there is potential cross-over between Construction Pack activities that day, then a joint muster is to be held with the relevant teams covering the relevant hazards before each team breaks off to their usual briefing.

15 Managing Change

The Quality plan details procedures for identifying and managing any change in requirements. Any change in client or Downer requirements will result in a reassessment of the adequacy of the current Method Statement and its associated JSEA. This may result in a revision, including re-approval if judged appropriate.

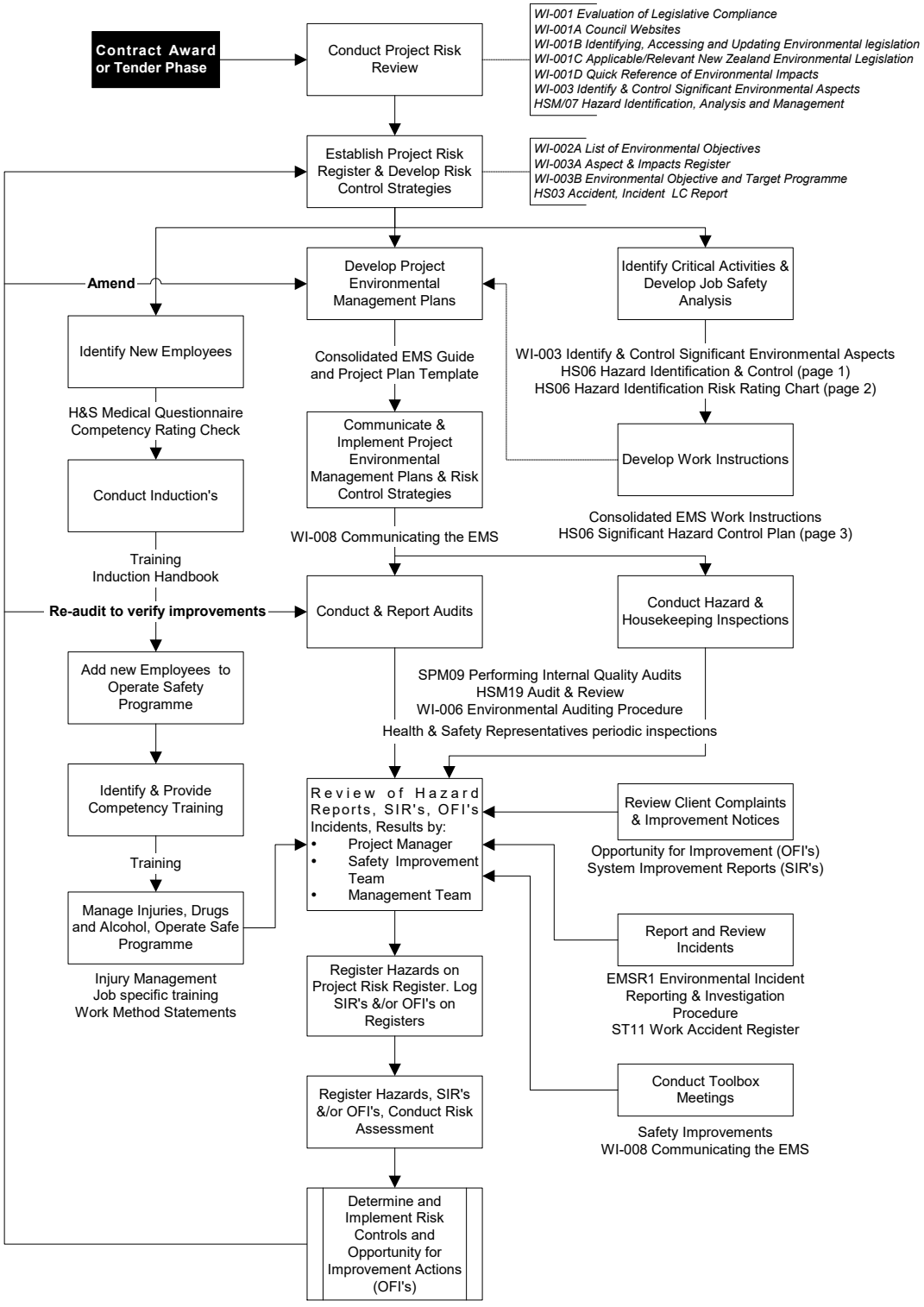
The Job Start Briefing will be held immediately prior to work being undertaken as another opportunity to recognise discrepancies between the plan and the reality on the day. The Job Safety and Environmental Analysis (JSEA) process undertaken at this time will adapt the plan for minor changes. However if the discrepancies are significant this may lead to the Construction Pack being placed on hold all documents can be revised to better reflect the hazards present.

16 Site Environmental Hazard Management

Site Environmental Management will be achieved through hazard identification, assessment and control planning.

The system includes an active regime of monitoring and evaluation activities, focused on driving the occurrence of environmental incidents to zero.

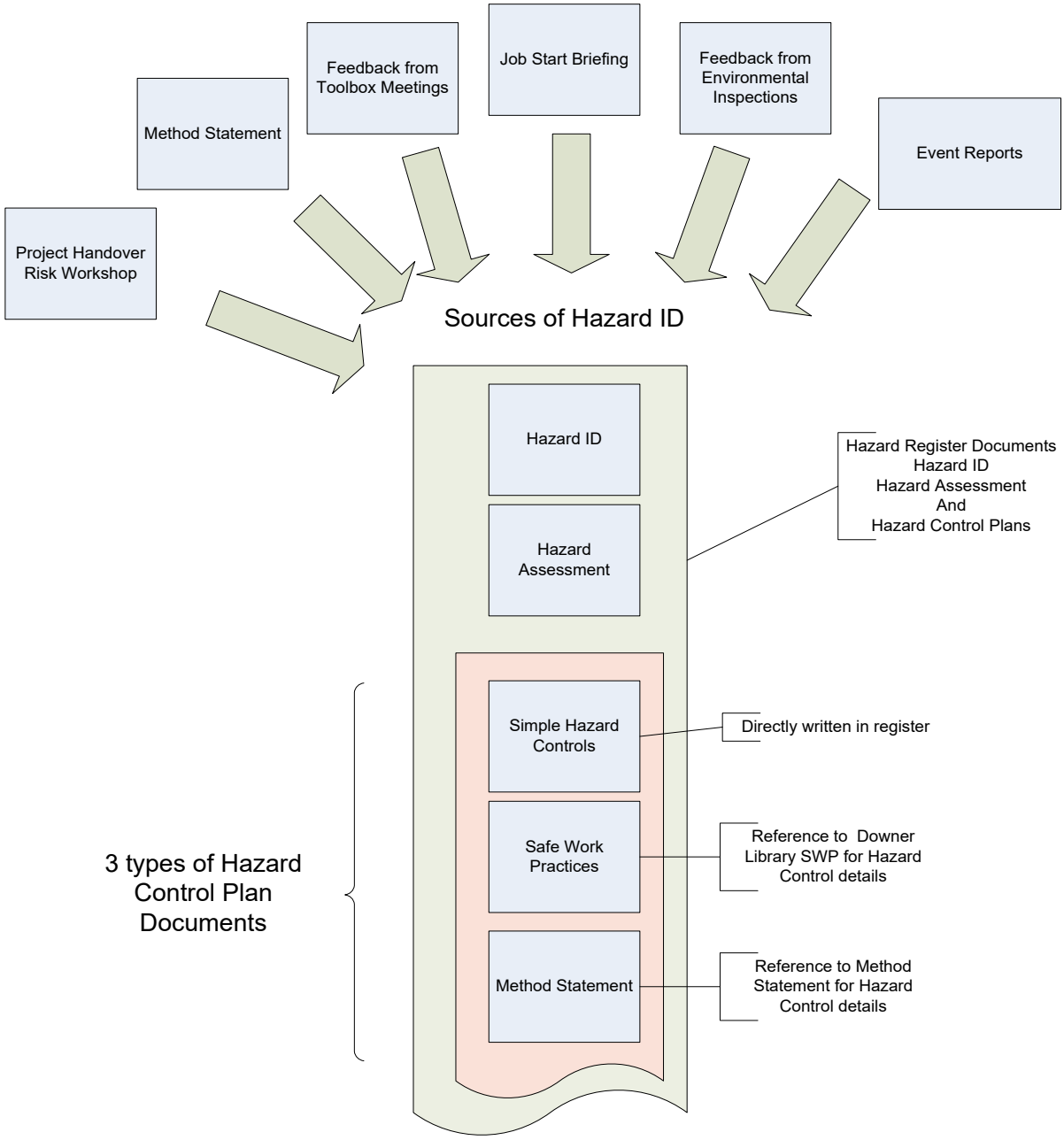
The details of this system are presented in the next sections of this plan.



16.1 Identification of Environmental Aspects and Impacts

The diagram below describes the Hazard Management Process. The majority of this process is embedded in the integrated process for planning Safety, Quality and Environmental

Protection, explained in an earlier section. Those elements are not discussed again here, whereas elements unique to Environmental Planning are explained below.



- Prior to contract commencement the information gained from the tender documentation and the Project Handover Risk Workshop will be used to establish and initial Site Environmental Hazard (Aspects and Impacts) Register. This register will list all identified environmental hazards, assessing their relative significance and nominating task or site specific or site-wide hazard controls.

- A Method Statement will then be prepared for each Construction Package and shall include a specific environmental hazard analysis to identify and manage further hazards. The Environmental Hazard (Aspects and Impacts) Register will be revised as needed.

- Prior to each shift the Job Start Briefing process will include a Job Environmental Analysis which may identify further hazards and controls. The Environmental Hazard Register will be revised as needed.

- Every person working on the site will be told in the site induction to report new environmental hazards to their manager as soon as possible. These new hazards will be tracked through the event reporting system and if significant through the NCR/OFI system.

In these ways the Environmental Hazard Register will become the master reference point for the further Method Statement creation and Job Start Briefings.

All aspects of the project which have been identified as having potential to cause significant environmental harm will have detailed hazard control actions included in the related method statements.

The key elements of the Hazard Register will be displayed on the Site Hazard Board to assist with visitor briefings and the Job Start briefing process.

16.2 Hazard Control Plans

Once hazards are identified and assessed, practicable hazard control plans must be put in place to eliminate, isolate or minimise the risk posed to personnel and the public.

These hazard controls can be specific to;

- The site
- The construction package
- The task

16.3 Typical Hazard Control Plan Guidance

Downer has resources available to assist with development of control plans for commonly encountered Environmental Hazards such as;

- Dust
- Erosion and Sediment
- Construction Noise
- Hazardous Substances

Resources for commonly encountered requirements in relation to these hazards are available as either "Green Pages" or Significant Hazard Control Plans.

In all cases the individual project-specific requirements defined in the applicable by-laws and resource consents must be understood and any solution designed to meet all of those requirements.

Downer has personnel trained in Environmental Management available to assist with the task of designing appropriate controls, contact the Systems Manager for advice.

17 Personnel

17.1 Site Environmental Induction

The Site Environmental Induction will include the following content to ensure the workforce is aware of the Site Environmental Management system and can fulfil their responsibilities;

Site specific induction topics will include:

- Downer Environmental Policy
- Obligations under the RMA Acts including hazard/aspects reporting
- Environmental Aspects (Hazards) and Controls
- Job Start Procedure
- Environmental Emergency Equipment Location
- Accident/ incident/ spill reporting and procedures
- Site environment and ecology briefing

All personnel, including subcontractors, will attend the induction prior to commencing work on this contract.

A signed induction/training register will be kept by the Site Supervisor in the site office.

17.2 Training and Competency

Suitable induction training and ongoing programmes of Environmental training will be maintained to ensure the affected employees and subcontractors are aware of:

- The importance of conformance with the environmental policy and procedures and with the requirements of the contract Environmental Plan and company procedures.
- The significant environmental hazards, actual or potential, of their work activities and the environmental benefits of improved personal performance.
- Their roles and responsibilities in achieving conformance with the environmental policy, company procedures and this plan.
- The potential consequences of departure from specified operating procedures.

The competency of staff is to be assessed based on training records, and known track record. Any need for training is to be identified by the Site Supervisor at the point they approve each Construction Package Method Statement and needs fulfilled prior to the work being undertaken, or alternative staff/resources employed.

- A competency register will be maintained by the project including subcontractor competencies for key disciplines and restricted activities; which will be reviewed on a quarterly basis.
- Subcontractors will also be required to provide evidence of competency, maintaining the update of a competency register for their staff onsite. Where a sub-contractor cannot supply formal evidence of competency related to environmental hazards rated H or M then onsite training will be carried against either established work instructions or in the absence of these, established Significant Hazard Control Plans.
- Supervisors will undertake reviews of all personnel, in the event where it is believed a person(s) require additional training to perform a task they will be supervised until they are signed off (on competency register) as being fully competent. Or their role will be modified to a position of suitable competence.

17.3 Supervision

The Site Supervisor will regularly monitor the work of staff to make sure the works are being performed in keeping with the Approved Method Statement. This monitoring is independent of the formal site safety inspection programme.

17.4 Toolbox Talks

Weekly Toolbox talks will be undertaken with the workforce. Some of these talks will be focused on specific environmental topics. This topic may be selected to allow the entire environmental system on site to be progressively covered over a series of meeting or may be selected in response to the results of site safety monitoring identifying a short-fall in behaviour. The topic may also be selected to focus on hazard management particularly relevant to upcoming work.

The talk will be attended by all available personnel and a record kept of the topic discussed and attendance.

17.5 Environmental Manager

Downer's Environmental Manager on the Project is Mike McConnell of McConnell Consultancy Ltd.

The Environmental Manager will:

- Advise measures to be taken in the interest of Environmental management.
- Inspect sites to identify hazards and report the findings with recommendations for minimisation, isolation or elimination.
- Investigate environmental incidents & report with recommendations for prevention.
- Supervise and monitor implementation of this Plan.
- Carry out random site inspections and report to the Project Manager.
- Assist employees in completing Environmental incident reports.
- Coordination of environmental and ecological management activities.
- Manage and monitor compliance with the EMMP

The EMs details will be shown on the site HSE noticeboard.

If appropriate to the work being undertaken, the Environmental Manager may appoint additional Site Environmental Representatives from the Subcontractor workforce.

17.6 Project Ecologist

Downer's Ecology Manager on the project is Simon Chapman of Ecology New Zealand Ltd.

The Ecology Manager will:

- Advise measures to be taken in the interest of Ecological management.
- Inspect sites to identify hazards and report the findings with recommendations for minimisation, isolation or elimination.
- Investigate environmental incidents & report with recommendations for prevention.
- Supervise and monitor implementation of this Plan.
- Manage wildlife permit requirements and coordination of activities
- Manage and monitor compliance with the EMMP

If appropriate to the work being undertaken, the Ecology Manager may appoint additional Site Environmental Representatives from the Subcontractor workforce.

17.7 Staff Disciplinary Procedures

Disciplinary procedures are outlined in the Company's policy and procedure manuals. These are adopted for use on this contract.

Any employee or sub-contractor who commits a serious breach of Environmental Consents and Permits may be liable to summary dismissal/cancellation of contract and Downer will pursue the subcontractor for losses incurred as a result of the breach(s).

17.8 Recognition

Exemplary safety or environmental behaviour will be regularly recognised at both a site-wide and individual level. Nominees for individual recognition will be sought from the workforce and management team.

18 Equipment

Upon the delivery of any plant and machinery it will undergo a pre-start inspection to ensure it is fit for purpose. Pre start checks will be carried out by the operators daily. Any defects noted are to be reported immediately to the Site Supervisors providing the Vehicle Daily Pre-start form. Supervisors are to make an informed decision whether the plant is safe for use or should be removed from service awaiting repair. If the equipment is classed unfit it will be made safe by locking, removing keys and clearly tagging the plant item to be out of service - not safe to use.

A safe-for-use windscreen sticker or similar identifier will be applied following successful completion of a pre-start inspection.

18.1 Spill Kits

All required spill kits will be made available to Downer employees. Subcontractors are to supply their own spill kits. Personnel are to keep the equipment at hand and in a serviceable condition.

The type and number of spill kits will be determined by the specific activity taking place and the location of that site.

Details of Spill Contingency measures are detailed in the Spill Contingency Plan attached as Appendix G.

