Annex A

TE AHU A TURANGA MANAWATU TARARUA HIGHWAY PROJECT

COMPLIANCE REPORT

17 FEBRUARY 2021

horizons
REGIONAL COUNCIL

CONTENTS

REPORT SUMMARY

This compliance report includes all compliance assessments, inspections and associated monitoring activities, across all zones, completed between the 10th - 16th of February 2021.

OVERVIEW

The overall compliance and gradings across all zones for the reporting period:

EROSION & SEDIMENT CONTROL GRADING SUMMARY

98	Grade 1
0	Grade 2
4	Grade 3
0	Grade 4

COMPLIANCE SUMMARY

73	Full Compliance
1	Compliance Achieved (at Risk)
4	Non-Compliance (Low Risk)
5	Non-Compliance (Moderate Risk)
0	Significant Non-Compliance

RECOMMENDED ACTIONS IDENTIFIED FOR

Zone 0 | Secondary Treated Domestic Blackwater Irrigation Discharge

Zone 0 | Bridge BR02 Access Track & Western Car Park Construction

ZONE 0 ENABLING WORKS COMPLIANCE

This section summarises all compliance assessments, inspections and associated monitoring activities completed in the zone, for the reporting period.

PERFORMANCE SUMMARY

The overall compliance and gradings across the zone for the reporting period:

EROSION & SEDIMENT CONTROL GRADING SUMMARY

89	Grade 1
0	Grade 2
4	Grade 3
0	Grade 4

COMPLIANCE SUMMARY

65	Full Compliance
1	Compliance Achieved (at Risk)
4	Non-Compliance (Low Risk)
5	Non-Compliance (Moderate Risk)
0	Significant Non-Compliance

RECOMMENDED ACTIONS IDENTIFIED FOR

ATH-2020203568 Secondary Treated Domestic Blackwater Subsurface Irrigation Discharge
ATH-2020203616 Bridge BR02 Access Track & Temporary Western Car Park Construction

COMPLIANCE MONITORING

Compliance assessments undertaken in the reporting period include site inspections, office assessments, meetings and monitoring of resource consent conditions.

ATH-2020203568 SECONDARY TREATED DOMESTIC BLACKWATER SUBSURFACE IRRIGATION DISCHARGE (SITE OFFICE COMPOUND)

NON-COMPLIANCE (LOW RISK)

RECOMMENDED ACTIONS

By 3 March | Provide Flow Meter Installation Certificate
By 3 March | Provide As-Built Certificates
By 3 March | Provide Treatment System As-Built or Producer Statement
By 3 March | Provide Evidence that Treatment System Meets the Standard

COMPLIANCE INSPECTION

Undertaken by Georgia Baker, 9 February

Checked document entitled 'F&H Gorge site office' by O'Hagan Contracting dated June 2020 which details loading rate as 2.66 litres/m2/day. However, no 'as built' has been provided to date to confirm this (condition 8).

No evidence to determine if the treatment system has been installed to meet the standard (condition 4).

An annotated photograph was provided for the reserve land, but the expectation is an As-Built or producer statement would be provided to validate the 50% reserve application area meets the condition (condition 6).




AUTHORISATION CONDITION ASSESSMENT

CONDITION 4 | NON-COMPLIANCE (LOW RISK)

The consent holder shall ensure that the wastewater treatment and disposal system is installed to the on-site domestic wastewater management standard AS/NZS 1547:2012, and in general accordance with the concepts and parameters contained in the application documentation.

CONDITION 6 | NON-COMPLIANCE (LOW RISK)

The consent holder shall make available, a 50% reserve land application area, as shown on Site Plan LOC-2020804925 on the property that is fully operational and can be used in the event that the main land application area is unavailable.

CONDITION 8 | COMPLIANCE ACHIEVED (AT RISK)

The areal loading rate (maximum) of the secondary treated wastewater to land shall not exceed 2.7 millimetres per day.

CONDITION 12 | FULL COMPLIANCE

The consent holder shall ensure that the wastewater system is installed by an appropriately experienced and qualified registered drainlayer to industry standards in accordance with design specifications outlined in the application.

FLOW EQUIPMENT INSTALLATION

Assessed by Georgia Baker, 16 February

Installation certificate not received. Please provide no later than 3 March 2021.

AUTHORISATION CONDITION ASSESSMENT

CONDITION 3 | NON-COMPLIANCE (LOW RISK)

Prior to commencement of the discharge, the consent holder shall install and maintain an inline flow meter on the inflow line to the Oasis SAFE 5000 treatment plant.

PLAN OR REPORT

Assessed by Hamish Sutherland, 16 February

As-built plans not yet received.

AUTHORISATION CONDITION ASSESSMENT

CONDITION 18 | NON-COMPLIANCE (LOW RISK)

Within three (3) months of the wastewater system installation, the consent holder must supply the Manawatū-Whanganui Regional Council Consents Monitoring Team with a copy of the 'as-built' plans and an Onsite Wastewater Management Plan, showing the key components of the wastewater system including LAA and provide site photographs of fencing and planting of the LAA as required under Conditions 4 and 6 of this consent. ADVICE NOTE: The as-built plans can be supplied by emailing consents.monitoring@horizons.govt.nz.

ATH-2020203989 EASTERN ACCESS TRACK CONSTRUCTION SEDIMENT DISCHARGE

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Hamish Sutherland, 16 February 10:20 am

WEATHER ASSESSMENT

Cool (10-20°C) Air Temperature
Light Rainfall
8 Oktas (Sky Completely Cloudy) Cloud Cover
South Easterly Wind Direction
Fresh Breeze (29-38 kph) Wind Strength

SEDIMENT RETENTION POND SRP CH12800 CATCHMENT

SRP under construction and as builts to be provided. De-watering ESCP contingency in effect. CWD bunds and turfing in place.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions
G1 Dirty Water Diversion Channels

SURFACE STABILISATION

G1 Turfing

SEDIMENT CONTROL PRACTICES

G1 Silt Fences

EARTHWORKS (CUT N COVER) EASTERN ACCESS ENTRANCE COMPOUND CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

SURFACE STABILISATION

G1 Turfing

G1 Geotextiles & Control Blankets

G1 Aggregate

SEDIMENT CONTROL PRACTICES

G1 Silt Fences

AUTHORISATION CONDITION ASSESSMENT

CONDITION 7 | FULL COMPLIANCE

The consent holder shall undertake the works in accordance with the lodged Erosion and Sediment Control Plan (E&SCP) titled 'Eastern Access Erosion and Sediment Control Plan, dated 7 April 2020, and any subsequent changes certified under Condition 8 of this consent.