18.2 Plant Selection

The selection of plant and equipment shall be included in the Method Statement creation process to ensure this is done by personnel with adequate knowledge and experience. The specification and selection is to include consideration of environmental aspects and impacts such as fuel efficiency and potential hazard. Subcontractor Controls

Prior to engaging Subcontractors they will supply previous Environmental records, and their current environmental systems will be reviewed to establish reasonable grounds to believe they are competent. In addition all subcontractors will be contractually bound to comply with all Downer site environmental requirements including the Job Start Briefing process.

Prior to commencing work on site, Sub-contractors will be required to provide a register identifying staff competency levels and training received.

Sub-contractors will be inducted onto site, notified of the known environmental aspects on site, the emergency procedures and site environmental plans. They will be responsible for doing the same to their subcontractors and labour hire personnel. Site Management, HSR`s and employees all share responsibility for monitoring the environmental awareness practices of our subcontractors.

Subcontractor work is included in site environmental inspection activities.

Appendices

Appendix N Key Contacts

Key Project Contacts

Site Office		Phone	email
Client HCC	Tahl Lawrence	xx	Tahl.Lawrence@hcc.govt.nz
Engineer BBO	Jeremy Gibbons	027 223 5343	jgibbons@bbo.co.nz
Downer Project Manager	Craig Lingard	027 492 0907	craig.lingard@downer.co.nz
Downer Project Director	Toby Davies	0211957148	toby.davies@downer.co.nz
Downer Environmental Manager	Mike McConnell	0274838923	mike@mcconnellconsultancy.co.nz
Downer Stakeholder Manager	Victoria Cooper	022 106 5867	Victoria.cooper@downer.co.nz
Downer Safety Manager	xx	xx	xx
Waikato Regional Council	Pollution Hotline	0800 800 401	
Iwi Liasion	Marina Hape	022 451 7461	marinahape@gmail.com
HCC Local Water Services	Evan Vaughters	07 838 6699	evan.vaughters@hcc.govt.nz
HCC EMMP	Nathanael Savage	07 838 6527	nathanael.savage@hcc.govt.nz
HCC Communications	Aimee Burness	07 974 0573 or 027 808 8959	aimee.burness@hcc.govt.nz
HCC Environmental	Clare Barton	022 674 7934	Clare.barton@hcc.govt.nz
WRC Resource Consents	Brian Richmond	07 859 0541 or 021 269 821	brian.richmond@waikatoregion.govt.nz
WRC Resource Consents	Brendan Hunt	021 874 219	Brendan.Hunt@waikatoregion.govt.nz

WRC Resource Consents	Richard Duirs	027 232 3112	Richard@wainuienvironmental.co.nz
Archaeologist	Warren Gumbley	07 856 9071 or 027 471 2165	warren@archaeologist.co.nz
BBO Property	Steve Bigwood	07 834 8523 or 027 459 5606	sbigwood@bbo.co.nz
IBEX Lighting	Jeremy Strickett	021 220 1293	jeremys@ibexlighting.com
Tuatahi	Russell Gibson	027 485 3218	russell.gibson@ultrafast.co.nz
WEL	Jason Edwards	07 850 3743 or 027 807 5880	jason.edwards@wel.co.nz
First Gas (Technical)	Mohamad Fikri	027 236 6029	Mohamad.Fikri@firstgas.co.nz
First Gas (Admin)	Paul Bird	027 531 0060	Paul.Bird@firstgas.co.nz
Chorus (Design)	Anton McDonald	021 197 5658	Anton.McDonald@downer.co.nz
Chorus (Existing services)	Sean Connor	N/A	Sean.connor@ucg.co.nz
Chorus (Admin)	Bruce Davidson	027 483 4800	Bruce.davidson@chorus.co.nz

Appendix N Consent Conditions and Compliance Table

WRC Resource Consent Conditions			
Schedule One – General Conditions			
The granting of resource consents for the Whatukooruru Drive – Peacockes Road project is subject to the following general conditions that shall apply to each individual consent (AUTH144460.01.01- AUTH144460.08.01). If there are any conflicting requirements, the most stringent requirement shall apply unless otherwise agreed in writing by the Waikato Regional Council.			
	GENERAL		
1	Except as modified by the consent conditions below and as stipulated in each individual resource consent, the activities authorised by this resource consent shall be undertaken in general accordance with the application for these resource consents received by the Waikato Regional Council on 11 April, 2022 and all supporting information except where otherwise required in the resource consent conditions. Where there is any discrepancy between the application documents and the resource consent conditions then the conditions below shall prevail.		This Plan CEMP
2	The consent holder shall appoint a representative(s) prior to commencement of any works authorised by this resource consent, who shall be the Waikato Regional Council's principal contact person in regard to matters relating to this consent. The consent holder shall inform the Waikato Regional Council of the representative's name and how they can be contacted prior to this consent being exercised. Should that person(s) change during the term of this resource consent, the consent holder shall immediately inform the Waikato Regional Council and shall also give written notice to the Waikato Regional Council of the new representatives name and how they can be contacted.		This Plan CEMP
3	The consent holder shall be responsible for all contracted operations relating to the exercise of this resource consent, and shall ensure contractors are made aware of the conditions of this consent and ensure compliance with those conditions.		This Plan CEMP
4	A copy of this resource consent shall be kept onsite at all times that the works authorised by this consent are being undertaken, and shall be produced without unreasonable delay upon request from a servant or agent of the Waikato Regional Council.		This Plan CEMP
	PRE-WORKS REQUIREMENTS		
5	The consent holder shall inform the Waikato Regional Council in writing, at least 10 working days prior to commencement of any works, of the start date of the works authorised by this resource consent.		This Plan CEMP

6	The consent holder shall arrange and conduct a pre-construction site meeting and invite with a minimum of 10 working days notice, the Waikato Regional Council, the site representative nominated under condition 2 of this consent, the contractor, and any other party representing the consent holder prior to any works authorised by this consent commencing on the site.	Advice Note: In the case that any of the invited parties, other than the site representative does not attend this meeting, the consent holder will have complied with this conditions, provided the invitation requirements is met.	This Plan CEMP
	WINTER WORKS		
7	The earthworks/soil disturbance/streamworks activities authorised by this resource consent shall not be carried out during the winter period 1st May to 30th September inclusive in any year that this consent is current unless authorised by the Waikato Regional Council as per condition 9.		Appendix F ESCP
8	The consent holder shall ensure that the site is appropriately stabilised by 30 April of each year unless otherwise approved in writing by the Waikato Regional Council. Stabilisation shall be undertaken by providing adequate measures (vegetative and/or structural and including, pavement, metalling, hydroseeding, revegetating and mulching) that will minimise erosion of exposed soil to the extent practicable.		Appendix F ESCP
9	Requests to undertake earthworks/srteamworks during the period 1st May to 30th September inclusive shall be submitted in writing to the Waikato Regional Council by 1st April, and shall be in the form of amendments to the approved Erosion and Sediment Control Plan.	Advice Note: In considering a request for the continuation of winter works, the Waikato Regional Council will consider a number of factors; including: • the nature of the site and the winter soil disturbance works proposed; • the quality of the existing/proposed erosion and sediment controls; • the compliance history of the site/operator; • seasonal/local soil and weather conditions; • sensitivity of the receiving environment; and • any other relevant factor.	Appendix F ESCP
	EROSION AND SEDIMENT CONTROL		

10	At least 10 working days prior to the commencement of earthworks within any part of the site, the consent holder shall provide the Waikato Regional Council with a finalised Erosion and Sediment Control Plan (E&SCP). The objective of the E&SCP shall be to minimise sediment discharge from the site to the extent practicable over the earthworks period.		Appendix F ESCP
11	The E&SCP shall as a minimum be based upon and incorporate those specific principles and practices which are appropriate for the activity authorised by this consent and contained within the Waikato Regional Council document titled "Erosion and Sediment Control – Guidelines for Soil Disturbing Activities" (Technical Report No. 2009/02 – dated January 2009), and shall include at least the following; a) Details of all principles, procedures and practices that will be implemented to undertake erosion and sediment control to minimise the potential for sediment discharge from the site; b) The design criteria and dimensions of all key erosion and sediment control structures; c) A site plan of a suitable scale to identify; i. The locations of waterways; ii. The extent of soil disturbance and vegetation removal; iii. Any "no go" and/or buffer areas to be maintained undisturbed adjacent to watercourses; iv. Areas of cut and fill; v. Locations of topsoil stockpiles; vi. All key erosion and sediment control structures; vii. The boundaries and area of catchments contributing to all stormwater impoundment structures; viii. The locations of all specific points of discharge to the environment; and ix. Any other relevant site information. d) Construction timetable for the erosion and sediment control works and the bulk earthworks proposed; e) A detailed staging plan and methodology for the works including details of staging of the works and of how the extent of exposed works will be minimised on site; f) Details of specific measures that will be implemented to maximise the use of infiltration of earthworks runoff within the earthworks catchment areas where site conditions allow to minimise loading on sediment control devices (e.g runoff containment, sediment pits, SRP g) invert ripping etc); h) Timetable and nature of progressive site rehabilitation and re-vegetation proposed; i) Maintenance, monitoring and reporting procedures; j) Rainfall response and contingency measures including procedures to minimise adverse effects		Appendix F ESCP

	in the event of extreme rainfall events and/or the failure of any key erosion and sediment control structures; k) Procedures and timing for review and/or amendment to the E&SCP; and l) Identification and contact details of personnel responsible for the operation and maintenance of all key erosion and sediment control structures. The E&SCP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by this consent commencing and the consent holder shall undertake all earthworks authorised by this consent in accordance with the approved E&SCP.		
12	Any changes proposed to the E&SCP shall be confirmed in writing by the consent holder and approved in writing by the Waikato Regional Council acting in a technical certification capacity, prior to the implementation of any changes proposed.		Appendix F ESCP
13	The consent holder shall ensure that a copy of the approved E&SCP, including any approved amendments, is kept onsite and this copy is updated within 5 working days of any amendments being approved.		Appendix F ESCP
14	Prior to bulk earthworks commencing on any area, the consent holder shall submit to the Waikato Regional Council a certificate signed by an appropriately qualified and experienced engineer to certify that the erosion and sediment controls have been constructed in accordance with the approved erosion and sediment control plans and in accordance with the document titled "Erosion and Sediment Control Guidelines for Soil Disturbing Activities January 2009". Certified controls shall include any sediment retention pond, decanting earth bunds, silt fences and diversion channels/bunds. The certification for these measures shall be supplied within five working days of completion of construction of those measures. Information supplied if applicable shall include: a) Contributing catchment area; and b) Retention volume of structure (dead storage and live storage measured to the top of the primary spillway); and c) Shape and dimensions of structure; and d) Position of inlets/outlets; and e) Stabilisation of the structure; and f) Compliance with the Waikato Regional Council document titled "Erosion and Sediment Control Guidelines for Soil Disturbing Activities January 2009" (Technical Report No. 2009/02); and g) Compliance with any relevant conditions of this consent	Advice Note: An example template and the information required for the As Built Certification Statements can be found on the Waikato Regional Council website.	Appendix F ESCP
15	The consent holder shall ensure that all sediment laden run-off from the site is treated by sediment retention		Appendix F

	structures. These structures are to be fully operational before bulk earthworks commence and shall be maintained to perform at least at 80% of their full operational capacity.		ESCP
16	The consent holder shall ensure that all clean water run-off from stabilised surfaces including catchment areas above and around the site shall be diverted away from the earthworks area via a stabilised diversion system.		Appendix F ESCP
17	The consent holder shall ensure that all runoff diversion systems are designed and installed to convey flows from contributing catchment areas up to the 20% AEP rainfall event plus 300mm of freeboard without overtopping and shall also ensure that these systems incorporate adequate protection against erosion where required.		Appendix F ESCP
18	The consent holder shall ensure that all erosion and sediment controls are inspected and in good working order prior to, and immediately after rain events. The consent holder shall further ensure that all erosion and sediment controls are maintained such that optimal sediment capture efficiency is achieved at all times.		Appendix F ESCP
19	The consent holder shall construct a stabilised construction entrance at the site entrance point and shall manage all traffic leaving the site to prevent the tracking of sediment onto the public road surface.		Appendix F ESCP
20	In the event that any persistent sediment tracking effects are identified, the consent holder shall install an appropriate wheel wash facility to prevent any ongoing effects.		Appendix F ESCP
21	The erosion and sediment controls specified in the Erosion and Sediment Control Plan, shall not be disestablished without the prior written approval of the Waikato Regional Council, acting in a technical certification capacity.		Appendix F ESCP
	FLOCCULATION		
22	All decanting earth bunds and sediment retention ponds established on site in accordance with the approved E&SCP shall incorporate a suitable rain activated flocculant dosing system unless otherwise approved by the Waikato Regional Council.		Appendix G FMP
23	Prior to the commissioning of any flocculation treatment system, the consent holder shall provide the Waikato Regional Council with a Flocculation Management Plan (FMP), for the written approval of the Waikato Regional Council. The FMP shall include as a minimum: a) Specific design details for the flocculation system; b) Monitoring, maintenance (including post-storm) and including a record system; c) Details of optimum dosage (including assumptions);		Appendix G FMP

	d) Results of any initial flocculation trial; e) Batch dosing methodology; f) A spill contingency plan; and g) Contact details of the persons responsible for the operation and maintenance of the flocculation treatment system and the organisational structure to which this person shall report. The FMP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by these consents commencing. Any changes proposed to the approved FMP shall be confirmed in writing by the consent holder and approved in writing by the Waikato Regional Council acting in a technical certification capacity, prior to the implementation of any changes proposed.		
	MONITORING AND MAINTENANCE		
24	The consent holder shall ensure that the erosion and sediment controls at the site are inspected a minimum of once per week and within 24 hours of each rainstorm event that is likely to impair the function or performance of the controls.		Appendix F ESCP
25	The consent holder shall carry out monitoring and maintenance of erosion and sediment controls in accordance with the conditions of this consent and shall maintain records detailing; a) The date, time and results of the monitoring undertaken; and b) The erosion and sediment controls that required maintenance; and c) The time when the maintenance was undertaken; and d) The type of maintenance carried out. These records shall be provided to the Waikato Regional Council on request		Appendix F ESCP
	SAMPLING		
26	If requested in writing by the Waikato Regional Council the consent holder shall take samples of the discharges from all sediment control devices on the site a minimum of once per month and after all rainfall events greater than 20 millimetres in the preceding 24 hours, excepting times when there are no discharges. The consent holder shall take the samples within four hours of becoming aware of a rainfall event greater than 20 millimetres in the preceding 24 hours.		Appendix G FMP
27	Within one working day of taking any samples required, the consent holder shall have those samples analysed for suspended solids and turbidity. The results of the analysis shall be forwarded to the Waikato Regional Council within 5 days of analysis.		Appendix G FMP

28	The concentration of suspended solids in the downstream watercourses shall not exceed 150 grams per cubic metre suspended solids concentration as a result of the exercise of this consent. This standard shall apply, except where the suspended solids concentration in the named water body, unaffected by the activity, is greater than the standard specified. When the concentration of suspended solids in the named water body, unaffected by the activity, exceeds 150 grams per cubic metre then there shall not be any increase in the suspended solids concentration in the named water body as a result of activities authorised by this consent.	Advice Note: When assessing compliance with this condition a minimum of three water samples should be collected: (a) upstream and unaffected by the activities authorised by this consent; (b) the point source discharge from the activities authorised by this consent; and (c) downstream after reasonable mixing.	Appendix G FMP
29	The consent holder shall ensure that the soluble aluminium concentration of any discharge from a sediment retention pond flocculated in accordance with a Flocculation Management Plan approved in accordance with condition 23, shall not exceed 0.2 grams per cubic metre.		Appendix G FMP
30	The consent holder shall ensure that the pH of any discharge from a sediment retention pond flocculated in accordance with a Flocculation Management Plan approved in accordance with condition 23, shall not be less than 5.5 or greater than 8.5 pH units		Appendix G FMP
31	Any sampling required by this resource consent, the frequency of sampling, analyses and reporting may be altered or reduced with the written agreement of the Waikato Regional Council.		Appendix G FMP
	DUST		
32	All earthworks activities carried out on site shall be conducted and managed in such a manner as to ensure that all dust and particulate emissions are kept to a practical minimum to the extent that there are no dust discharges beyond the boundary of the site that cause an objectionable effect.		Appendix D DMP
33	The consent holder shall ensure that, at all times, the soil moisture of exposed areas is maintained at sufficient levels, under prevailing wind conditions, to prevent dust generated by normal earthmoving operations from remaining airborne beyond the boundary of the work site.		Appendix D DMP
34	The consent holder shall ensure that, outside of normal working hours, staff are available on-call at all times to operate the water application system for dust suppression.		Appendix D DMP
35	If so required by the Waikato Regional Council, the consent holder carry out immediate sealing of any problematic dust generating surfaces within the site using hydro-seed/hydro-mulch, polymer soil stabilisers or a similar dust control product to provide instant remediation of any areas to prevent any ongoing dust effects.		Appendix D DMP

36	The consent holder shall provide the Waikato Regional Council with a detailed Dust Management Plan (DMP), at least 10 working days prior to the commencement of activities authorised by this consent. The objective of the DMP shall be to outline the site management methods to ensure that compliance with conditions 32 to 35 is achieved throughout the earthworks and as a minimum shall address the following items: a) Confirmation of the parties responsible for dust management throughout the works; b) Detailed monitoring methods for weather/soil conditions to ensure that any periods of elevated dust risk are appropriately anticipated and managed; c) Finalised works staging plan to ensure exposed surfaces at any one time are minimised in accordance with the requirements of this consent; d) Proposed dust control methods to ensure damp ground conditions can be maintained within the site during high dust risk periods; e) Confirmation of a suitable capacity water supply for dust suppression; f) Methods for managing dust risk outside of standard working hours e.g weekends; g) Contingency methods for controlling any identified dust effects e.g cease works/site stabilisation; and h) Protocols for responding to and addressing any dust complaints received. The DMP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works authorised by this consent commencing and the consent holder shall undertake all earthworks authorised by this consent in accordance with the approved DMP.		Appendix D DMP
	MACHINERY		
37	All earthmoving machinery, pumps and generators shall be operated in a manner which ensures that spillages of fuel, oil and similar contaminants are prevented, particularly during refuelling and machinery servicing and maintenance. Refuelling and lubrication activities shall be carried out away from any surface water such that any spillage can be contained and does not enter any surface water.		This Plan CEMP
38	Prior to entering the site all machinery shall be appropriately cleaned and inspected to minimise any 'containment and/or 'eradication' plant pest species being introduced to the site.	Advice Note: For the purposes of this condition, 'containment' and 'eradication' plant pest species are those species that are listed as such in the Waikato Regional Pest Management Strategy	This Plan CEMP

		2014-2024, or any subsequent version of that publication that is published after the granting of this resource consent.	
	STABLISATION / REHABILITATION		
39	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. The consent holder shall monitor and maintain the site until vegetation is established to such an extent that it prevents erosion and prevents sediment from entering any watercourse.		Appendix F ESCP
40	The discharge of untreated surface runoff from any area where soil has been disturbed as a result of the exercise of this resource consent shall only occur after consultation and the prior written approval of the Waikato Regional Council acting in a technical certification capacity. In this regard, the main issues that will be considered by the Waikato Regional Council include: a) The quality of the stabilisation and/or covering vegetation; b) The quality of the water discharged from the rehabilitated land; and c) The quality of the receiving water.		Appendix F ESCP
41	If so required by the Waikato Regional Council, the consent holder shall carry out immediate stabilisation of any required area of exposed earthworks surfaces on site using straw mulching, pinned geotextile or similar instant stabilisation techniques to prevent any potential adverse sediment or dust effects.		Appendix F ESCP
	ARCHEOLOGICAL / CULTURE		
42	The consent holder shall ensure that the exercise of this resource consent does not disturb any sites of archaeological value or of cultural significance to Tangata Whenua. In the event of any archaeological artefacts being discovered the works shall, in the vicinity of the discovery, cease immediately and the Waikato Regional Council, Heritage New Zealand and the project Tangata Whenua Working Group (where artefacts are of maori origin) shall be notified within 24 hours. Works may recommence on the written approval of the Waikato Regional Council after considering: a) Tangata Whenua interests and values; b) Protocols agreed upon by Tangata Whenua and the consent holder; c) The consent holders interests; d) Any Heritage NZ authorisations; and e) Any archaeological or scientific evidence.	Advice Note – The consent holder is reminded of the need to comply with the requirements of any Archaeological Authorities issued by Heritage New Zealand over the duration of the earthworks activities in accordance with the provisions of the Heritage NZ Pouhere Taonga Act.	HCC Heritage and Archaeological Site Management Plan Not appended to this document

	CLEANFILL		
43	The consent holder shall ensure that any importation of fill from off-site sources must meet the definition of cleanfill as defined by the Waikato Regional Plan. Cleanfill deposition authorised by this consent shall comprise placement of quarry sourced aggregate or sand material or virgin soil material sourced from a location which has been confirmed as free of soil contamination risks and shall exclude: a) material that has combustible, putrescible or degradable components b) materials likely to create leachate by means of biological or chemical breakdown c) any products or materials derived from hazardous waste treatment, hazardous waste stabilisation or hazardous waste disposal practices d) materials such as medical and veterinary waste, asbestos, or radioactive substances that may present a risk to human health; and e) soils or other materials contaminated with hazardous substances or pathogens.		This Plan CEMP
44	To ensure that all material imported to site meets the cleanfill definition as outlined within condition 43, the consent holder shall undertake routine monitoring of all fill material imported to site and shall maintain records of the source, type and volume of all cleanfill material. These records shall be made available to the Waikato Regional Council upon request.		This Plan CEMP
	CONTAMINATED SOIL		
45	In the event that any areas of contaminated soil are discovered during the earthworks activities which require remediation, the consent holder shall provide the Waikato Regional Council with copies of the Detailed Site Investigation, Remedial Action Plan and Site Validation Report for the identified areas of contamination.		Appendix E HSMP
	DEWATERING		
46	At least 10 working days prior to the commencement of any construction watertake/dewatering activities from within any site excavation or drilling area, the consent holder shall provide the Waikato Regional Council with a Dewatering Management Plan (DWMP). The objective of this plan shall be to outline the measures that will be implemented throughout any dewatering activities to ensure that they do not result in the discharge of contaminants (including sediment) to the downstream receiving environment to the greatest extent practicable over the works period and shall include but not be limited to:		Appendix H DeMP

	a) Proposed intake control measures to minimise the abstraction of sediment contaminated water or benthic muds; b) Proposed treatment methods if required to improve the water quality prior to discharge to avoid the discharge of contaminants (including sediment) to the receiving environment; c) Outlet erosion protection measures to prevent erosion or scour effects at the point of discharge. The DWMP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any watertake activities commencing and the consent holder shall undertake all dewatering activities in accordance with the approved DWMP.		
	STREAMWORKS MANAGEMENT PLAN		
47	At least 10 working days prior to the commencement of any construction activities within the bed, banks or riparian margins of the Eastern Tributary of the Mangakotukutuku Stream, the consent holder shall provide the Waikato Regional Council with a finalised Streamworks Management Plan (SMP). The objective of the SMP shall be to both minimise any discharge of contaminants from the works into the watercourses to the greatest extent practicable and to provide the specific details of any temporary structures to be placed within the bed of the watercourses and shall include but not be limited to: a) A detailed works methodology including timing for any planned watercourse works; b) Detailed plans of any erosion and sediment control measures to be implemented for the watercourse works including bed/bank stabilisation methods; c) Methods to manage any other potential contaminants from entering river/stream flows including but not limited to hydrocarbons and cement derived contaminants; d) Details of any temporary structures to be placed within the bed of a watercourse including the location, dimensions, construction materials and installation methods for the structure; and e) Any required ecological management methods associated with the watercourse works. The SMP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works within the bed, banks or riparian margins of the Eastern Gully Stream commencing and the consent holder shall undertake all works authorised by these consents in accordance with the approved SMP.		Appendix I SMP
	FISH MANAGEMENT PLAN		

48	At least 10 working days prior to the commencement of any construction activities within the bed of the Eastern Tributary of the Mangakotukutuku Stream, the consent holder shall provide the Waikato Regional Council with a finalised Fish Management Plan (FMP) which outlines proposed methods for capture and transfer of any fish from any areas of flowing or standing water, prior to and during the stream channel disturbance activities.53 Doc # Page 76 The FMP shall be approved in writing by the Waikato Regional Council acting in a technical certification capacity prior to any works within the bed of the Eastern Gully Stream commencing and the consent holder shall undertake all works authorised by these consents in accordance with the approved FMP.		Appendix J FiMP
	ECOLOGICAL MANAGEMENT / MITIGATION		
49	The consent holder shall implement the requirements of the Hamilton City Council certified Southern Links Ecological Management and Monitoring Plan in accordance with the methods and timeframes established within the approved EMMP document.		HCC Ecological Management and Monitoring Plan Not appended to this document
50	A Gully Enhancement Plan (GEP) shall be prepared for the detailed design and implementation of the gully habitat enhancement plantings to be undertaken within the gully areas within the site as outlined on the preliminary planting plans titled 'General Overview Plan Landscape Proposals' prepared by BBO dated 11 April, 2022 and 1 August, 2022 being drawing numbers 146000-002A6101, 146000-002A-6102 and 146000-002A-6901. The GEP shall include details for the proposed gully enhancement planting works to be undertaken within both the Mangakotukutuku Stream and Eastern Tributary Stream gullies within the site including for the following areas: • Mangakotukutuku Stream – All gully slope areas and gully floor margins as outlined on drawing number 146000-002A-6101; • Eastern Tributary Stream – All gully slope areas, gully floor margins, gully floor wetlands and riparian stream margins as outlined on drawing number 146000-002A-6102 and 146000- 002A-6901; The GEP shall include the detailed design and management methods to be implemented to ensure the successful establishment of the gully enhancement plantings within these areas and shall include but not be limited to: i. Site planting plans including species to be planted, size of plants, planting zones/areas, density of planting, sourcing of plants and fertilising; ii. Site preparation for planting including weed and pest control; iii. Timeline for planting; iii. Ongoing weed and pest control; iv. Infill/replacement planting methods and specifications;		Appendix K GMP

	v. Timing (frequency and duration) of monitoring and maintenance inspections/activities; and vi. Methods to ensure that the plantings are protected and retained in perpetuity. The GEP shall be submitted to the Waikato Regional Council for approval at least 10 working days prior to the commencement of any streamworks or wetland disturbance activities occurring within the site. Implementation of the GEP shall commence within the first planting season following completion of the streamworks/wetland disturbance activities and shall continue until all enhancement plantings are established to a self sustaining level unless otherwise agreed with the Waikato Regional Council.		
	REVIEW		
51	The Waikato Regional Council may at any time within the first 6 months of this consent being exercised, and every 2 years thereafter for the duration of these consents, serve notice on the consent holder under section 128(1) of the Resource Management Amendment Act (1991), of its intention to review the conditions of this resource consent for the following purposes: a) Require the consent holder to adopt the best practical option to remove or reduce any adverse effect on the environment, or b) To deal with any other adverse effect on the environment that the exercise of this consent may have an influence, or c) To review monitoring requirements to determine any actual or potential adverse effect on the environment.	Advice Note: Costs associated with any review of the conditions of this resource consent will be recovered from the consent holder in accordance with the provisions of section 36 of the Resource Management Act 1991.	This Plan CEMP

Advice Notes	
This resource consent does not give any right of access over private or public property. Arrangements for access must be made between the consent holder and the property owner.	
Where any of the consent conditions refer to the Waikato Regional Council, this can be taken to comprise the allocated Waikato Regional Council Compliance Monitoring Officer for the project or any other Waikato Regional Council staff member as identified by the Waikato Regional Council at the time of the condition implementation.	
This resource consent is transferable to another owner or occupier of the land concerned, upon application, on the same conditions and for the same use as originally granted (s.134-137 RMA). The transfer of water, including changes of location, may occur as provided for in Chapter 3.4 of the Waikato Regional Plan, subject to the requirements of those rules.	
The consent holder may apply to change the conditions of the resource consent under s.127 RMA.	

The reasonable costs incurred by Waikato Regional Council arising from supervision and monitoring of this/these consents will be charged to the consent holder. This may include but not be limited to routine inspection of the site by Waikato Regional Council officers or agents, liaison with the consent holder, responding to complaints or enquiries relating to the site, and review and assessment of compliance with the conditions of consents.	
Note that pursuant to s332 of the RMA 1991, enforcement officers may at all reasonable times go onto the property that is the subject of this consent, for the purpose of carrying out inspections, surveys, investigations, tests, measurements or taking samples.	
If you intend to replace this consent upon its expiry, please note that an application for a new consent made at least 6 months prior to this consent's expiry gives you the right to continue exercising this consent after it expires in the event that your application is not processed prior to this consent's expiry.	

RC AUTH144460.01.01 – Land use – Disturbance			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP
2	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		This Plan CEMP

RC AUTH144460.02.01 – Take Groundwater			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP
2	The daily combined take volume authorised by this consent (AUTH144460.02.01) and consent AUTH144460.03.01 must not exceed 1,000 cubic metres.		Appendix H DeMP
3	Any water taken in accordance with this consent shall not be subject to any usage for construction purposes or any other activities within the site and shall be discharged immediately to the receiving environment directly below the point of take following appropriate treatment (if required).		Appendix H DeMP
4	The watertake activities including any associated discharge of water shall be undertaken in accordance with the Dewatering Management Plan required by condition 46 of Schedule 1.		Appendix H DeMP
5	A water measuring system must quantify the volume of water taken on a continuous basis. The system must have a reliable calibration to flow and must be maintained to an accuracy of +/- 5%. Prior to first commencing to take groundwater under this consent, evidence of the water measuring system's calibration to an accuracy of +/- 5% must be provided to the Waikato Regional Council.		Appendix H DeMP
6	Additional calibration of the water measuring system to ensure that the water measuring system has an accuracy of +/- 5% must be undertaken by the consent holder at the written request of the Waikato Regional Council. Evidence documenting each respective additional calibration must be forwarded to the Waikato Regional Council within one month of the calibration being completed.		Appendix H DeMP
7	The consent holder must maintain a continuous record of water taken through this consent (AUTH144460.02.01) in combination with consent AUTH144460.03.01. The record must: a) Specify the date on which the record was taken; b) Include total daily volume of water abstracted (m3); c) Include cumulative total of water abstracted (m3); d) Specify zero values when no water is being taken; e) Include pumping hours per day; f) Be reported to Waikato Regional Council via email within the first 10 working days of each month for the preceding month.		Appendix H DeMP
8	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge		This Plan

	prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		CEMP

AUTH144460.03.01 – Take Surface Water			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP
2	The daily combined take volume authorised by this consent (AUTH144460.03.01) and consent AUTH144460.02.01 must not exceed 1,000 cubic metres.		Appendix H DeMP
3	Any water taken in accordance with this consent shall not be subject to any usage for construction purposes or any other activities within the site and shall be discharged immediately to the receiving environment directly below the point of take following appropriate treatment (if required).		Appendix H DeMP
4	The watertake activities including any associated discharge of water shall be undertaken in accordance with the Dewatering Management Plan required by condition 46 of Schedule 1.		Appendix H DeMP
5	A water measuring system must quantify the volume of water taken on a continuous basis. The system must have a reliable calibration to flow and must be maintained to an accuracy of +/- 5%. Prior to first commencing to take groundwater under this consent, evidence of the water measuring system's calibration to an accuracy of +/- 5% must be provided to the Waikato Regional Council.		Appendix H DeMP
6	Additional calibration of the water measuring system to ensure that the water measuring system has an accuracy of +/- 5% must be undertaken by the consent holder at the written request of the Waikato Regional Council. Evidence documenting each respective additional calibration must be forwarded to the Waikato Regional Council within one month of the calibration being completed.		Appendix H DeMP
7	The consent holder must maintain a continuous record of water taken through this consent (AUTH144460.03.01) in combination with consent AUTH144460.02.01. The record must: a) Specify the date on which the record was taken; b) Include total daily volume of water abstracted (m3); c) Include cumulative total of water abstracted (m3); d) Specify zero values when no water is being taken; e) Include pumping hours per day; f) Be reported to Waikato Regional Council via email within the first 10 working days of each month for the preceding month.		Appendix H DeMP