ADVICE NOTE: The E&SCP referenced in this condition has been approved through the processing of the consent. Any reference to 'certified E&SCP' in subsequent conditions refers to the above referenced E&SCP and any certified amendments provided for in condition 8.

CONDITION 15 | FULL COMPLIANCE

The consent holder shall ensure that sediment losses to natural water arising from the exercise of these resource consents are minimised during the duration of the works and during the term of this consent. In this regard, erosion and sediment control measures shall be established and maintained in accordance with the document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”, and the certified E&SCP.

CONDITION 21 | FULL COMPLIANCE

The consent holder must ensure that all sediment laden run-off from the site is treated by sediment retention structures, devices or measures. These structures are to be fully operational before bulk earthworks commence and shall be maintained to perform at least at 80% of their operational capacity and in accordance with document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”.

CONDITION 33 | FULL COMPLIANCE

The consent holder must ensure that an all-weather access to the erosion and sediment control measures is maintained at all times.

CONDITION 40 | FULL COMPLIANCE

The consent holder shall progressively stabilise, re-contour and re-vegetate any disturbed areas and identified areas within the certified Erosion and Sediment Control Plan to minimise sediment runoff and erosion until the site has been stabilised in accordance with the measures detailed in the document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”.

CONDITION 42 | FULL COMPLIANCE

The consent holder shall ensure that all erosion and sediment control structures are inspected on a weekly basis and within twenty-four (24) hours of each rainstorm event that is likely to impair the function or performance of the controls.

ATH-2020203616 BRIDGE BR02 ACCESS TRACK & TEMPORARY WESTERN CAR PARK CONSTRUCTION

NON-COMPLIANCE (MODERATE RISK)

RECOMMENDED ACTIONS

By 19 February | Replace BR02 Access Track Silt Fence with Super Silt Fence and provide photos.

By 23 February | Commence progressive stabilisation at top of BR02 Access Track cut by next inspection.

By 23 February | Remove BR02 Access Track cut stockpile to BR02 SRP2 catchment or divert discharge from stockpile to BR02 SRP2 catchment.

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Hamish Sutherland, 16 February 10:30 am

WEATHER ASSESSMENT

Cool (10-20°C) Air Temperature
Light Rainfall
8 Oktas (Sky Completely Cloudy) Cloud Cover
South Easterly Wind Direction
Moderate Breeze (20-28 kph) Wind Strength

EARTHWORKS (CUT N COVER) BR02 ACCESS TRACK CATCHMENT

Inspection undertaken following advisement of silt fence failure by Alliance. Inspection noted a silt fence had been installed rather than a super silt fence as required by ESCP, also the ESCP required progressive stabilisation of the BR02 cut as it was advanced and this was not achieved. It was also noted that a large stockpile from the cut had been placed in the compound area and should have removed to the BR02 SRP2 catchment reducing the load against the silt fence.

WATER MANAGEMENT CONTROLS

G3 Contour (Cut-Off) Drains

SURFACE STABILISATION

G3 Geopolymers or Soil Binders

G3 Aggregate

SEDIMENT CONTROL PRACTICES

G3 Super Silt Fences




SEDIMENT RETENTION POND BR02 SRP2 CATCHMENT

Inspection undertaken by G Baker report completed by G Baker and H Sutherland.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

G1 Entrance Stabilisation Controls

SURFACE STABILISATION

G1 Turfing

G1 Mulching

G1 Geotextiles & Control Blankets

SEDIMENT CONTROL PRACTICES

G1 Sediment Retention Pond

G1 Silt Fences

G1 Coagulant & Flocculant Treatment

SEDIMENT RETENTION POND BR02 SRP1 CATCHMENT

Inspection undertaken by G Baker report completed by G Baker and H Sutherland.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions
G1 Dirty Water Diversion Channels
G1 Entrance Stabilisation Controls

SURFACE STABILISATION

G1 Topsoil & Grass Seeding
G1 Hydroseeding
G1 Turfing
G1 Geotextiles & Control Blankets
G1 Aggregate

SEDIMENT CONTROL PRACTICES

G1 Sediment Retention Pond
G1 Silt Fences
G1 Coagulant & Flocculant Treatment

AUTHORISATION CONDITION ASSESSMENT

CONDITION 7 | NON-COMPLIANCE (MODERATE RISK)

The consent holder shall undertake the works in accordance with the lodged Erosion and Sediment Control Plan (E&SCP) titled 'Bridge Access and Structure Compound Erosion and Sediment Control Plan', dated 8 July 2020, and any subsequent changes certified under Condition 8 of this consent.

ADVICE NOTE: The E&SCP referenced in this condition has been approved through the processing of the consent. Any reference to 'certified E&SCP' in subsequent conditions refers to the above referenced E&SCP and any certified amendments provided for in condition 8.

CONDITION 9 | FULL COMPLIANCE

The consent holder shall ensure that a copy of the certified E&SCP, including any certified amendments, is kept onsite and this copy is updated within five (5) working days of any amendments being certified.

CONDITION 11 | FULL COMPLIANCE

The sites sediment retention pond and decanting earth bunds shall be chemically treated throughout the duration of earthworks in accordance with the Chemical Treatment Management Plan (CTMP) titled 'Appendix B Chemical Treatment Management Plan – Bridge Access, Temporary Carpark and Site Compound' dated 13 May 2020.