8	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		This Plan CEMP

AUTH144460.04.01 – Landuse – Bed Structure			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.	Advice Note: This consent does not authorise the construction/operation of the two temporary bridge crossings described in the application documents on the basis that these activities re proposed to be undertaken as permitted activities in accordance with rule 4.2.8.1 of the WRP.	This Plan CEMP
2	The consent holder shall ensure that the bridge structures authorised by this consent are constructed and maintained in such a manner as to avoid any adverse increase in flooding effects on upstream and downstream land.		Appendix I SMP
3	The consent holder shall be held responsible for maintaining the bridge structures clear of debris and other obstructions through the full term of this consent.		Appendix I SMP
4	Any future protection and/or erosion control works or associated maintenance that becomes necessary as a result of the exercise of this consent shall be the responsibility of the consent holder and shall be carried out to the satisfaction of the Waikato Regional Council.	Advice Note: A separate resource consent may be required as a result of the need to undertake erosion control works. Any such consent shall be obtained by the consent holder at their sole expense prior to any works being undertaken.	Appendix I SMP
5	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		This Plan CEMP

AUTH144460.05.01 – Landuse – Bed Structure			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP

2	The consent holder shall construct the outfall structure in accordance with the methods outlined in the approved Streamworks Management Plan required by condition 47 and the Fish Management Plan required by condition 48 of Schedule 1.		Appendix I SMP
3	The consent holder shall be held responsible for maintaining the outfall structures clear of debris and other obstructions.		Appendix I SMP
4	The outfall structures from any part of the stormwater system shall not cause any conspicuous scouring or erosion effects at the point of discharge. In the event that effects do occur they shall be remedied without undue delay.		Appendix I SMP
5	The consent holder shall be responsible for monitoring the outfall structures and any future protection and/or erosion control works or associated maintenance that becomes necessary as a result of the exercise of this consent shall be the responsibility of the consent holder and shall be carried out to prevent any ongoing erosion or scour effects.		Appendix I SMP
6	The consent holder shall construct and maintain the outlet pipe structure from the Eastern Gully on-line attenuation weir in general accordance with the plan titled Whatukooruru Drive Stormwater Attenuation Device SWD04 Plan and Profile' being drawing number 146000-002A2222 'prepared by BBO dated 7 May, 2021 and all supporting information to ensure that fish passage is maintained through the structure under all stream flow conditions.		Appendix I SMP
7	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		This Plan CEMP

AUTH144460.06.01 – Landuse – Land Discharge			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		
2	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		

AUTH144460.07.01 – Water Permit – Stormwater Discharge			
	GENERAL		
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP
2	The consent holder shall construct and establish the stormwater system in general accordance with the detailed stormwater design plans and supporting documents submitted to the Waikato Regional Council on 11 April, 2022 including the following plans and documentation: • Peacocke: Whatukooruru Drive Stormwater Design Drawing Set prepared by Bloxam Burnett & Olliver dated 7 May, 2021 and comprising drawing numbers 146000-002A-2100 to 2241 Rev B; and • Peacocke Whatukooruru Drive Stormwater Management Report Version 2 prepared by Bloxam Burnett & Olliver dated 7 April, 2022		This Plan CEMP
3	The consent holder shall not undertake any changes to the stormwater system which would fundamentally alter the stormwater quality or quantity characteristics of the stormwater discharge activities authorised by this resource consent.	Advice Note – The stormwater discharge activities authorised through this consent relate to discharges from the Whatukooruru Drive and upgraded Peacokes Road carriageway surfaces only and do not extend to discharges from the adjacent/future urban development areas unless agreed with the Waikato Regional Council at the time of the future development.	This Plan CEMP
	AS-BUILTS		
4	The consent holder shall submit final "as built" details and drawings of the stormwater management system including the stormwater reticulation system and the stormwater treatment, attenuation systems and discharge outfall structures associated with the stormwater discharge activities authorised by this resource consent. The “as built” details and drawings shall be submitted to the Waikato Regional Council within 1 month of final completion of construction works associated with the stormwater management devices. The as built plans shall be certified by an appropriately qualified engineer as a true record of the completed stormwater management system and that the completed stormwater management system is in general accordance with the approved detailed design plans referred to in condition 2 above.		This Plan CEMP
	STORMWATER QUALITY		
5	The consent holder shall manage the stormwater network to avoid as far as practicable and otherwise minimise, the		Appendix F

	discharge of any substance that is likely to cause the production of conspicuous oil, or grease films, scums or foams, or floatable suspended materials in stormwater receiving water bodies after reasonable mixing.		ESCP
6	The consent holder shall manage the stormwater network to avoid as far as practicable and otherwise minimise, the discharge of suspended solids and any other substances that are likely to cause the following effects in stormwater receiving water bodies after reasonable mixing: a) Conspicuous changes in colour or visual clarity; b) Increases in suspended solids concentrations by more than 10 percent; c) 100 grams per cubic metre suspended solids concentrations or greater.	Advice Note: For the purposes of this condition, the suspended solids discharge parameters referenced above shall only apply to the post development stormwater discharges authorised by this resource consent and do not apply to the earthworks activities which are authorised under the separate land disturbance resource consent AUTH144460.01.01.	Appendix F ESCP
7	The consent holder shall manage the stormwater network to avoid as far as practicable and otherwise minimise, the discharge of hazardous substances in concentrations that are likely to adversely affect aquatic life, or the suitability of water for human consumption after treatment. Where a question arises as to whether the concentration of any particular hazardous substance is causing these effects, it shall be determined through the application of the United States Environmental Protection Agency National Recommended Water Quality Criteria (USEPA, 2009) – Criteria Maximum Concentration, or any other technical publication approved in advance by the Waikato Regional Council in a technical certification capacity.		Appendix F ESCP
8	All stormwater treatment devices including wetlands, swales and raingardens which form part of the stormwater network and are designed to treat contaminated stormwater shall be operated and maintained by the consent holder to provide best practicable stormwater treatment efficiency at all times.		Appendix F ESCP
	WATER QUANTITY		
9	The consent holder shall manage the stormwater network to avoid as far as practicable and otherwise minimise, the following stormwater quantity effects: a) Adverse scour, erosion and sediment deposition on land, property and within the beds of stormwater receiving water bodies; b) Adverse flooding of land and property; c) Adverse effects on aquatic ecosystems.	Advice Note: Stormwater diversion and discharge activities in conjunction with urban land-use, can adversely affect flood potential by either limiting the rate at which stormwater drains from a catchment, or by increasing the rate and volume of discharge to downstream catchments. Whilst such effects are the subject of this consent, it is also recognised that 'levels of service' for flood alleviation in urban	Appendix F ESCP

		catchments are established by territorial authorities through separate statutory procedures and community consultation. The 'levels of service' that are established between the territorial authority and the community are not the subject of this resource consent.	
10	As soon as practicable after becoming aware of any of the adverse effects of the nature specified in Condition 9 that are more than minor, the consent holder shall submit a report to the Waikato Regional Council in relation to the adverse effects. As a minimum, the report shall include: a) A description of the adverse effects; b) A description of the cause of the adverse effects; c) An explanation of any measures taken to remedy or mitigate the adverse effects, the outcome of those measures, and whether further measures are necessary and reasonably practicable; d) If no measures have been taken in accordance with (c), a description of any reasonably practicable measures that could be taken to remedy or mitigate the adverse effects and a recommendation as to whether those measures are necessary. The consent holder shall liaise with the Waikato Regional Council with a view to determining any reasonably practicable measures which should be taken to remedy or mitigate the adverse effects.	Advice Note: Separate resource consents may be required to undertake remedial or mitigation works. The consent holder is advised to obtain all such consents at its sole expense, prior to any works being undertaken.	Appendix F ESCP
	STORMWATER DEVICE PLANTING MANAGEMENT PLAN		
11	A detailed Stormwater Device Planting Management Plan shall be prepared for the design and implementation of the plantings within the wetland, swales and raingardens which form part of the stormwater management system. This plan shall include but not be limited to: a) Device planting details including species to be planted, size/number of plants, density of planting and sourcing of plants; b) Ongoing maintenance, weed and pest control requirements including timing and frequency of maintenance inspections; and c) Supplementary/replacement planting plans specifications. The Stormwater Device Planting Management Plan shall be to a standard acceptable to the Waikato Regional Council and shall be submitted to the Waikato Regional Council for each of the stormwater devices for written approval in a technical certification capacity prior to implementation of the plantings within the stormwater management devices. The approved Stormwater Device Planting Management Plans shall be implemented on site to ensure the successful	Advice Note: It is accepted that generic planting plans can be submitted which can be applicable to all of the raingarden/swale devices, however individual planting plans are required for the wetland devices.	Appendix L SDPMP

	establishment of the required plantings within all stormwater management devices.		
	OPERATION AND MAINTENANCE PLAN		
12	The Consent Holder shall provide the Waikato Regional Council with a Stormwater Operation and Maintenance Plan (SOMP) for the stormwater management systems to be implemented within the site. The objective of the SOMP shall be to outline specific operation and maintenance procedures to be implemented to ensure the long term effectiveness of the stormwater system in achieving the design stormwater management functions as outlined within the application for this consent and in accordance with the Waikato Stormwater Management Guidelines 2020. The SOMP shall provide for all operational, maintenance, planting and monitoring measures associated with the stormwater discharge activities authorised by this resource consent and may include but not be limited to: a) A programme for regular monitoring and inspection of the stormwater management system including details of monitoring and inspection frequency; b) A programme for the regular collection and disposal of debris and sediment collected by the stormwater management devices to ensure that storage/soakage are not compromised and that appropriate contaminant removal procedures are established; c) A programme for the monitoring of bioretention and soakage device performance including infiltration efficiencies; d) A programme for the replacement of bioretention device media as required to maintain treatment efficiencies in accordance with the approved design documents; e) Inspection checklists for all aspects of the stormwater management system including monitoring and maintenance of water quality and vegetation and all inlet/outlet structures; f) Details of who will be responsible for the operation and maintenance works; and g) Details of recording and reporting of operation and maintenance activities to the WRC. The SOMP shall be submitted to the Waikato Regional Council for approval prior to the commencement of the stormwater discharge activities within the site and shall be implemented on site for the duration of the stormwater diversion and discharge activities.		Appendix M SOMP
13	Any changes to the approved SOMP shall be confirmed in writing by the consent holder and approved in writing by the Waikato Regional Council prior to the implementation of any changes proposed.		Appendix M SOMP
14	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge		This Plan CEMP

	prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		

AUTH144460.08.01 – Water Permit – Drilling			
1	The consent holder shall ensure that the works and activities authorised by this resource consent are carried out in accordance with the conditions as set out in Schedule One.		This Plan CEMP
2	The consent holder shall pay the Waikato Regional Council any administrative charge fixed in accordance with section 36 of the Resource Management Act (1991), or any charge prescribed in accordance with regulations made under section 360 of the Resource Management Act (1991).		This Plan CEMP

HCC DESIGNATION CONDITIONS (NoR HCC 168A)			
1.0	GENERAL CONDITIONS		
1.1	Except as modified by the Conditions below and subject to final design, the Project works shall be undertaken generally in accordance with the information provided by the Requiring Authority in its Notice of Requirement (NoR), its evidence and supporting documentation, including: a) Southern Links: Notice of Requirement by the NZ Transport Agency and Hamilton City Council dated 09 August 2013; b) Southern Links: Assessment of Environmental Effects and Supporting Information (including technical appendices), prepared for the NZ Transport Agency and Hamilton City Council by AECOM New Zealand Limited and others, dated 05 August 2013; c) Southern Links –Scheme Assessment Report Drawings 1000-8000 series, prepared for the NZ Transport Agency and Hamilton City Council by AECOM New Zealand Limited and Opus; d) The Requiring Authorities' response dated 18December 2013 to the Territorial Authorities' s92 request for further information; e) Hamilton Southern Links Concept Drainage Design, prepared for the NZ Transport Agency and Hamilton City Council by AECOM New Zealand Ltd, dated 22 June 2012and any subsequent changes; f) Southern Links Preliminary Design Philosophy Statement, prepared for the NZ Transport Agency and Hamilton City Council by AECOM New Zealand Ltd, dated 19 June 2014; g) Southern Links Peacockes North/South Layout Plan and Long Section, prepared by AECOM New Zealand Ltd and Opus, drawing number 60164546-C-20-3102 Revision C, updated 02/07/14; and h) Southern Links Cobham Drive Layout Plan and Long Section, prepared by AECOM New Zealand Ltd and Opus, drawing number 60164546-C-20-4101 Revision C, updated 02/07/14.		This Plan CEMP
1.2	Where there is any inconsistency between the NoR documentation and the designation conditions, the designation conditions shall prevail.		This Plan CEMP
1.3	Pursuant to Section184A(2)(c) of the RMA, the designation shall not lapse for a period of twenty (20) years after it is included in the Operative and Proposed Hamilton City District Plans.		This Plan CEMP
1.4	Any reference in these Conditions to legislation or a Standard includes any later legislation or standard that amends or replaces it		This Plan CEMP

2.0	MANAGEMENT PLANS GENERAL		
2.1	All works shall be carried out in accordance with the applicable Management Plan(s) and other plans required by these Conditions.		This Plan CEMP
2.2	The following Management Plans must be submitted to the Territorial Authority Chief Executive or nominee for certification that they are consistent with the conditions of the designation: a) Pre-Construction Communication and Consultation Plan; b) Construction Management Plan; c) Construction Noise and Vibration Management Plan; d) Construction Traffic Management Plan; e) Construction Communication and Consultation Plan; f) Concept Landscape Management Plan; g) Landscape Management Plan; h) Heritage and Archaeological Site Management Plan; i) Dust Management Plan; j) Contaminated Soil Management Plan; k) Hazardous Substances Management Plan; l) Transport Network Management Plan; m) Environmental Monitoring and Management Plan; and n) Conservation Plan.		Appendices A to M
2.3	Within twenty (20) working days of receipt of any Management Plan for certification as required under Condition 2.2,the Territorial Authority shall notify the Requiring Authority as to whether the Management Plan is certified or whether inconsistencies with the relevant designation condition(s) have been identified and what matters are required to be addressed.		This Plan CEMP
2.4	Construction Works shall not commence until the Requiring Authority has received the Territorial Authority Chief Executive or nominee's written certification for the relevant Management Plans.		This Plan CEMP
2.5	Unless inconsistencies are identified that require addressing, any changes proposed to a certified Management Plan shall be confirmed in writing by the Requiring Authority and certified in writing by the Territorial Authority's Chief Executive or nominee within ten (10) working days of receipt of written confirmation, prior to implementation of those changes. Any changes to Management Plans shall remain consistent with the overall intent of the relevant Management Plan.		This Plan CEMP
2.6	In the event of any dispute, disagreement or inaction arising in respect of the certification of Management Plans or certification of changes to Management Plans, that matter shall be referred in the first instance to the Territorial Authority Chief Executive to determine a process for resolution. a) If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified person, agreeable to both parties, setting out the details		This Plan CEMP

	of the matter to be referred for determination and the reasons the parties do not agree. b) The independent appropriately qualified person shall be appointed within ten (10) working days of the Requiring Authority or Territorial Authority giving notice of their intention to seek determination. The appointed person shall, as soon as possible, issue his or her decision on the matter. In making the decision, he or she shall be entitled to seek further information and hear from the parties as seen fit.		
2.7	At all times during construction, the Requiring Authority shall ensure that a copy of the latest certified version of the Management Plans identified in Condition 2.2is kept on site and all key personnel are made aware of each Plan's contents.		This Plan CEMP
2.8	A copy of the latest certified version of each Management Plan identified in Condition 2.2 shall be available on the HCC's website at all times until effective completion of the Project.		This Plan CEMP
2.9	The Property Acquisition and Management Engagement Practice shall be provided to the Territorial Authority Chief Executive or nominee for information only.		N/A
2.10	The Management Plans are not required to include all details for every stage of work at the time the plan is submitted for certification to the Territorial Authority Chief Executive or nominee. If further details are to be provided for later stages of work, the Management Plan shall specify which stages require further certification at a later date. Management Plans for later stages of work shall be submitted to the Territorial Authority Chief Executive or nominee for certification prior to construction commencing in the relevant stage, and conditions 2.3and 2.4apply accordingly.		This Plan CEMP
2.11	Where conditions require consultation with third parties in the development of Management Plans, these plans shall demonstrate how the views of that party (or parties) have been incorporated, and, where they have not, the reasons why.		This Plan CEMP
	PRE-CONSTRUCTION CONDITIONS		
3.0	COMMUNICATION, CONSULTATION AND PROPERTY LIAISON		
3.1	Within three (3) months of inclusion of the designation in the district plan, the Requiring Authority shall appoint a Communication, Consultation and Property Liaison Manager to implement the Pre-construction Communication and Consultation Plan (PCCP) (Condition 3.4 to 3.8) and Construction Communication and Consultation Plan (Condition 8.2 to 8.7). The Communication, Consultation and Property Liaison Manager (subject to Condition 8.1) shall be the main and readily accessible point of contact for the community, stakeholders, directly affected parties, and affected in proximity parties for the duration of the Project.		N/A
3.2	The Communication, Consultation and Property Liaison Manager's contact details shall be listed in the PCCP and on the HCC website.		N/A
3.3	The Communication, Consultation and Property Liaison Manager shall maintain a record of all contact received and any actions		N/A

	arising. These records shall be considered in the same manner as if they were a minute produced from a Community Liaison Group meeting.		
	PRE-CONSTRUCTION COMMUNICATION AND CONSULTATION PLAN		
3.4	The PCCP shall be submitted to the Territorial Authority Chief Executive or nominee, within six (6) months of the Designation being confirmed, for certification. The PCCP shall be prepared by a suitable qualified and experienced person.		N/A
3.5	Implementation of the PCCP shall commence within nine (9) months from the inclusion of the designation in the district plan, until the commencement of the Construction Works.		N/A
3.6	The objective of the PCCP is to set out a framework to: a) Inform the community of Project progress and likely commencement of construction works and any proposed staging of works; b) Provide general updates on property acquisition and management, while respecting the privacy and confidentiality of individual landowner negotiations; and c) Determine how to engage with affected parties for identifying and implementing potential site specific mitigation measures.		N/A
3.7	The PCCP shall set out how the Requiring Authority will: a) Inform the community of Project progress and likely commencement of Construction Works and programme; b) Engage with the community with an aim to fostering good relationships, and provide opportunities for learning about the Project; and c) Provide general updates on the property acquisition process.		N/A
3.8	In addition to the matters set out in Condition 3.7 the PCCP shall also include: a) A communications framework that details the Requiring Authority's communication strategies, the accountabilities and timeframes for responding to inquiries and complaints, frequency of communications and consultation, the range of communication and consultation methods to be used (particularly with regards to communicating and consulting with tangata whenua (refer to Conditions3.15 to 3.17) the Community Liaison Group (refer to Conditions3.9 to 3.14), and the Landscape Management Plan(refer to Condition 14), and any other relevant communication matters; b) Details of the Communication, Consultation and Property Liaison Manager for the pre-construction period (Conditions 3.1 and 3.2) including their contact details (phone, email and postal address); c) Identification of directly affected or affected in proximity parties and stakeholders who will be consulted and communicated with; and		N/A

	d) Measures to receive, record and respond (if necessary) to feedback.		
	COMMUNITY LIAISON GROUP		
3.9	Within twelve (12) months of inclusion of the designation in the district plan, the Requiring Authority shall, after consultation with the Territorial Authority, establish a Community Liaison Group for the Peacocke Structure Plan area.		N/A
3.10	The membership of the Community Liaison Group shall include representative(s) of the Requiring Authority and be open to all Directly Affected and/or Affected in Proximity parties in the Peacocke Structure Plan Area.		N/A
3.11	The purpose of the Group shall be to: a) Provide a means for receiving regular updates on Project progress including updates on the programme and staging; b) Enable opportunities for individual and/or community concerns and issues to be reported to and responded to by the Requiring Authority, including access requirements that need to be addressed as part of the Construction Traffic Management Plan (Condition 12.5(a)); c) Enable the Requiring Authority to be informed of any existing or proposed ecological enhancement or restoration on private property to inform the development of any Concept Landscape Management Plan, Landscape Management Plan and/or Environmental Management and Monitoring Plan; and d) Provide an opportunity for the Requiring Authority to receive requests from individual landowners to establish planting, including on private property, in advance of construction which may enable the early establishment of screening and landscaping to assist in addressing adverse effects on amenity.		N/A
3.12	The Requiring Authority shall invite the Group to meet at least annually until the commencement of construction and then at least once every three (3) months once Construction Works have commenced until six (6) months after completion of the Construction Works, or as otherwise agreed. Should a majority of Group members decline or not respond to an invitation to meet, the Requiring Authority is not required to hold that meeting.		N/A
3.13	Once the Construction Works have commenced the Requiring Authority will provide an update to the Group on Project progression at least every three (3) months (or as otherwise agreed).		N/A
3.14	The Requiring Authority shall provide a venue for meetings of the Community Liaison Group, invite all Group members to the meeting, and take and disseminate meeting minutes.		N/A
	CONSULTATION WITH WAIKATO TAINUI		
3.15	When required to consult with Tangata Whenua by the Conditions of this designation the Requiring Authority shall, through its Chief Executive or nominee, contact the Waikato Tainui		N/A

	Environment Manager, or successor, to convene a Tangata Whenua Working Group ("TWWG"). Waikato Tainui shall be invited to appoint a nominated representative to administer the liaison/coordination of this group/representatives to ensure: a) Each hapu is represented by the recognised/appointed person or persons; b) Administration of liaison/coordination occurs in a timely manner; and c) Any actions/direction or information from the TWWG representatives has a common voice for Iwi on all liaison/coordination matters.		
3.16	The TWWG shall comprise at least one representative from each of the following: a) Ngati Hauaa; b) Ngati Koroki Kahukura; c) Ngati Wairere; d) Ngati Maahanga; and e) The Requiring Authority.		N/A
3.17	The Requiring Authority shall invite the TWWG to meet at least annually until the commencement of Construction Works to provide a means for receiving regular updates on project progress, including updates on programme and staging and to discuss the consideration of mitigation measure set out in the TWEAR dated January 2014.		N/A
	CONSULTATION WITH NETWORK UTILITY OPERATORS		
3.18	During the design phase of the Project, the Requiring Authority shall give reasonable notice and make all reasonable endeavours to: a) Liaise with all relevant network utility operators in relation to any part of the works within the designation where their infrastructure may be affected; and b) Make reasonable and relevant changes requested by such network utility operators, to the relevant design plans and methodologies, to ensure that access to, maintenance and the operation of all network utility infrastructure within the designated area is not adversely affected.		N/A
	PROPERTY ACQUISITION AND MANAGEMENT ENGAGEMENT PRACTICE		
3.19	With six (6) months of the inclusion of the designation in the district plan, the Requiring Authority shall provide to the Territorial Authority Chief Executive or nominee and directly affected landowners access toa document outlining the Requiring Authority's property acquisition and management engagement practice (PAMEP). The objective of the PAMEP is to provide clarity for directly affected landowners on how they can engage with the Requiring Authority on matters regarding property acquisition and management. The PAMEP shall, as a minimum:		N/A

	a) Include contact details (phone, email and postal address) for the Communication, Consultation and Property Liaison Manager (Condition 3.2). b) Identify timeframes within which the Requiring Authority will respond to enquiries. c) Describe the process which the Requiring Authority will follow for responding to specific: i. Requests from landowners to purchase properties, including under s185 RMA, and for compassionate or hardship grounds; ii. Requests from landowners to use land that is within the designation footprint but is not yet acquired by the Requiring Authority; and iii. Complaints regarding the maintenance of properties acquired by the Requiring Authority.		
3.20	The Requiring Authority shall acquire the land identified as Lot 5 DPS 10393 at least six (6) months before construction works commence on that part of the Project within the required land identified in drawing number 60164546-C-20-6503 (refer to Southern Links -Scheme Assessment Report Drawings 6000 series, prepared for the NZ Transport Agency and Hamilton City Council by AECOM New Zealand Limited and Opus).		N/A
3.21	The amount of land the Requiring Authority is to acquire under condition 3.20 may be amended by mutual agreement between the Requiring Authority and the owner of the land.		N/A
4.0	TE AWA CYCLEWAY		
4.1	The Requiring Authority shall ensure that the design of the final network in the vicinity of the Waikato River recognises and provides for the ongoing operation of the Te Awa pedestrian/cycleway.		N/A
5.0	PROTECTED TREES		
5.1	The Requiring Authority shall undertake best endeavours at the time of detailed design to retain the existence and health of the protected trees listed as T36.1 (English Oak), T36.3 (Pin Oak) and T36.4 (Pine) in the Hamilton City Proposed District Plan (Decisions Version -2014).		N/A
6.0	CONCEPT LANDSCAPE MANAGEMENT PLAN		
6.1	Prior to lodgement of any outline plans of works, the Requiring Authority shall submit a Concept Landscape Management Plan (CLMP) to the Territorial Authority Chief Executive or nominee for certification. The CLMP shall be prepared by a suitably qualified and experienced person and shall be developed after consultation with NZ Transport Agency and the Southern Links Tangata Whenua Working Group (TWWG).		N/A
6.2	The objective of the CLMP is to provide the overview of the landscape and urban approach, which will subsequently be developed into the detailed LMP as the Project design progresses. The CLMP shall include: a) A vision statement;		N/A

	b) An outline of the landscape and urban design themes to be adopted for the entire length of the Project, including for overbridges, underbridges and noise barriers. c) An outline of the landscape design elements, including hard and soft landscape materials, planting types, sizes and spaces. d) Concept landscape plans showing the design scheme; and e) Planting management and maintenance requirements.		
6.3	The CLMP shall be in general accordance with the indicative landscape mitigation measures and urban design proposals outlined in the report titled Southern Links Network Urban Design and Landscape Framework, prepared by Opus, dated 05 August 2013.		N/A
6.4	The CLMP shall have regard to the natural character policies of the Waikato Regional Policy Statement.		N/A
	ARCHAEOLOGICAL INVESTIGATION		
7.1	Prior to the commencement of detailed design, sufficient site-specific archaeological investigation, as set out in the recommendations in the Southern Links Designation Corridor Notice of Requirement Archaeological Assessment, prepared by Opus, dated 02 December 2013 in relation to the Requiring Authority's Designation, must be undertaken to determine the full extent of each archaeological site affected in part or whole by the designation footprint and to locate any intact archaeological features or deposits in order to take into account avoidance of archaeological remains during the development of detailed design plans. (Note: This may require permission from landowners adjacent to the designation and an authority from Heritage New Zealand for any in-ground investigation work)		N/A
	CONSTRUCTION CONDITIONS		
8.0	CONSTRUCTION COMMUNICATION AND CONSULTATION		
	CONTACT PERSON		
8.1	The Requiring Authority shall make a contact person available 24 hours, seven days a week for the duration of construction for public enquiries about the Construction Works		This Plan CEMP
	CONSTRUCTION COMMUNICATION AND CONSULTATION PLAN		
8.2	The Requiring Authority shall submit to the Territorial Authority Chief Executive or nominee a Construction Communication and Consultation Plan (CCCP) prepared by a suitably qualified and experienced person, which shall be implemented and complied with for the duration of the construction of the Project.		Appendix A CCCP
8.3	The CCCP shall be submitted to the Territorial Authority Chief Executive or nominee, no later than forty (40) working days prior to the commencement of any stage of Construction Works for certification.		Appendix A CCCP

8.4	The objective of the Construction Communication and Consultation Plan is to set out a framework to ensure appropriate communication and consultation is undertaken with the relevant community, stakeholders, directly affected parties, and affected parties in proximity during the construction of the Project.		Appendix A CCCP
8.5	The CCCP shall set out how the Requiring Authority will: a) Inform the community of construction progress and future construction activities and constraints that could affect them; b) Receive and respond to feedback on construction related matters; and c) Provide information on key project milestones.		Appendix A CCCP
8.6	The CCCP shall, as a minimum, include: a) A communications framework that details the Requiring Authority's communication strategies, the accountabilities and timeframes for responding to inquiries and complaints, frequency of communications and consultation, the range of communication and consultation methods to be used (including any modern and relevant communication methods, newsletters or similar, advertising), and any other relevant communication matters; b) The Communication, Consultation and Property Liaison Manager for the Project (required by Condition 3.2) including their contact details (phone, email and postal address); c) How the community, stakeholders, directly affected, and affected in proximity parties will be notified of the commencement of construction activities and works, the expected duration of the activities and works, and who to contact for any queries, concerns and complaints; d) Methods for communicating in advance any temporary traffic management measures, and permanent changes to road networks and layouts to the community, stakeholders, directly affected, and affected in proximity parties; e) Methods for communicating in advance proposed hours of construction activities outside of normal working hours and on weekends and public holidays, to surrounding communities, and methods to record and deal with any concerns raised about such hours; and f) Methods for communicating and consulting in advance of construction works with emergency services (Police, Fire, Ambulance) on the location, timing and duration of Construction Works.8.7	Advice Note: Because parts of the Project may be constructed ahead of other parts the Pre-Construction and Communication and Consultation Plan (required by Conditions 3.4 to 3.8) will continue to be implemented in conjunction with the Communication and Consultation Plan required under this Condition.	Appendix A CCCP
8.7	The CCCP shall have regard to, and where appropriate implement, any relevant actions identified in the minutes arising from the Community Liaison Group meetings (Conditions 3.3 and3.14)		Appendix A CCCP
	CONSTRUCTION MANAGEMENT PLAN		

9.1	No later than forty (40) working days prior to the commencement of any stage of Construction Works, the Requiring Authority shall submit for certification a Construction Management Plan (CMP) to the Territorial Authority Chief Executive or nominee. The CMP shall be prepared by a suitably qualified and experienced person. The objective of the CMP is to avoid, remedy or mitigate any adverse effects of construction, through methods identified in the CMP. For the avoidance of doubt, the Requiring Authority may prepare a CMP in relation to each individual stage of its programme of works, provided that in each case it shall submit a CMP for certification in accordance with this Condition prior to any Construction Works commencing on a particular stage.		This Plan CEMP
9.2	The CMP shall have regard to and where appropriate implement any relevant actions identified in the minutes arising from Community Liaison Group meetings (Conditions 3.3 and3.14).		This Plan CEMP
9.3	The CMP(s) shall include specific details relating to the construction and management of all works associated with the Project, including the following: a) Details of the site or Project manager, including their contact details (phone, facsimile (if any), postal address, email address); b) Details of the contact person required by Condition 8.1 including name, phone number, email and postal address; c) The location of large notice boards that clearly identify the name, phone number and address for service of the site or Project manager and the contact person required by Conditions 3.1 and 8.1; d) Training requirements for employees, sub-contractors and visitors on construction procedures, environmental management and monitoring; e) An outline construction programme of the works indicating, in particular, construction hours, likely time periods for partial or complete road closures, and anticipated traffic diversion effects; f) Environmental incident and emergency management procedures; g) 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; h) Location of workers' offices, conveniences (e.g. portaloos) and vehicle parking; i) Procedures for controlling sediment runoff, dust and the removal of soil, debris and demolition and construction materials from public roads or places, including wheel wash for construction vehicles. Dust mitigation measures should include use of water sprays to control dust nuisance on dry or windy days; j) Methods for earthworks management for earthworks adjacent to buildings and structures, including		This Plan CEMP

	temporary and permanent stabilisation measures and monitoring of ground movement; k) Procedures for ensuring that residents in the immediate vicinity of construction areas are given prior notice of the commencement of Construction Works and are informed about the expected duration of the works; l) Procedures to be followed to ensure that iwi representatives are notified of the proposed commencement of Construction Works and of the discovery of any koiwi or other artefacts; m) Procedures to be followed in the event that any historic artefacts are disturbed, being in accordance with any Authority obtained under the Heritage New Zealand Pouhere Taonga Act 2014; n) Means of ensuring the safety of the general public; and o) Procedures for receiving and responding to complaints.		
	COMPLAINTS MANAGEMENT		
10.1	Upon receiving a complaint during construction, the Requiring Authority shall instigate a process to address concerns or complaints received about adverse effects. This shall: a) Identify the nature of the complaint, and the location, date and time of the alleged incident / event(s); b) Acknowledge receipt of the complaint within 24 hours of receipt; and c) Respond to the complaint in accordance with any relevant Management Plan, which may include monitoring of the activity by a suitably qualified and experienced person and implementation of mitigation measures.		CCCP
10.2	A record of all complaints received shall be kept by the Requiring Authority. This record shall include: a) The name and address of the person(s) who raised the complaint (unless they elect not to provide this) and details of the complaint; b) Where practicable, weather conditions at the time of the concern or complaint, including wind direction and cloud cover if the complaint relates to noise or air quality; c) Known construction activities at the time and in the vicinity of the concern or complaint; d) Any other activities in the area unrelated to the Project construction that may have contributed to the complaint such as non-Project construction, fires, traffic accidents or unusually dusty conditions generally; and e) Remedial actions undertaken (if any) and the outcome of these, including monitoring of the activity.		CCCP
10.3	This record shall be maintained on site, be available for inspection upon request, and shall be provided every three (3) months (or		CCCP