CONDITION 13 | FULL COMPLIANCE

The consent holder must engage a suitably qualified geotechnical engineer to ensure that the cut slopes and fill sites are appropriately assessed for stability during and following the filling operation. The engineer must also ensure there is appropriately installed drainage to ensure long term stability of the works.

CONDITION 15 | NON-COMPLIANCE (MODERATE RISK)

The consent holder shall ensure that sediment losses to natural water arising from the exercise of these resource consents are minimised during the duration of the works and during the term of this consent. In this regard, erosion and sediment control measures shall be established and maintained in accordance with the document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)", and the certified E&SCP.

CONDITION 16 | FULL COMPLIANCE

All earthmoving machinery, pumps, generators and ancillary equipment shall be operated in a manner, which ensures 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 water body, ephemeral water body, or overland flow path, such that any spillage can be contained so that it does not enter surface water.

CONDITION 17 | NON-COMPLIANCE (MODERATE RISK)

The consent holder shall ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the site shall be diverted away from the exposed areas via a stabilised system to prevent erosion. The consent holder shall also ensure the outfall(s) of these systems are protected against erosion.

CONDITION 21 | NON-COMPLIANCE (MODERATE RISK)

The consent holder must ensure that all sediment laden run-off from the site is treated by sediment retention structures, devices or measures. These structures are to be fully operational before bulk earthworks commence and shall be maintained to perform at least at 80% of their operational capacity and in accordance with document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)".

CONDITION 22 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

CONDITION 30 | FULL COMPLIANCE

The consent holder must ensure that an all-weather access to the erosion and sediment control measures is maintained at all times.

CONDITION 37 | FULL COMPLIANCE

The consent holder must stockpile all topsoil stripped from the site to which this consent relates and shall use this topsoil for rehabilitation purposes.

CONDITION 39 | NON-COMPLIANCE (MODERATE RISK)

The consent holder shall progressively stabilise, re-contour and re-vegetate any disturbed areas and identified areas within the certified Erosion and Sediment Control Plan to minimise sediment runoff and erosion until the site has been stabilised in accordance with the measures detailed in the document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)".

CONDITION 42 | FULL COMPLIANCE

The consent holder shall carry out monitoring and maintenance of erosion and sediment controls in accordance with the conditions of this resource consent and the certified E&SCP and shall maintain records detailing:

On site rainfall; and

The date, time and results of the monitoring undertaken; and

The erosion and sediment controls that required maintenance; and

The date and time when the maintenance was completed.

These records shall be available to be provided to the Manawatū-Whanganui Regional Council at all reasonable times and within seventy-two (72) hours of a written request to do so.

ADVICE NOTE: Until such time as the weather station at this site is set up, rainfall measurements from the closest rain station or a rain gauge onsite will be considered to meet the requirements of this condition.

ATH-2020203464 TE ĀPITI WIND FARM TURBINE TAP06-TAP07 TEMPORARY ACCESS TRACK CONSTRUCTION (CABLE MR04)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Hamish Sutherland, 16 February 11:16 am

SEDIMENT RETENTION POND SRP1 MR04 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions
G1 Dirty Water Diversion Channels
G1 Entrance Stabilisation Controls
G1 Surface Roughening

SURFACE STABILISATION

G1 Hydroseeding
G1 Turfing
G1 Geotextiles & Control Blankets
G1 Geopolymers or Soil Binders

SEDIMENT CONTROL PRACTICES

G1 Sediment Retention Pond
G1 Silt Fences
G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB1 MR04 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions
G1 Dirty Water Diversion Channels
G1 Pipe Drop Structures & Flumes

SURFACE STABILISATION

G1 Turfing
G1 Geotextiles & Control Blankets

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds
G1 Silt Fences
G1 Silt Socks
G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB2 MR04 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions
G1 Dirty Water Diversion Channels

SURFACE STABILISATION

G1 Turfing
G1 Geotextiles & Control Blankets

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds
G1 Silt Fences
G1 Coagulant & Flocculant Treatment

AUTHORISATION CONDITION ASSESSMENT

CONDITION 4 | FULL COMPLIANCE

A copy of these consents shall be kept onsite at all times that physical works authorised by this resource consent are being undertaken and shall be produced without unreasonable delay upon request from a servant or agent of the Manawatū-Whanganui Regional Council.

ADVICE NOTE: An electronic version on a smartphone or electronic device is acceptable.

CONDITION 7 | FULL COMPLIANCE

The consent holder shall undertake the works in accordance with the lodged Erosion and Sediment Control Plan (E&SCP) titled 'MR04 Cable Relocation Erosion and Sediment Control Plan', dated 24 July 2020, and any subsequent changes certified under Condition 9 of this consent.

ADVICE NOTE: The E&SCP referenced in this condition has been approved through the processing of the consent. Any reference to 'certified E&SCP' in subsequent conditions refers to the above referenced E&SCP and any certified amendments provided for in condition 8.

CONDITION 10 | FULL COMPLIANCE

The consent holder shall ensure that a copy of the certified E&SCP, including any certified amendments, is kept onsite and this copy is updated within five (5) working days of any amendments being certified.

CONDITION 12 | FULL COMPLIANCE

The sites sediment retention pond and decanting earth bunds shall be chemically treated throughout the duration of earthworks in accordance with the Chemical Treatment Management Plan (CTMP) titled 'Appendix B Chemical Treatment Management Plan – MR04 Temporary Access Track' dated 24 July 2020.

CONDITION 14 | FULL COMPLIANCE

The consent holder must engage a suitably qualified geotechnical engineer to ensure that the cut slopes and fill sites are appropriately assessed for stability during and following the filling operation. The engineer must also ensure there is appropriately installed drainage to ensure long term stability of the works.

CONDITION 17 | FULL COMPLIANCE

The consent holder shall ensure that sediment losses to natural water arising from the exercise of these resource consents are minimised during the duration of the works and during the term of this consent. In this regard, erosion and sediment control measures shall be established and maintained in accordance with the document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)", and the certified E&SCP.