<table>
<tr><td></td><td>as otherwise agreed) to the Territorial Authority Chief Executive or nominee.</td><td></td><td></td></tr>
<tr><td>10.4</td><td>Where a complaint remains unresolved or a dispute arises, that matter shall be referred in the first instance to the Territorial Authority Chief Executive to determine a process for resolution.a)If a resolution cannot be agreed, then the matter may be referred to an independent appropriately qualified person, agreeable to both parties, setting out the details of the matter to be referred for determination and the reasons the parties do not agree.b)The independent appropriately qualified person shall be appointed within ten (10) working days of the Requiring Authority or Territorial Authority giving notice of their intention to seek expert determination. That person shall, as soon as possible (and in any event no later than ten (10) working days of receiving the record of the complaint), issue his or her decision on the matter. In making the decision, he or she shall be entitled to seek further information and hear from the parties as seen fit.</td><td></td><td>CCCP</td></tr>
<tr><td>11.0</td><td>CONSTRUCTION NOISE AND VIBRATION</td><td></td><td></td></tr>
<tr><td></td><td>CONSTRUCTION NOISE AND VIBRATION MANAGEMENT PLAN</td><td></td><td></td></tr>
<tr><td>11.1</td><td>No later than forty (40) working days prior to the commencement of any stage of Construction Works, the Requiring Authority shall submit a Construction Noise and Vibration Management Plan (CNVMP) to the Territorial Authority’s Chief Executive Officer or nominee for certification. The CNVMP shall be prepared by a suitably qualified and experienced expert. The objective of the CNVMP is to provide a framework for the development and implementation of identified Best Practicable Options to avoid, remedy or mitigate the adverse effects of noise and vibration during construction and to minimise the frequency, duration and degree of exceedance of the noise and vibration standards set out in Conditions 11.3and 11.4.</td><td></td><td>CNVMP</td></tr>
<tr><td>11.2</td><td>The CNVMP shall be prepared in accordance with the State Highway Construction and Maintenance Noise and Vibration Guide (NZTA, 2013), and include the procedures, methods and measures for the control of noise and vibration associated with all relevant Project Construction Works.</td><td></td><td>CNVMP</td></tr>
<tr><td>11.3</td><td>Construction noise must be measured and assessed in accordance with NZS 6803:1999 ‘Acoustics Construction Noise’ (NZS 6803:1999). The construction noise limits for the purposes of the CNVMP that are to be complied with, as far as practicable, are as given in Table A below:
<table>
<tr><td>Day</td><td>Time</td><td>$L_{Aeg(15min)}$</td><td>L_{AFmax}</td></tr>
<tr><td>Weekdays</td><td>0630h – 0730h</td><td>60 dB</td><td>75 dB</td></tr>
<tr><td></td><td>0730h – 0800h</td><td>75 dB</td><td>90 dB</td></tr>
<tr><td></td><td>1800h – 2000h</td><td>70 dB</td><td>85 dB</td></tr>
</table></td><td></td><td>CNVMP</td></tr>
</table>

		2000h – 0630h	45 dB	75 dB		
	Saturday	0630h – 0730h	60 dB	75 dB		
		0730h – 0800h	45 dB	75 dB		
		1800h – 2000h	45 dB	75 dB		
		2000h – 0630h	45 dB	75 dB		
	Sundays and Public Holidays	0630h – 0730h	45 dB	75 dB		
		0730h – 0800h	55 dB	85 dB		
		1800h – 2000h	45 dB	75 dB		
		2000h – 0630h	45 dB	75 dB		
	Commercial and Industrial Receivers					
	All	0730h – 1800h	75 dB			
		1800h – 0730h	75 dB			

11.4

The CNVMP must describe the measures adopted to seek to meet the Category A vibration criteria set out in Table B below, where practicable. If measured or predicted vibration levels exceed the Category A criteria, then a suitably qualified and experienced person shall be engaged to assess and manage construction vibration to comply with the Category A criteria. If the Category A criteria cannot be practicably achieved, the Category B criteria in Table B below shall be applied. If measured or predicted construction vibration levels exceed the Category B criteria, then construction activity shall only proceed if vibration effects on those buildings at risk of exceeding the Category B criteria are assessed, monitored and mitigated by suitably qualified persons. The criteria are to be applied to either predicted ground vibrations, or measured in accordance with ISO 4866: 2010 and AS 2187-2: 2006.

Receiver	Details	Cat A	Cat B	Location
Occupied Dwellings	Monday to Friday 0630h – 2000h	1.0 mm/s ppv	5.0 mm/s ppv	Inside the building

CNVMP

			All hours Sunday and Monday to Saturday 2000h – 0630h	0.3 mm/s ppv	1.0 mm/s ppv		
		Other Occupied Buildings	At all times	2.0 mm/s ppv	10.0 mm/s ppv	Inside the building	
		All Buildings	Transient vibration	5.0 mm/s ppv	BS 5228.2 Table B2 values	Building foundation	
			Continuous vibration		50% of BS 5228.2 Table B2 values		
		Underground Services	Transient vibration	20.0 mm/s ppv	30.0 mm/s ppv	On pipework	
			Continuous vibration	10.0 mm/s ppv	15.0 mm/s ppv		
11.5	In addition to those matters detailed in the State Highway Construction and Maintenance Noise and Vibration Guide, the CNVMP shall address the following aspects with regard to managing the adverse effects of construction noise and vibration: a) Identification of affected dwellings and other sensitive locations where vibration criteria apply, which shall include all houses located within 50 metres of general road construction activities, and 100 metres of piling, where those activities are undertaken on peat; b) Predicted noise levels set out as minimum compliance distances for key activities and items of plant and identification of any dwellings or other sensitive locations where works will be required within those minimum compliance distances; c) Mitigation options, including alternative strategies where full compliance with the noise criteria in Table A above and/or the vibration criteria in TableB above cannot practicably be achieved; d) Requirements for building condition surveys of critical dwellings, prior to and after completion of construction works and during the works if required (including all buildings measured or predicted to exceed the Category B vibration criteria contained in Table B above) and processes for repair of any damage caused by the works.						CNVMP

11.6	Where noise or vibration predictions made in accordance with the CNVMP show that levels from a particular activity or at a specific location might exceed the limits set out in Condition11.3and/or 11.4, or where measurements show that compliance is not being achieved, the Requiring Authority shall prepare Schedules to the CNVMP. These Schedules shall; a) be prepared in accordance with the State Highway Construction Noise and Vibration Guide and include the relevant details specified in the Guide, including activity specific and/or location specific noise and vibration predictions and mitigation; b) include noise limits for the activity and an overview of mitigation options that have been considered, identifying which of those options are practicable; and c) be provided to the Territorial Authority Chief Executive or nominee at least five (5)working days in advance of the relevant works being carried out and implemented, for certification.		CNVMP
11.7	In the event that either: a) the Territorial Authority certifies the Schedule, or b) fails to advise the Requiring Authority of any concerns it has with the Schedule, within the five (5)working days period following receipt, then the activities covered by the Schedule may be carried out.		CNVMP
11.8	If the Territorial Authority advises the Requiring Authority of a concern it has with the Schedule, then no activity related to that concern shall be carried out until the matter has been addressed by the Requiring Authority to the satisfaction of the Territorial Authority.		CNVMP
12.0	CONSTRUTION TRAFFIC MANAGEMENT PLAN		
12.1	A Construction Traffic Management Plan (CTMP), shall be prepared by a suitably qualified and experienced person in accordance with the NZTA Code of Practice for Temporary Traffic Management and after consultation with the Territorial Authority Chief Executive or nominee. The CTMP shall be submitted to the Territorial Authority Chief Executive or nominee, for certification that the plan satisfies this condition no later than forty (40) working days prior to the commencement of any stage during Construction Works. Construction of any relevant stage of the Project shall not commence until the Requiring Authority has received the Chief Executive's or nominee's written certification of the CTMP for that stage of works.		CTMP
12.2	The objective of the CTMP is to provide a framework to be adopted by the Requiring Authority to ensure that the adverse traffic and access related effects of the construction of the Project will be avoided, remedied or mitigated.		CTMP
12.3	When requesting certification of a CTMP, the Requiring Authority shall provide the certifying Territorial Authority with a letter from each other Territorial Authority whose roads are affected by the Project's construction traffic confirming that the Requiring Authority has adequately consulted with that Territorial Authority in relation to Condition 12.5(i) and any		CTMP

	effects on that Territorial Authority's road network and included adequate measures to manage such effects.		
12.4	The CTMP shall have regard to and where appropriate implement any relevant actions identified in the minutes arising from Community Liaison Group meetings (Conditions 3.3 and3.14).		CTMP
12.5	The CTMP shall describe the measures that will be undertaken to avoid, remedy or mitigate the local and network wide construction traffic effects of construction of the Project. In particular (but not limited to), the CTMP shall describe: a) Measures to maintain vehicle access to roads and property to defined and approved levels of service. The CTMP shall identify notification thresholds and processes for communicating with affected parties and shall consider whether there are specific user needs that require specific responses. b) Measures to maintain access for emergency vehicles, and methods to ensure that emergency service providers are regularly informed of the timing and sequencing of works, road closures and alternative routes. c) The manner in which service providers are regularly informed of the timing and sequencing of works, road closures and alternative routes. d) The timing and sequencing of 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; e) Measures to ensure safe interaction between Project-related construction traffic and local road traffic where any temporary or existing local roads cross the Southern Links corridor. f) Measures to ensure safe access to the Project site. g) Measures to monitor the performance against agreed levels of service of all access points to the Project site, and all keystate highway and arterial local road intersections used by Project-related construction traffic, and the procedures to be followed where intervention is deemed necessary in order to maintain acceptable and reasonable operating conditions on local roads and on the State Highway network. h) Measures to ensure that any staging of Construction Works will adequately avoid, remedy or mitigate traffic-related adverse effects. i) Measures to be adopted to identify routes to be used (and roads to be specifically avoided) for Project-related Heavy Commercial Vehicles (HCVs) for shifting bulk materials (such as earth fill or pavement materials or water) (Bulk HCVs) and implement temporary traffic management controls in accordance with the Code of Practice for Temporary Traffic Management (COPTTM). j) Measures to ensure the use and reinstatement (to a mutually agreed standard) of local roads to be used as haul roads. The CTMP shall also describe the assessment and monitoring of road conditions and implementation of mitigation works.		CTMP

13.0	GENERAL CONSTRUCTION TRAFFIC		
13.1	The Requiring Authority shall ensure there is no off-site Project-related Bulk HCV traffic: a) On Sundays; or b) On public holidays or after 4.00 pm on working days prior to long weekends.		CTMP
13.2	The maximum hours of work for off-site Project-related Bulk HCVs shall be 7.00am –7.00pm.		CTMP
14.0	LANDSCAPE MANAGEMENT PLAN		
14.1	The Requiring Authority shall develop the certified CLMP(required by Condition 6.1) into a Landscape Management Plan (LMP). No later than forty (40) working days prior to construction commencing, the Requiring Authority shall submit the LMP to the Territorial Authority Chief Executive or nominee for certification. For the avoidance of doubt, the Requiring Authority may prepare a LMP in relation to each stage of its programme of works, provided that for each stage it shall submit a LMP for certification prior to any construction activity commencing on a particular stage of work.		N/A
14.2	The objective of the LMP is to maintain and enhance landscape, amenity and ecological values along the route and to mitigate any adverse visual, landscape, urban design and ecological effects of the Project or a particular stage of the Project. The LMP will identify the specific urban design and landscape measures to be implemented and maintained to achieve this objective.		N/A
14.3	The LMP(s) shall be prepared, after consultation with TWWG and the Territorial Authority, by a suitably qualified and experienced landscape architect with appropriate urban design experience and shall include at least the following: a) The proposed landscape and urban design theme to be adopted for the entire length of the Project, including for overbridges, underbridges and noise barriers; b) Landscape plans that identify any vegetation to be retained, areas of landscape mitigation and ecological enhancement planting (taking into account the requirements of the Ecological Management and Monitoring Plan required by Condition 15), and the type and density of planting to be undertaken; c) Provision where practicable for the use of earth bunding with gently undulating forms for noise barriers and measures to integrate the design of noise mitigation measures; d) Integration of the landscape design with the design of noise mitigation measures so that the combined measures can be implemented in a co-ordinated manner; e) Measures to minimise clearing work to conserve soil and protect any existing vegetation to be retained; f) Measures to ensure the appropriate disposal of any invasive or noxious weeds cleared from the site;		N/A

	g) Measures to integrate cut and fill batters with the existing topography; h) Measures to be undertaken for topsoil and subsoil management so as to provide a viable growing medium for the areas to be planted with trees, shrubs and grass; i) The nature, programme and methods of rehabilitation to be implemented within borrow and spoil disposal areas and any areas identified as being required for the treatment of otherwise unsuitable earth material; j) A schedule of the species to be planted including botanical name, average plant height at time of planting and at maturity, and planting density; k) A planting specification, including planting and mulching techniques; l) Planting maintenance requirements over a five year period following planting and reinstatement of road verges and gullies; m) An implementation programme for all remedial and mitigation measures; n) Post-construction monitoring measures; o) Site specific planting and screening measures developed after consultation with directly affected property owners; p) Planting and screening measures developed after consultation with landowners of Riley Place and Montgomery Crescent adjoining the designation; and q) All plant species used in the Landscape Management Plan shall be selected to ensure that at their full maturity they do not protrude through the Hamilton Airport Obstacle Limitation Surface height restrictions as set out in the Hamilton City District Plan.		
14.4	The Requiring Authority shall provide the LMP to the parties referred to in Conditions14.3(o) and 14.3(p) at least thirty (30) working days prior to submitting it to the Territorial Authority Chief Executive or nominee for certification.		N/A
14.5	If the Requiring Authority has not received comment from any of the parties referred to in Conditions 14.3(o) and 14.3(p)within twenty (20) working days of providing them the LMP, the Requiring Authority may consider that the stakeholder concerned has no comment.		N/A
14.6	The Requiring Authority shall include any comment from the parties referred to in Conditions 14.3(o) and 14.3(p)in the LMP, along with an explanation of where and why any comments have not been incorporated into the LMP(s), prior to submitting the LMP to the Territorial Authority.		N/A
15.0	ECOLIGICAL MANAGEMENT AND MONITORING PLAN		
15.1	The Requiring Authority shall, after consultation with the TWWG, Waikato Regional Council, the Territorial Authority, the Waikato River Authority, the Director-General of Conservation, the Mangakotukutuku Stream Care Group Incorporated, the Riverlea Environment Society and the NZ Transport Agency develop an Ecological Management and Monitoring Plan		HCC Ecological Management and