CONDITION 18 | FULL COMPLIANCE

All earthmoving machinery, pumps, generators and ancillary equipment shall be operated in a manner, which ensures 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 water body, ephemeral water body, or overland flow path, such that any spillage can be contained so that it does not enter surface water.

CONDITION 19 | FULL COMPLIANCE

The consent holder shall ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the site shall be diverted away from the exposed areas via a stabilised system to prevent erosion. The consent holder shall also ensure the outfall(s) of these systems are protected against erosion.

CONDITION 20 | FULL COMPLIANCE

The consent holder must ensure that all sediment laden run-off from the site is treated by sediment retention structures, devices or measures. These structures are to be fully operational before bulk earthworks commence and shall be maintained to perform at least at 80% of their operational capacity and in accordance with document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)".

CONDITION 21 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/ or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

CONDITION 26 | FULL COMPLIANCE

Stockpiles of topsoil must be located at least 100m from the base of any Te Āpiti Wind Farm turbine.

ADVICE NOTE: This condition has been included on the basis of the Augier principle (Augier v Secretary of state for the Environment (1978) 38 P & CR 219) and is an agreement between Waka Kotahi NZ Transport Agency and Meridian Energy Limited.

CONDITION 30 | FULL COMPLIANCE

The consent holder must ensure that an all-weather access to the erosion and sediment control measures is maintained at all times.

CONDITION 33 | FULL COMPLIANCE

The consent holder must stockpile all topsoil stripped from the site to which this consent relates and shall use this topsoil for rehabilitation purposes.

ATH-2020203925 EASTERN ACCESS TRACK CONSTRUCTION CLEANFILL DISCHARGE

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Hamish Sutherland, 16 February 4:40 pm

AUTHORISATION CONDITION ASSESSMENT

CONDITION 3 | FULL COMPLIANCE

The consent holder shall be responsible for all contracted operations related to the exercise of these resource consents, and shall ensure contractors are made aware of the conditions of this resource consent and ensure compliance with those conditions.

CONDITION 7 | FULL COMPLIANCE

The consent holder shall undertake the works in accordance with the lodged Erosion and Sediment Control Plan (E&SCP) titled 'Eastern Access Erosion and Sediment Control Plan, dated 7 April 2020, and any subsequent changes certified under Condition 8 of this consent.

ADVICE NOTE: The E&SCP referenced in this condition has been approved through the processing of the consent. Any reference to 'certified E&SCP' in subsequent conditions refers to the above referenced E&SCP and any certified amendments provided for in condition 8.

CONDITION 13 | FULL COMPLIANCE

The consent holder must engage a suitably qualified geotechnical engineer to ensure that the cut slopes and fill sites are appropriately assessed for stability during and following the filling operation. The engineer must also ensure there is appropriately installed drainage to ensure long term stability of the works.

CONDITION 15 | FULL COMPLIANCE

The consent holder shall ensure that sediment losses to natural water arising from the exercise of these resource consents are minimised during the duration of the works and during the term of this consent. In this regard, erosion and sediment control measures shall be established and maintained in accordance with the document titled "Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)", and the certified E&SCP.

CONDITION 16 | FULL COMPLIANCE

All earthmoving machinery, pumps, generators and ancillary equipment shall be operated in a manner, which ensures 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 water body, ephemeral water body, or overland flow path, such that any spillage can be contained so that it does not enter surface water.

CONDITION 17 | FULL COMPLIANCE

The consent holder shall ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the site shall be diverted away from the exposed areas via a stabilised system to prevent erosion. The consent holder shall also ensure the outfall(s) of these systems are protected against erosion.

CONDITION 18 | FULL COMPLIANCE

All material deposited during the exercising of this resource consent shall meet the definition of cleanfill contained in the glossary of terms in the Manawatū-Whanganui Regional Council's One Plan.

DEFINITION: Cleanfill material means material such as clay, soil and rock, and other inert materials such as concrete or brick that are free of:

Combustible, putrescible (except that cleanfill material may contain up to 5% by weight putrescible matter), degradable or leachable components;

Hazardous substances;

Products or materials derived from hazardous waste treatment, hazardous waste stabilisation or hazardous waste disposal practices

Material that may present a risk to human health

Liquid waste.

CONDITION 19 | FULL COMPLIANCE

Cleanfill must not be placed within any area of vegetation that is identified as Rare, Threatened or At-Risk habitat under Schedule F of the One Plan.

CONDITION 20 | FULL COMPLIANCE

Cleanfill must be placed in a position where it will not enter any waterbody or cause a diversion, damming or erosion of any waterway.

CONDITION 22 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

ATH-2020203926 EASTERN ACCESS TRACK MULTIPLE CULVERT CROSSING CONSTRUCTION (MANGAMANAIA STREAM)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Hamish Sutherland, 16 February 10:15 am

EARTHWORKS (CUT N COVER) MANGAMANAIA STREAM DIVERSION. CATCHMENT

SURFACE STABILISATION

G1 Mulching

G1 Geotextiles & Control Blankets

G1 Aggregate

AUTHORISATION CONDITION ASSESSMENT

CONDITION 7 | FULL COMPLIANCE

All materials and equipment required for the construction of the culverts must be sourced prior to works commencing for each individual culvert.

ADVICE NOTE: The sourced material need not be stored on site.

CONDITION 14 | FULL COMPLIANCE

Activities authorised by this consent shall not result in the discharge of contaminants that are toxic to aquatic ecosystems.

ADVICE NOTE: This includes leakage of fuel, oil and other contaminants from machinery used for activities under this consent.

CONDITION 15 | FULL COMPLIANCE

Any discharge of sediment shall not, after reasonable mixing cause any increase in turbidity (NTU) by more than 30%, for more than 24 hours in total across 5 consecutive days.

ADVICE NOTE: Reasonable mixing is defined as seven (7) times the bed width.