	(EMMP). The EMMP shall be prepared by an appropriately qualified and experienced ecologist/s.		Monitoring Plan
15.2	The EMMP shall be submitted to the Territorial Authority's Chief Executive or nominee, for certification. The EEMP must be submitted for certification within three(3)years after the date on which the designation is included in the Operative or Proposed HCC District Plan or at least forty (40) working days prior to the commencement of Construction Works, whichever event occurs earlier in time. The EMMP shall include performance measures, actions, methods, trigger levels and monitoring programmes designed to achieve the objectives specified below. The objectives of the EMMP shall be to demonstrate how the Requiring Authority intends to achieve no net loss of terrestrial, wetland and stream biodiversity values. It shall provide details on how monitoring, management and mitigation of the significant adverse effects of construction activities and Project operation is to be undertaken, including but not limited to effects on: a) Long-Tailed Bats, with the aim of enhancing long-tailed bat habitat within the city boundary; b) Avifauna, with the aim of enhancing the extent and quality of habitat for native species; c) Lizards, with the aim of enhancing the extent and quality of habitat for native species; and d) Indigenous vegetation, aquatic and wetland values, with the aim of restoring indigenous vegetation to the gullies and margins of the Waikato River in accordance with the objectives and policies of the Hamilton Gully Reserves Management Plan: 2007 (or its successor) as these relate to biodiversity, with the species and composition of vegetation restored reflecting as far as possible the natural ecosystems that were likely to be originally representative of gully systems and riparian margins of the Waikato River as defined in Clarkson & Clarkson (1997)1.		HCC Ecological Management and Monitoring Plan
15.3	The EMMP shall set out the methodologies and processes that will be used to achieve these objectives and shall include, but will not be limited to: a) Ecological management; i. Vegetation and habitat management; ii. Management of effects on long-tailed bats, avifauna, and lizards; b) Ecological monitoring; and c) Habitat restoration/offset mitigation on the following basis: i. A minimum 1:1 restoration ratio for areas of gully, bat habitat and river margin affected by the designation (including habitat dominated by exotic vegetation). (ii)a minimum 3:1 restoration ratio for significant indigenous habitats (including indigenous forests, wetlands, seeps and springs) affected by the designation. The total area to be restored based on the ratio in (i) and ii. The above shall be a minimum of 11.46 hectares.		HCC Ecological Management and Monitoring Plan

	iii. Gully habitat restoration proposed by the EMMP shall generally align with Wall, K and B.D. Clarkson 2006: Gully restoration guide: a guide to assist in the ecological restoration of Hamilton's gully system. Third Revised Edition. Hamilton City Council (or an updated version). iv. Animal Pest Control, undertaken for a period of twenty (20)years, at known significant roost sites (significant roost sites being maternity roost sites or other roost sites used by multiple bats on a regular basis). Any measures implemented must be determined by an Animal Pest Control specialist as having a reasonable prospect of being effective. The duration or nature of Animal Pest Control in accordance with this condition can be altered should monitoring of the Animal Pest Control demonstrate that it is ineffective, or to allow alternative Animal Pest Control approaches to be trialled. Any alteration to the duration or nature of Animal Pest Control shall necessitate a review of the EMMP in accordance with condition 15.7.		
15.4	The EMMP shall include: a) Identification of areas and timeframes for establishment of advance restoration / mitigation planting, as far as practicable ahead of construction activities taking into account land ownership, accessibility and the timing of available funding; b) Consideration of opportunities to integrate existing restoration planting on public or private land with the restoration/mitigation planting to be undertaken as part of this designation in order to enhance ecological benefit; this shall include but not be limited to the restoration planting undertaken to date adjacent to the Mangakotukutuku Stream and on the following private properties:•Lot 2 DPS 83799 (M & M Shaw)•Lot 2 DP 313598 (G James) c) Identification of areas and timeframes for establishment of incremental restoration / mitigation planting to be undertaken as property is acquired by or vested in the Territorial Authority through the Public Works Act or the Resource Management Act; d) Provision for the coordination of construction works and environmental protection and restoration programmes; 25 e) Provision for the engagement of suitably qualified and experienced ecologists to develop appropriate procedures to manage effects on long-tailed bats, avifauna, and lizards, where habitats are affected; f) The nature of any weed and / or pest control considered appropriate (timing, extent and location) in restoration / mitigation planting areas; g) The nature and extent of stock proof fencing (if required) that is to be established around the boundaries of restoration / mitigation planting areas; h) Provisions, where practicable, for the salvage of elements of indigenous flora and fauna that is being		HCC Ecological Management and Monitoring Plan

	destroyed as a result of the construction of the Project and its translocation to appropriate restoration areas; and i) Provisions to ensure all restored areas are legally protected in perpetuity, where practicable.		
15.5	The EMMP provisions for Long-Tailed Bat Management shall include, but not be limited to, the following: a) Details of measures to avoid, minimise and monitor roost removal and habitat loss (including specific minimum standards determined by a recognised bat ecologist for roost tree identification and monitoring of roost trees before their removal, recognising the limitations for determining roost tree occupancy in some situations), as well as habitat replacement and enhancement; b) Details of the provision of alternative roosting sites (including suitable indigenous or exotic trees for roost habitat, their ongoing management to enhance their roosting potential (for example, encouraging cavity formation or providing artificial bat houses), with artificial roosts installed as far in advance of construction as possible; c) Details of measures to minimise habitat fragmentation and alteration to bat movement (e.g. creating possible bat crossing points such as a bridge/ tunnels/ culverts; reducing the effect of road lighting by creating 'dark zones' at key bat habitats, aligning streetlights in certain ways or installing baffles on lighting columns to reduce the 'spill' of light away from the road); d) The establishment of buffer zones and hop overs along the Project route in advance of construction (where feasible), during and after construction to encourage bat avoidance of the road and maintaining important bat flyway navigational references, if deemed appropriate by a recognised bat ecologist; e) Details of measures to minimise disturbance from construction activities within the vicinity of any active roosts that are discovered until such roosts are confirmed to be vacant of bats, as determined by a recognised bat ecologist using current best practice; f) Details of ongoing monitoring and reporting of bat activity, including the establishment of adequate baseline survey and post construction monitoring to identify and assess changes in bat activity and behavioural patterns that may occur as a result of construction and operation of the Project network at all locations where bats are detected. The specific priority objectives of monitoring shall include: i) Determining the effects of lighting and roads on the movement of bats and what other key potential barriers (e.g. bridges, embankments) are to movement; ii)Monitoring to gauge the effectiveness of the Animal Pest Control required by condition 15.3(c) (iv); and iii) Identification, protection and ongoing monitoring of key habitats (e.g. maternal roosting sites and foraging sites).		HCC Ecological Management and Monitoring Plan

	g) Specific minimum standards as determined by a suitably qualified bat ecologist for minimising disturbance associated with construction activities around active roosts within the footprint of the Project or its vicinity that do not require removal. This includes the preparation of a pre-treefelling protocol following consultation with the Department of Conservation. The purpose of the pre-tree felling protocol shall be to avoid the injury or mortality of roosting long-tailed bats; and h) h)Monitoring shall be carried out over the long-tailed bat breeding season and peak activity period (beginning of November to the end of April), first commencing two (2) years prior to Construction Works starting, and continuing during construction and five (5) years post construction for the first stage of the Project, and shall ensure adequate site coverage incorporating all potential roosting and foraging habitats as well as suitable control sites.The timeframes for the monitoring in accordance with this condition shall only be triggeredwith respect to the first stage of Construction Works for any part of the Project.		
15.6	The EMMP shall outline the aquatic surveys to be undertaken by a suitably qualified and experienced ecologist/s prior to lodgement of resource consent applications with the Regional Council. These shall include, but will not be limited to: a) Fish surveys of waterways (including drains and wetlands) using a recognised protocol prior to stream crossing design to determine the fish community and therefore likely fish passage and fish recovery requirements where culverts are to be installed; and times when instream works are to be avoided so as not to adversely impact on peak periods of fish migration and spawning; and b) Surveys to determine aquatic quality and character of habitats impacted by stream crossings where instream habitats will be impacted (e.g. culverts) so that an appropriate methodology can be used to mitigate loss of ecological value that has not already been accounted for by advanced mitigation restoration (e.g. presence of mudfish)		HCC Ecological Management and Monitoring Plan
15.7	The Requiring Authority may review the EMMP at any time to make provision for the future grant of resource consents required to authorise components of the Project, and any staging of construction of the Project network, within Hamilton City. The Requiring Authority shall consult with the TWWG, Waikato Regional Council, the Territorial Authority, the Waikato River Authority, the Director-General of Conservation, the Mangakotukutuku Stream Care Group Incorporated, the Riverlea Environment Society and the NZ Transport Agency in preparing any review to the EMMP. The Requiring Authority shall submit any review of the EMMP to the Territorial Authority's Chief Executive for certification.	Advice Note: The outcomes of the EMMP will be relevant in the development of the LMP (Condition 14.3(b)).	HCC Ecological Management and Monitoring Plan
16.0	HERITAGE AND ARCHAEOLOGICAL SITE MANAGEMENT PLAN		

16.1	The Requiring Authority shall give at least twenty (20) working days written notice of the date that construction is intended to commence to: a) The Project archaeologist to establish with the contractor a working relationship that will comply with good practice during the earthworks stage of the construction; and b) The Territorial Authority; c) The TWWG to enable it to: d) Allocate a representative to liaise with the Project archaeologist, and who will be actively involved in the archaeological work associated with the Project; i. Clarify with the contractor the location of the archaeological sites and the procedures that will be observed; ii. Provide the names of their representatives who are to be contacted for cultural advice and guidance in the event of a discovery of any buried archaeological deposits found during the Project; iii. Undertake any appropriate cultural ceremonies on the archaeological sites; and iv. Arrange for the inspection of the earthworks in the vicinity of the archaeological sites.		HCC Heritage and Archaeological Site Management Plan
16.2	Prior to the commencement of Construction Works the Requiring Authority shall provide to the Territorial Authority evidence that Archaeological Authorities have been obtained, as appropriate, to modify, damage or destroy any of the known archaeological sites likely to be affected during the construction works.		HCC Heritage and Archaeological Site Management Plan
16.3	No later than forty (40) working days prior to the commencement of any earthworks or construction works, the Requiring Authority shall submit a Heritage and Archaeological Site Management Plan (HASMP) prepared by a suitably qualified and experienced archaeologist to the Territorial Authority Chief Executive or nominee for certification.		HCC Heritage and Archaeological Site Management Plan
16.4	The HASMP shall be prepared after consultation with the TWWG and with Heritage New Zealand. The objective of the HASMP is to describe the measures that will be taken to avoid or mitigate effects on archaeological sites within the designation. As a minimum the HASMP shall include the following: a) Measures that will be taken to protect or avoid archaeological sites (or insitu archaeological remains) from damage during construction; b) Roles and responsibilities associated with managing the archaeological aspects of the Project; c) Provision for training for staff and contractors in the archaeological aspects of the Project;		HCC Heritage and Archaeological Site Management Plan

	d) Provision for any revisions required to the HASMP during the course of the Project; e) An Accidental Discovery Protocol (ADP) (noting that in the event of any conflicting provisions where any part of the site is operating under an Authority from Heritage New Zealand, the ADP contained within that Authority shall take precedence) so that in the event that any archaeological sites, remains, artefacts, taonga (Maori artefacts) or koiwi are unearthed, dislodged, uncovered or otherwise found or encountered during Construction Works("the Discovery"), the Requiring Authority shall: i. Advise taangata whenua, the Project archaeologist, and the Territorial Authority as appropriate, within one day of the Discovery; ii. Cease works in any part of the Project site affected by the Discovery; iii. Contact the NZ Police, the Coroner and Heritage New Zealand as appropriate; iv. Undertake specific preservation measures to address any Discovery that includes water-logged or wet archaeological materials; and v. Not recommence works in the parts of the Project site affected by the Discovery until all necessary statutory authorisations or consents have been obtained; f) Twenty (20) working days prior to the Requiring Authority providing the HASMP or any revisions in accordance with Condition 2.5 to the Territorial Authority, a draft version of the plan will be provided to the TWWG and to Heritage New Zealand for their review. The Requiring Authority shall consider any feedback provided and provide a written response within the finalised HASMP detailing: i. Whether any feedback has been provided by the TWWG and Heritage New Zealand; ii. Where feedback has been provided, how it has been incorporated into the HASMP; and iii. Where feedback has been provided but not been incorporated into the HASMP, the reasons why not; and g) Provisions for providing any new information on archaeological sites to the New Zealand Archaeological Association for the purpose of updating the national archaeological site record database.		
16.5	Conservation Plans shall be prepared for the long-term management of those significant archaeological sites (part or whole) within the area of the designation that remain unaffected by the construction of the Project once construction is completed. Conservation Plans shall be prepared by a suitably qualified and experienced person. The Historic and Cultural Heritage Assessment Criteria employed in the Waikato Regional Policy Statement shall be used to determine if a site has sufficient significance to warrant the preparation of a Conservation Plan. All sites partly or wholly within the		HCC Heritage and Archaeological Site Management Plan

	designation will be tested against these criteria. These Conservation Plans shall: a) Not be limited to the surface visible remains but recognise the importance of sub-surface deposits; b) Be prepared by a suitably qualified archaeologist; and c) Be submitted to the Territorial Authority Chief Executive or nominee for certification.		
16.6	No later than twenty (20) working days prior to the Requiring Authority providing any Conservation Plan to the Territorial Authority Chief Executive or nominee, a draft version of the plan shall be provided to the TWWG and to Heritage New Zealand for their review. The Requiring Authority shall consider any feedback provided and provide a written response within the finalised Conservation Plans detailing: a) Whether any feedback has been provided by the TWWG and Heritage New Zealand; b) Where feedback has been provided, how it has been incorporated into the Conservation Plans; and c) Where feedback has been provided but not been incorporated into the Conservation Plans, the reasons why not.		HCC Heritage and Archaeological Site Management Plan
17.0	DRAINAGE		
17.1	Subject to the requirement of any resource consent, the construction and operation of the Project shall not increase flooding risk to surrounding land and/or property.		This Plan CEMP
18.0	NETWORK INFRASTRUCTURE		
18.1	To ensure that there are no interruptions to supply or adverse effects on network utility infrastructure, the Requiring Authority shall, subject only to reasonable planned interruption, either: a) Protect the utility from any activity which may interfere with the proper functioning of the services; or b) Seek to relocate it to the same or a similar standard (including property rights) as the operator currently has; or c) Seek to repair or replace, at the Requiring Authority's expense, any infrastructure damaged during construction to the reasonable satisfaction of the affected network utility operator.		This Plan CEMP
19.0	DUST MANAGEMENT PLAN		
19.1	Prior to the commencement of Construction Works, the Requiring Authority shall prepare a Dust Management Plan (DMP). The DMP shall be prepared by a suitably qualified and experienced person. The Requiring Authority shall implement the DMP at all times during the Project. The objective of the DMP shall be to ensure that Construction Works are undertaken in a manner to ensure that no discharge of airborne particulate matter (dust) causes an adverse effect on the amenity value of any person beyond the designation boundary.		DMP

19.2	The DMP shall be provided to the Territorial Authority Chief Executive or nominee for certification at least forty (40) working days prior to the commencement of Construction Works.		DMP
19.3	As a minimum the DMP shall include the following details: a) Mitigation measures to be implemented during construction to minimise dust emissions; b) Methods for the daily visual monitoring of dust emissions and assessing the effectiveness of the mitigation measures implemented; c) Procedures for responding to process malfunctions and accidental dust discharges; d) Criteria, including consideration of weather conditions and procedures, for the use of water sprays on stockpiles and operational areas of the Project; e) Continuous monitoring of meteorology; f) Monitoring of construction vehicle maintenance; g) Complaints investigation, monitoring and reporting; h) The identification of staff and contractors' responsibilities; and i) Appropriate DMP review procedures.		DMP
20.0	CONTAMINATED SOIL MANAGEMENT PLAN		
20.1	Prior to the commencement of Construction Works, the Requiring Authority shall engage a Suitably Qualified and Experienced Practitioner to prepare a Contaminated Soil Management Plan (CSMP). The Requiring Authority shall implement the CSMP at all times during the Project. The objective of the CSMP shall be to avoid, remedy or mitigate the adverse effects of Construction Works on human health and the environment which may result from the disturbance of contaminated soil/material.		HSMP
20.2	The CSMP shall be provided to the Territorial Authority Chief Executive or nominee for certification at least forty (40) working days prior to the commencement of Construction Works.		HSMP
20.3	As a minimum the CSMP shall include the following details: a) Details of any investigation, assessment, reporting and management of contaminated land or potentially contaminated land that has been carried out; b) The measures to be undertaken in the handling, storage and disposal of all contaminated material excavated during the construction works; c) The soil validation testing that will be undertaken; d) The soil verification testing that will be undertaken to determine the nature of any contamination in excavated spoil and the potential reuse or disposal options for that spoil; e) How the placement of any re-used contaminated soil / material will be recorded and tracked;		HSMP

	f) Measures to be undertaken in the event of unexpected contamination being identified during construction activities, including measures to: i. Assist with identification of unknown contaminated material; and ii. Stop work or isolate the area once any such material is identified; g) The measures to be undertaken to: i. Protect the health and safety of workers and the public; ii. Control stormwater runon and runoff; iii. Remove or manage any contaminated soil; and iv. Remediate any required sites; h) The measures to be undertaken to: i. Identify any suspected asbestos; ii. Identify the type of asbestos and confirm the appropriate means by which it shall be removed; and iii. Handle any asbestos containing material.		
20.4	A Suitably Qualified and Experienced Practitioner shall supervise the implementation of the measures required in Condition 20.3 above.		HSMP
20.5	At the completion of the construction of the Project, a validation report shall be prepared by a Suitably Qualified and Experienced Practitioner in accordance with any Ministry for the Environment guideline and the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health, and be submitted to the Territorial Authority Chief Executive or nominee documenting the management of contaminated soil and evidence of appropriate disposal. The validation report shall include a record of all analytical results, volumes, tip receipts, and any incidents or complaints and how these were addressed. The validation report shall also identify any areas which need on-going monitoring and management by the Requiring Authority.	Advice Note: A Suitably Qualified and Experienced Practitionerhas the same meaning as described in the Users' Guide for the National Environmental Standard for Assessing and Managing Contaminants in Soil to Protect Human Health (Ministry for the Environment, April 2012).	HSMP
21.0	HAZARDOUS SUBSTANCES MANAGEMENT PLAN		
21.1	Prior to the commencement of Construction Works, the Requiring Authority shall prepare a Hazardous Substances Management Plan (HSMP). The HSMP shall be prepared by a suitable qualified and experienced person. The Requiring Authority shall implement the HSMP at all times during the Project. The objective of the HSMP shall be to avoid, remedy or mitigate the adverse effects of Construction Works on human health and the environment which may result from the use of hazardous substances.		HSMP
21.2	The HSMP shall be provided to the Territorial Authority Chief Executive Officer or nominee for certification at least forty (40) working days prior to the commencement of Construction Works.		HSMP