CONDITION 18 | FULL COMPLIANCE

The consent holder shall comply with all notices and guidelines issued by Biosecurity New Zealand (refer to www.biosecurity.govt.nz/didymo) in relation to avoiding the spread of the pest organism Didymosphenia Geminata (known as 'Didymo').

CONDITION 19 | FULL COMPLIANCE

With the exception of during construction of the culverts, the activity shall be undertaken in a manner that provides for the passage of fish both upstream and downstream, including past any structure.

CONDITION 21 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

CONDITION 23 | FULL COMPLIANCE

The consent holder must ensure that any works undertaken on the culvert construction must only occur when all watercourse flows are diverted away from the works area.

CONDITION 30 | FULL COMPLIANCE

The consent holder shall ensure that no holes, mounds or stockpiles are left on any work site within the excavation area at the completion of any excavation sequence, and that no excavated material is stored or stockpiled in a position where the flow of water may be impeded.

ATH-2019202855 STUART BOLTON WESTERN ACCESS TRACK FORMATION CLEANFILL DISCHARGE

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

COMPLIANCE INSPECTION

Undertaken by Georgia Baker, 16 February 10:54 pm

AUTHORISATION CONDITION ASSESSMENT

CONDITION 25 | FULL COMPLIANCE

Cleanfill must be placed in a position where it will not enter any waterbody or cause a diversion, damming or erosion of any waterway.

CONDITION 32 | FULL COMPLIANCE

Cleanfill must not be transported across the existing ford that provides access to the southern portion of the property except where cleanfill is necessary for the formation of the two new box culverts.

ATH-2019202852 STUART BOLTON WESTERN ACCESS TRACK CONSTRUCTION

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Georgia Baker, 16 February 11:24 pm

WEATHER ASSESSMENT

Cool (10-20°C) Air Temperature
Light Rainfall
6 Oktas (Splintered) Cloud Cover
Wind Direction
Strong Gale (75-88 kph) Wind Strength

DECANTING EARTH BUND DEB 6 DEOMISSIONED CATCHMENT

SURFACE STABILISATION

G1 Topsoil & Grass Seeding
G1 Hydroseeding
G1 Mulching
G1 Geopolymers or Soil Binders

DECANTING EARTH BUND DEB 5 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds

G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB 4 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SURFACE STABILISATION

G1 Topsoil & Grass Seeding

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds

G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB 3 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SURFACE STABILISATION

G1 Hydroseeding

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds

G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB 2 CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds

G1 Coagulant & Flocculant Treatment

AUTHORISATION CONDITION ASSESSMENT

CONDITION 14 | FULL COMPLIANCE

Unless otherwise certified in writing by the Manawatū-Whanganui Regional Council acting in a technical certification capacity, the consent holder shall undertake all earthworks and chemically treat all dirty water within sediment retention devices in with the Chemical Treatment Management Plan dated 11 September 2019.

CONDITION 21 | FULL COMPLIANCE

All earthmoving machinery, pumps, generators and ancillary equipment shall be operated in a manner, which ensures 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 water body, ephemeral water body, or overland flow path, such that any spillage can be contained so that it does not enter surface water.

CONDITION 22 | FULL COMPLIANCE

The consent holder shall ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the site shall be diverted away from the exposed areas via a stabilised system to prevent erosion. The consent holder shall also ensure the outfall(s) of these systems are protected against erosion.

CONDITION 25 | FULL COMPLIANCE

Cleanfill must be placed in a position where it will not enter any waterbody or cause a diversion, damming or erosion of any waterway.

CONDITION 26 | FULL COMPLIANCE

The consent holder shall ensure that all sediment laden run-off from the site is treated by sediment retention structures, devices or measures. These structures are to be fully operational before bulk earthworks commence and shall be maintained in accordance with document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”.

CONDITION 27 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

CONDITION 32 | FULL COMPLIANCE

Cleanfill must not be transported across the existing ford that provides access to the southern portion of the property except where cleanfill is necessary for the formation of the two new box culverts.

CONDITION 40 | FULL COMPLIANCE

The consent holder must ensure that an all-weather access to the erosion and sediment control measures is maintained at all times.

CONDITION 44 | FULL COMPLIANCE

The consent holder must stockpile all topsoil stripped form the site which this consent relate and shall use this topsoil for rehabilitation purposes.

CONDITION 45 | FULL COMPLIANCE

The consent holder shall progressively stabilise, re-contour and re-vegetate any disturbed areas and identified areas within the certified Erosion and Sediment Control Plan to minimise sediment runoff and erosion until the site has been stabilised in accordance with the measures detailed in the document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”.

ATH-2020203515 STUART BOLTON WESTERN VEHICLE ACCESS TRACK EXTENSION (STAGE B)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Georgia Baker, 16 February 11:36 pm

SEDIMENT RETENTION POND SRP EXTN CATCHMENT

No water in forebay. Emergency spillway channel realigned to integrate with new SRP below.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SEDIMENT CONTROL PRACTICES

G1 Sediment Retention Pond

G1 Coagulant & Flocculant Treatment

DECANTING EARTH BUND DEB EXTN CATCHMENT

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SEDIMENT CONTROL PRACTICES

G1 Decanting Earth Bunds

G1 Coagulant & Flocculant Treatment

AUTHORISATION CONDITION ASSESSMENT

CONDITION 12 | FULL COMPLIANCE

The sites sediment retention pond and decanting earth bunds shall be chemically treated throughout the duration of earthworks in accordance with the Chemical Treatment Management Plan (CTMP) titled 'Access Track 1 Erosion and Sediment Control Plan – Appendix B Chemical Treatment Management Plan' dated 11 September 2019.

CONDITION 22 | FULL COMPLIANCE

All earthmoving machinery, pumps, generators and ancillary equipment shall be operated in a manner, which ensures 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 water body, ephemeral water body, or overland flow path, such that any spillage can be contained so that it does not enter surface water.

CONDITION 23 | FULL COMPLIANCE

The consent holder shall ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the site shall be diverted away from the exposed areas via a stabilised system to prevent erosion. The consent holder shall also ensure the outfall(s) of these systems are protected against erosion.

CONDITION 27 | FULL COMPLIANCE

The consent holder must ensure that all sediment laden run-off from the site is treated by sediment retention structures, devices or measures. These structures are to be fully operational before bulk earthworks commence and shall be maintained to perform at least at 80% of their operational capacity and in accordance with document titled “Erosion and Sediment Control Guide for Land Disturbing Activities in the Auckland Region 2016 (GD05)”.

CONDITION 28 | FULL COMPLIANCE

There shall be no discharge of airborne particulate matter that is objectionable to the extent that it causes an adverse effect at or beyond the boundary of the subject property.

ADVICE NOTE: For the purpose of this consent, a Consents Monitoring Officer may assess the Frequency, Intensity, Duration, Offensiveness/Character and Location of Exposure (FIDOL) of the discharge to determine whether the discharge is Offensive, Objectionable, Noxious and/or Dangerous; definitions of these are provided in Chapter 15 of the One Plan 2018, or any superseding Regional Plan.

CONDITION 38 | FULL COMPLIANCE

The consent holder must ensure that an all-weather access to the erosion and sediment control measures is maintained at all times.

CONDITION 43 | FULL COMPLIANCE

The consent holder must stockpile all topsoil stripped form the site which this consent relate and shall use this topsoil for rehabilitation purposes.

ZONE 1 COMPLIANCE

This section summarises all compliance assessments, inspections and associated monitoring activities completed in the zone, for the reporting period.

PERFORMANCE SUMMARY

The overall compliance and gradings across the zone for the reporting period:

EROSION & SEDIMENT CONTROL GRADING SUMMARY

4	Grade 1
0	Grade 2
0	Grade 3
0	Grade 4

COMPLIANCE SUMMARY

2	Full Compliance
0	Compliance Achieved (at Risk)
0	Non-Compliance (Low Risk)
0	Non-Compliance (Moderate Risk)
0	Significant Non-Compliance

NO RECOMMENDED ACTIONS

COMPLIANCE MONITORING

Compliance assessments undertaken in the reporting period include site inspections, office assessments, meetings and monitoring of resource consent conditions.

ATH-2020203333 TE AHU A TURANGA HIGHWAY CONSTRUCTION (RC2)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Georgia Baker, 16 February 11:40 am

SEDIMENT RETENTION POND SRP 4750 CATCHMENT

Pond just finished construction with as builts received the morning of inspection for review. Rainfall event had ponded in dirty water catchment area and was being pumped to forebay for treatment until levels are achieved.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SEDIMENT CONTROL PRACTICES

G1 Sediment Retention Pond

G1 Coagulant & Flocculant Treatment

CONDITION LD3 | FULL COMPLIANCE

Air Quality Standards

Dust arising from works authorised by resource consents for the Project must not cause a noxious, dangerous, offensive or objectionable effect at any point beyond the boundary of the site.

Prior to the commencement of any land disturbance activities a meteorological weather station must be installed on-site and must provide the following data:

occurrences of wind conditions greater than 1 Om/s hourly average or greater;

wind speed and direction at ten (10) metres above the ground;

rainfall at ground level;

air temperature at one and a half (1 .5) metres and ten (10) metres above ground; and

relative humidity.

The meteorological weather station required by Clause (b) must be maintained at all times and must:

comply with 'ASINZS 3580.14-2014 Methods for sampling and analysis of ambient air Meteorological monitoring for ambient air quality monitoring applications'; and

be recalibrated every two (2) years.

The speed of construction vehicles must be limited to 20km/h on unsealed surfaces during dry weather when within 100 metres of the sensitive receivers shown on the plans in Appendix E.4 to' Te Ahu a Turanga: Technical Assessment E - Air Quality' attached to and forming part of the conditions of these resource consents.

When construction works are within 100 metres of the dwellings at R4, R5 and R7, shown on the plans in Appendix E.4 to 'Te Ahu a Turanga: Technical Assessment E -Air Quality' attached to and forming part of the conditions of these resource consents, continuous dust monitors must be established and operated in accordance with 'AS/NZS 3580.12.1.2015'. Methods of sam lin and anal sis of ambient air - Part 12.1: Determination of light scattering integrating nephelometer method', between the dwellings and the construction works.

Where the results of monitoring required by Clause (e) exceeds a concentration (PM10) of 150µ/m3 hourly average, dust-generating activities must cease until emissions are controlled, including through the implementation of additional dust control measures.

When construction works are downwind (prevailing wind) and within 100 metres of the following locations, shown on the plans in Appendix E.4 to 'Te Ahu a Turanga: Technical Assessment E - Air Quality' attached to and forming part of the conditions of these resource consents, monthly dust deposition monitoring must be undertaken as follows:

Te Apiti wind farm turbines TAP9, TAP10, TAP47 and TAP50, using directional dust deposition gauges in accordance with 'ASINZS 3580.10.2:2013. Methods for sampling and analysis of ambient air. Determination of particulate matter - Impinged matter- Gravimetric method;

the ecological areas F2, F4, F7, E1, E2, E4 and research area B1, using traditional dust deposition gauges in accordance with 'ASINZS 3580.10.1:2016. Methods for sampling and

analysis of ambient air. Determination of particulate matter - Deposited matter - Gravimetric method.

Where the results of monitoring required by Clause (g) exceed 4 grams per square metre per 30 days above background levels, the potential causes must be investigated and additional control measures implemented, where necessary.

Where additional dust control measures are required by Clause (f) or Clause (h) the results of monitoring; the outcome of investigations of the cause; and details of the additional measures that are implemented must be provided to Manawatu-Whanganui Regional Council as soon as practicable and within five (5) working days of the exceedance occurring.

ADVICE NOTES:

The standard in Clause (a) will be assessed using the FIDOL (Frequency, Intensity, Duration, Offensiveness and Location) factors described in the Ministry for the Environment publication 'Good Practice Guide for Assessing and Managing Dust' (2016).

Other measures to monitor and manage the effects of dust on the National Grid are set out in conditions NG1(e) and NG2(d)(vi).