21.3	As a minimum the HSMP shall include the following details: a) Details of the type and volumes of hazardous substances to be used and stored during the construction phase of the Project; b) Procedures for the proper storage, handling, transport and disposal of hazardous substances in accordance with best practice and national standards and regulations; c) The equipment, systems and procedures to be used to minimise the risk of spills or leaks of hazardous substances; d) Procedures to notify and report to the Territorial Authority within 24 hours of a spill or leak involving 10 litres or more of a hazardous substance occurring; and e) Procedures to be followed to identify causes of spills or leaks of a hazardous substance and to avoid their recurrence.		HSMP
22.0	CONSTRUCTION LIGHTING		
	The Requiring Authority shall implement procedures at all times during construction to manage light spill (if any) to residences from any night lighting that is required on the site.		This Plan CEMP
23.0	OPERATIONAL CONDITIONS		
23.1	OPERATIONAL NOISE		
	For the purposes of Conditions 23.2-23.20the following terms will have the following meanings: a) BPO–means the Best Practicable Option. b) Noise Assessment–means the Noise Assessment prepared in accordance with Condition 23.2. c) NZS 6806:2010–means New Zealand Standard NZS 6806:2010 Acoustics –Road-traffic noise –New and altered roads. d) Noise Criteria Categories–means the 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. e) PPF –means only the premises and facilities identified in green, orange or red in the Noise Assessment. f) Structural Mitigation–has the same meaning as in NZS 6806:2010. g) Original Noise Report–the assessment of road traffic noise and construction noise effects prepared by Opus International Consultants Ltd, report reference 231635.09 as lodged with the Notice of Requirement.		N/A
	NOISE ASSESSMENT REPORT (PRIOR TO CONSTRUCTION)		
23.2	The Requiring Authority shall appoint a suitably qualified acoustics specialist, a suitably qualified planner approved by the Council, and other designers, to determine the BPO for road-traffic noise mitigation in accordance with NZS 6806:2010. No later		N/A

	than six (6) months prior to Construction Works starting, the Requiring Authority shall submit to the Territorial Authority Chief Executive or nominee a Road-traffic Noise Assessment Report ('Noise Assessment') detailing the assessment process, 'Selected Options' for noise mitigation, and the Noise Criteria Categories for all PPFs ('Identified Categories'). The Requiring Authority shall implement the Selected Options for noise mitigation identified in the Noise Assessment as part of the Project, in order to achieve the Identified Categories where practicable, subject to Conditions 23.4–23.20below.		
23.3	The Noise Assessment shall only consider those PPFs existing on the date the Notice of Requirement was publicly notified (29January 2014), including PPFs at the properties set out in the attached PPF list (Annexure1to these conditions).		N/A
23.4	The detailed design of the Structural Mitigation measures of the Selected Options (the "Detailed Mitigation Options") shall be undertaken by a suitably qualified acoustics specialist prior to Construction Works commencing and, subject to Condition 23.5, shall include, as a minimum, the following: a) Noise barriers with the location, length and height in general accordance with the Noise Assessment; and b) Low-noise road surfaces in general accordance with the Noise Assessment.		N/A
	AMENDMENTS TO NOISE ASSESSMENT REPORT		
23.5	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 Selected Options then either: a) if the design of the Structural Mitigation measure could be changed so that it would still achieve the same Identified Category A or Category B at all relevant PPFs, and a suitably qualified planner approved by the Hamilton City Council certifies to the Council that the changed Structural Mitigation is consistent with adopting the BPO in accordance with NZS6806:2010, the Detailed Mitigation Options may include the changed mitigation measure; or, if that is not practicable, 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 a suitably qualified planner approved by the Hamilton City Council certifies to the Council that the changed Structural Mitigation is consistent with adopting the BPO in accordance with NZS6806:2010, the Detailed Mitigation Options may include the changed mitigation measure.		N/A
23.6	The Detailed Mitigation Options shall be implemented prior to completion of construction of the Project, with the exception of any low-noise road surfaces, which shall be implemented within twelve (12) months of completion of construction.		N/A
	OPERATIONAL NOISE LIMITS		

23.7	Notwithstanding conditions 23.1 to 23.6, the Noise Assessment Report and the final design of the Detailed Mitigation Options: a) Shall not permit the noise level at any PPF to exceed LAeq(24hr) 57dB;or: b) The noise level shall not exceed the level that is predicted for the most effective Structural Mitigation measure as set out in the Original Noise Report. Whichever level is higher.		N/A
	OPERATIONAL NOISE MONITORING		
23.8	Prior to construction, the Requiring Authority shall arrange for a suitably qualified and experienced acoustics specialist approved by the Territorial Authority Chief Executive or nominee to undertake a minimum of 10 (ten) representative measurements of ambient noise levels. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.		N/A
23.9	Following completion of the work, the Requiring Authority shall arrange for a suitably qualified and experienced acoustics specialist approved by the Territorial Authority Chief Executive or nominee to undertake traffic noise monitoring at the same sites surveyed in Condition 23.8 above, within 2 years following completion of construction of the Project, and following the application of any low-noise road surfaces that are required. Measurements shall be undertaken in accordance with the requirements of Section 5.2 of NZS6806:2010.		N/A
23.10	The results of the noise level monitoring in accordance with Condition 23.8above shall be used to verify the computer noise model of the Detailed Mitigation Options. Where monitoring identifies that the applicable standards of Condition 23.7above are not being met, the Requiring Authority shall undertake mitigation measures to ensure compliance is achieved as soon as practicable.		N/A
23.11	A report describing the findings of monitoring required by conditions 23.9 and 23.10 shall be provided to the Territorial Authority Chief Executive or nominee within one month of the measurements in 23.9 being completed. The Report shall include (as a minimum): a) Comparison of the results to the computer noise model of the Detailed Mitigation Options; b) Identification of where compliance with the requirements of Condition 23.7 have been achieved; and c) Identification of where compliance with the requirements of Condition 23.7 have not been achieved and the mitigation measures proposed to ensure compliance is achieved as soon as practicable.		N/A
	CATEGORY C PPFS		
23.12	Prior to construction of the Project, a suitably qualified acoustics specialist shall identify those PPFs which, following implementation of all the Structural Mitigation included in the Detailed Mitigation Options, are not in Noise Categories A or B and where Building-Modification Mitigation may be required		N/A

	to achieve 40dB LAeq (24h) inside habitable spaces ('Category C Buildings').		
23.13	Prior to commencement of Construction Works in the vicinity of a Category C Building, the Requiring Authority shall write to the owner of each Category C Building seeking access to such building for the purpose of measuring internal noise levels and assessing the existing building envelope in relation to noise reduction performance.		N/A
23.14	If the owner(s) of the Category C Building allows the Requiring Authority access to the property within twelve (12) months of the date of the Requiring Authority's letter (sent pursuant to Condition 23.13), then no more than twelve (12) months prior to commencement of construction of the Project, the Requiring Authority shall instruct a suitably qualified acoustics specialist to visit the building to measure internal noise levels and assess the existing building envelope in relation to noise reduction performance.		N/A
23.15	Where a Category C Building is identified, the Requiring Authority shall be deemed to have complied with Conditions 23.13 or 23.14 above where: a) The Requiring Authority (through its acoustics specialist) has visited the building; or b) The owner of the Category C Building allows the Requiring Authority's access, but the Requiring Authority could not gain entry for some relevant reason (such as entry denied by a tenant); or c) The owner of the Category C Building did not allow the Requiring Authority access to the property within the time period set out in Condition 23.14 (including where the owner(s) did not respond to the Requiring Authority letter (sent pursuant to Condition 23.13within that period)); or d) The owner of the Category C 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 Category C Building, the Requiring Authority shall not be required to implement any Building-Modification Mitigation at that Category C Building.		N/A
23.16	Subject to Condition 23.15, within six (6) months of the assessment required under Condition 23.14, the Requiring Authority shall give written notice to the owner of each Category C Building: a) Advising of the options available for Building-Modification Mitigation to the building; and b) Advising that the owner has six (6) months within which to decide whether to accept Building-Modification Mitigation for the building, and if the Requiring Authority has advised the owner that more than one option for Building-Modification Mitigation is available, to advise which of those options the owner prefers.		N/A
23.17	Once an agreement on Building-Modification Mitigation is reached between the Requiring Authority and the owner of an affected building, the mitigation shall be implemented (including		N/A

	the Requiring Authority obtaining any third party authorisations required to implement the mitigation) in a reasonable and practical timeframe agreed between the Requiring Authority and the owner.		
23.18	Subject to Condition 23.15, where Building-Modification Mitigation is required, the Requiring Authority shall be deemed to have complied with Condition 23.10 above where: a) The Requiring Authority has completed Building-Modification Mitigation to the Category C Building; or b) The owner of the Category C Building did not accept the Requiring Authority offer to implement Building-Modification Mitigation prior to the expiry of the timeframe stated in Condition 23.16 (b) above (including where the owner did not respond to the Requiring Authority within that period); or c) The owner of the Category C Building cannot, after reasonable enquiry, be found prior to completion of construction of the Project.		N/A
	MAINTENANCE OF DETAILED MITIGATION MEASURES		
23.19	The Requiring Authority shall manage and maintain the Detailed Mitigation Options to ensure that, to the extent practicable, those mitigation works retain their noise reduction performance for at least ten (10) years after the opening of the Project to the public.		N/A
23.20	Within twelve (12) months of opening any new section of road to the public, the Requiring Authority shall submit a post-construction noise review report to the Territorial Authority Chief Executive or nominee. The report shall include details of the following post-construction verification checks and actions: a) The noise model used for the assessment required by condition23.2shall be rerun using the as-built positions of roads, earthworks and barriers. Any differences from the Identified Categories, not previously assessed in accordance with condition23.5, shall be reported. b) A visual inspection of each noise barrier shall be made from the far edge of the road corridor at the closest point to each PPF or cluster of PPFs. The relationship of the PPFs and barrier shall be compared with that shown in the noise model. The height above local ground level of each noise wall shall be physically measured and noise walls shall be inspected to check for any gaps. c) Road surfaces shall be visually inspected to confirm they are of the type assumed in the noise model. d) Any remedial actions to address issues identified in checks required by conditions 23.20(a), (b) and (c) above.		N/A
24.0	TRANSPORT NETWORK MANAGEMENT PLAN		
24.1	As part of the outline plan, the Requiring Authority shall submit a Transport Network Management Plan (TNMP), to be certified by the Territorial Authority Chief Executive or nominee. The objective of the TNMP is to provide a framework to ensure that any adverse effects associated with the operation of the Project can		N/A

	be avoided, remedied or mitigated. The TNMP shall describe proposed procedures, requirements and standards necessary for achieving the objective of the TNMP and shall include (but not be limited to): a) An updated Design Philosophy Statement that establishes the standards, philosophies and references for construction final design outcomes required to achieve the objective of the TNMP. This shall include the intersection design philosophy as a part of a whole-route approach to road and intersection management and operation. b) The localised traffic impacts together with accompanying mitigation measures required as a direct or indirect result of road closures, diversions, new intersection arrangements and other measures needed to accommodate the Project; c) The provision of cycle infrastructure and the design of cycle features and whether they are consistent with current best practice guidelines; g)The provision of pedestrian infrastructure and whether the design of pedestrian infrastructure is consistent with current best practice guidelines; d) Consideration of staged bus service infrastructure features such as, but not limited to: i. Bus priority detection equipment at all signalised intersections along the route; ii. Bus stopping lay-bys at appropriate locations along the route; iii. Passenger waiting facilities and shelters with bus information as part of the final road design; and iv. Bus priority measures at all non-signalised, controlled intersections; e) The provision of pedestrian and cyclist connectivity to and from Hamilton Gardens and along the Waikato River and Peacocke gully system; and f) The provision of pedestrian and cyclist connectivity from areas west of the Peacocke North-South Major Arterial to areas east of the arterial in the vicinity of the Glenview Club.		
24.2	In managing traffic safety effects across the whole of the Project (or staged Project) at the detailed design stage, the Requiring Authority shall undertake a Road Safety Audit for the relevant stage of the Project in accordance with NZ Transport Agency's Road Safety Audit (RSA) for Projects. A copy of the RSA shall be provided to the Territorial Authority Chief Executive or nominee.		N/A
24.3	In managing traffic effects of the completed Works (or staged completed Works) at their implementation as operational measures, the Requiring Authority shall undertake a Post Implementation Review (PIR) in accordance with NZ Transport Agency's PIR policy, having regard to the Project objectives and the objectives of the TNMP. A copy of the PIR shall be provided to the Territorial Authority Chief Executive or nominee.		N/A
25.0	IMPLEMENTATION OF LANSCAPE MANAGEMENT PLAN		

25.1	The landscape and visual mitigation measures identified in the approved LMP(s) shall be implemented: a) As soon as areas become available for planting due to the progress of the works (having regard to the relevant planting season); and/or b) Within twelve months of the road construction being issued a Certificate of Practical Completion in accordance with NZS 3910:2013 Conditions of Contract for Building and Civil Engineering Construction, unless the seasonal timing of works makes some planting impracticable, in which case such planting shall be completed no later than twenty four (24)months after the issue of the Certificate.		N/A
26.0	MAINTENANCE AND MONITORING OF LANDSCAPE MANAGEMENT PLANS		
26.1	The Requiring Authority shall undertake inspections at one (1) year, two (2) years and five (5) years after the implementation of the LMP(s) in accordance with Condition 25.1 to confirm that the planting has been completed and that significant areas and plants have established successfully. A report from a suitably qualified and experienced landscape architect on the outcome of each inspection shall be forwarded to the Territorial Authority Chief Executive or nominee within one month of completion. Each report shall identify any significant areas of planting that have not become established and shall recommend if and when any remedial works should be undertaken. Any recommendations madein the report for remedial works shall be implemented.		N/A
27.0	OPERATIONAL LIGHTING		
27.1	Lighting shall be designed and screened to minimise the amount of lighting overspill and illumination of existing dwelling, and shall ensure that: a) All carriageway lighting is designed in accordance with "Road Lighting Standard AS/NZS1158"; and b) All other lighting is designed in accordance with the relevant rules of the Operative Hamilton City District Plan.		N/A

Advisory Notes	
Regional Consents All necessary consents must be obtained from the Waikato Regional Council prior to commencement of construction works.	
Authority under the Heritage New Zealand Pouhere Taonga Act 2014 The Requiring Authority will need to obtain an authority from Heritage New Zealand to destroy, damage or modify any archaeological sites in accordance with the Heritage New Zealand Pouhere Taonga Act 2014.	
Consultation and Liaison with Regional and Local Agencies The Requiring Authority should carry out adequate and timely consultation with regional and local agencies such as the Waikato Regional Council, Waikato District Council and Waipa District Council (or their successors) with regard to	

programming and planning commencement of Construction Works and provide a timetabled construction plan.	
Tangata Whenua Contact Details Contact details for the hapu listed in the conditions above can be obtained through the office of Waikato-Tainui.	
Wildlife Act 1953 The requirements of condition 15are in addition to any obligation the Requiring Authority has in respect of absolutely protected wildlife under the Wildlife Act 1953.	