CONDITION LD4 | FULL COMPLIANCE

Cut and Fill Stability

Disturbed areas must not exceed a height of ten (10) metres without being stabilised. Natural cut faces that are left bare are considered to be stabilised.

Disturbed areas, and areas identified in a certified SSESCP must be progressively temporarily stabilised, re-contoured and re-vegetated to minimise sediment runoff and erosion until the disturbed area is permanently stabilised in accordance with GD05 and clause (c).

Areas of the site where earthworks have been completed must be stabilised to prevent erosion as soon as practicable and within fourteen (14) days of completion of any works authorised by these resource consents, unless otherwise provided for in a certified SSESCP. Completion is defined as where bulk earthworks are complete or where no further bulk earthwork is programmed to occur for three (3) months.

Stabilisation (where required) must be undertaken by providing adequate measures (vegetative and/or structural) that will reduce sediment runoff and erosion.

The consent holder must engage a suitably qualified and experienced geotechnical engineer to ensure:

that the permanent cut slopes and fill sites are appropriately assessed for stability during and following the cut or filling operation; and

drainage is installed where fill is placed to ensure long term stability of the fill sites.

The outcome of the assessment required by Clause (e) must be provided to Manawatu-Whanganui Regional Council for information within twenty (20) working days of the assessment being completed either for the whole or part of the construction works.

ZONE 2 COMPLIANCE

This section summarises all compliance assessments, inspections and associated monitoring activities completed in the zone, for the reporting period.

PERFORMANCE SUMMARY

The overall compliance and gradings across the zone for the reporting period:

EROSION & SEDIMENT CONTROL GRADING SUMMARY

5	Grade 1
0	Grade 2
0	Grade 3
0	Grade 4

COMPLIANCE SUMMARY

5	Full Compliance
0	Compliance Achieved (at Risk)
0	Non-Compliance (Low Risk)
0	Non-Compliance (Moderate Risk)
0	Significant Non-Compliance

NO RECOMMENDED ACTIONS

COMPLIANCE MONITORING

Compliance assessments undertaken in the reporting period include site inspections, office assessments, meetings and monitoring of resource consent conditions.

ATH-2020203333 TE AHU A TURANGA HIGHWAY CONSTRUCTION (RC2)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

EROSION & SEDIMENT CONTROL INSPECTION

Undertaken by Georgia Baker, 16 February 10:55 am

DECANTING EARTH BUND DEB 1 CATCHMENT

Floc box being installed at time of inspection. As builts to follow.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

DECANTING EARTH BUND DEB 2 CATCHMENT

Device had just been batch dosed. Floc box being installed and inlet point finalised.

WATER MANAGEMENT CONTROLS

G1 Clean Water Diversions

G1 Dirty Water Diversion Channels

SURFACE STABILISATION

G1 Turfing

DECANTING EARTH BUND DEB 3 CATCHMENT

Floc box still to be installed. Device had just been batch dosed. Slumping apparent, awaiting geotechnical advice. Discussed installing nova coil pipe along clean water diversion to take weight out of the batter and reduce moisture in this area.

SEDIMENT RETENTION POND SRP 6800 CATCHMENT

Floc box was to be installed today. Then as built to follow. Coconut matting had been laid below CWD that extends beyond pond. With further in progress.

AUTHORISATION CONDITION ASSESSMENT

CONDITION LD1 | FULL COMPLIANCE

Cleanfill Material

All earthworked material and imported material deposited as part of the works authorised by these consents must be cleanfill material.

CONDITION LD3 | FULL COMPLIANCE

Air Quality Standards

Dust arising from works authorised by resource consents for the Project must not cause a noxious, dangerous, offensive or objectionable effect at any point beyond the boundary of the site.

Prior to the commencement of any land disturbance activities a meteorological weather station must be installed on-site and must provide the following data:

occurrences of wind conditions greater than 1 Om/s hourly average or greater;

wind speed and direction at ten (10) metres above the ground;

rainfall at ground level;

air temperature at one and a half (1 .5) metres and ten (10) metres above ground; and

relative humidity.

The meteorological weather station required by Clause (b) must be maintained at all times and must:

comply with 'ASINZS 3580.14-2014 Methods for sampling and analysis of ambient air Meteorological monitoring for ambient air quality monitoring applications'; and

be recalibrated every two (2) years.

The speed of construction vehicles must be limited to 20km/h on unsealed surfaces during dry weather when within 100 metres of the sensitive receivers shown on the plans in Appendix E.4 to' Te Ahu a Turanga: Technical Assessment E - Air Quality' attached to and forming part of the conditions of these resource consents.

When construction works are within 100 metres of the dwellings at R4, R5 and R7, shown on the plans in Appendix E.4 to 'Te Ahu a Turanga: Technical Assessment E -Air Quality' attached to and forming part of the conditions of these resource consents, continuous dust monitors

must be established and operated in accordance with 'AS/NZS 3580.12.1.2015'. Methods of sam lin and anal sis of ambient air - Part 12.1: Determination of light scattering integrating nephelometer method', between the dwellings and the construction works.

Where the results of monitoring required by Clause (e) exceeds a concentration (PM10) of 150µ/m3 hourly average, dust-generating activities must cease until emissions are controlled, including through the implementation of additional dust control measures.

When construction works are downwind (prevailing wind) and within 100 metres of the following locations, shown on the plans in Appendix E.4 to 'Te Ahu a Turanga: Technical Assessment E - Air Quality' attached to and forming part of the conditions of these resource consents, monthly dust deposition monitoring must be undertaken as follows:

Te Apiti wind farm turbines TAP9, TAP10, TAP47 and TAP50, using directional dust deposition gauges in accordance with 'ASINZS 3580.10.2:2013. Methods for sampling and analysis of ambient air. Determination of particulate matter - Impinged matter- Gravimetric method;

the ecological areas F2, F4, F7, E1, E2, E4 and research area B1, using traditional dust deposition gauges in accordance with 'ASINZS 3580.10.1:2016. Methods for sampling and analysis of ambient air. Determination of particulate matter - Deposited matter - Gravimetric method.

Where the results of monitoring required by Clause (g) exceed 4 grams per square metre per 30 days above background levels, the potential causes must be investigated and additional control measures implemented, where necessary.

Where additional dust control measures are required by Clause (f) or Clause (h) the results of monitoring; the outcome of investigations of the cause; and details of the additional measures that are implemented must be provided to Manawatu-Whanganui Regional Council as soon as practicable and within five (5) working days of the exceedance occurring.

ADVICE NOTES:

The standard in Clause (a) will be assessed using the FIDOL (Frequency, Intensity, Duration, Offensiveness and Location) factors described in the Ministry for the Environment publication 'Good Practice Guide for Assessing and Managing Dust' (2016).

Other measures to monitor and manage the effects of dust on the National Grid are set out in conditions NG1(e) and NG2(d)(vi).

CONDITION LD4 | FULL COMPLIANCE

Cut and Fill Stability

Disturbed areas must not exceed a height of ten (10) metres without being stabilised. Natural cut faces that are left bare are considered to be stabilised.

Disturbed areas, and areas identified in a certified SSESCP must be progressively temporarily stabilised, re-contoured and re-vegetated to minimise sediment runoff and erosion until the disturbed area is permanently stabilised in accordance with GD05 and clause (c).

Areas of the site where earthworks have been completed must be stabilised to prevent erosion as soon as practicable and within fourteen (14) days of completion of any works authorised by these resource consents, unless otherwise provided for in a certified SSESCP. Completion is defined as where bulk earthworks are complete or where no further bulk earthwork is programmed to occur for three (3) months.

Stabilisation (where required) must be undertaken by providing adequate measures (vegetative and/or structural) that will reduce sediment runoff and erosion.

The consent holder must engage a suitably qualified and experienced geotechnical engineer to ensure:

that the permanent cut slopes and fill sites are appropriately assessed for stability during and following the cut or filling operation; and

drainage is installed where fill is placed to ensure long term stability of the fill sites.

The outcome of the assessment required by Clause (e) must be provided to Manawatu-Whanganui Regional Council for information within twenty (20) working days of the assessment being completed either for the whole or part of the construction works.

CONDITION ES1 | FULL COMPLIANCE

Supervision

The erosion and sediment control measures to manage the effects of activities authorised by these resource consents must be managed and supervised by an appropriately qualified person experienced in the implementation and monitoring of erosion and sediment control measures. This person must ensure all contracted operations and personnel have clearly defined roles and responsibilities to monitor compliance with the conditions of these resource consents. This person must be available to meet with Manawatu-Whanganui Regional Council on request.

CONDITION ES2 | FULL COMPLIANCE

Erosion and Sediment Control Standards

Sediment losses to natural water arising from activities authorised by these resource consents must be minimised for the duration of the physical works authorised by these resource consents and until the expiry of the resource consents through the establishment and maintenance of erosion and sediment control measures in accordance with GD05 except where a higher standard is referred to in the ESCP or a certified SSESCP, in which case the higher standard applies.

All sediment laden run-off resulting from works authorised by these resource consents must be treated by sediment retention structures, devices or measures established and maintained in accordance with a certified SSESCP.

The consent holder must ensure that, as far as practicable, all clean water run-off from stabilised surfaces including catchment areas above the sites is diverted away from the exposed areas via a stabilised system to prevent erosion, including erosion at any associated outfall/s.

The pH of any discharge from sediment retention devices to any water-course must not be less than 5.5 or greater than 8.5.

Sediment retention devices must be designed and operated to achieve the following performance targets:

greater than 90% treatment efficiency across a rainfall trigger event; and

discharge clarity of greater than 100mm measured by black disc.

Where the performance targets in Clause (e) are not achieved, the response action(s) set out in the Erosion and Sediment Control Monitoring Plan must be implemented so that those performance targets are achieved.

ZONE 3 COMPLIANCE

This section summarises all compliance assessments, inspections and associated monitoring activities completed in the zone, for the reporting period.

PERFORMANCE SUMMARY

The overall compliance and gradings across the zone for the reporting period:

EROSION & SEDIMENT CONTROL GRADING SUMMARY

COMPLIANCE SUMMARY

1	Full Compliance
0	Compliance Achieved (at Risk)
0	Non-Compliance (Low Risk)
0	Non-Compliance (Moderate Risk)
0	Significant Non-Compliance

NO RECOMMENDED ACTIONS

COMPLIANCE MONITORING

Compliance assessments undertaken in the reporting period include site inspections, office assessments, meetings and monitoring of resource consent conditions.

ATH-2020203333 TE AHU A TURANGA HIGHWAY CONSTRUCTION (RC2)

FULL COMPLIANCE

NO RECOMMENDED ACTIONS

PLAN OR REPORT

Assessment by Georgia Baker, 12 February

Main Alignment Site Specific SS12 Erosion and Sediment Control Plan Amendment Received and Certified.

AUTHORISATION CONDITION ASSESSMENT

CONDITION ES7 | FULL COMPLIANCE

Amending the Certified Site Specific Erosion and Sediment Control Plans

Where compliance with GD05 continues to be achieved, the following may be undertaken prior to a SSESCP being amended subject to a retrospectively amended SSESCP being prepared and provided to Manawatu-Whanganui Regional Council within ten (10) working days:

the addition of silt fences and super silt fences;

changes to the dimensions or configuration of a sediment retention pond or decanting earth bund;

the installation of additional diversion bunds, diversion channels devices, dams and pipe drop structures; and

construction of additional erosion and sediment controls where devices are within the permanent works footprint and do not affect construction of the erosion and sediment controls that are already constructed and certified.

A SSESCP may be amended or updated without the need for certification where:

the amendment is an administrative change, such as a change in contact details; or

the amendment is to the location of an erosion and sediment control where each control is sized for the captured area and shown on as-built plans in new location and compliance with GD05 is maintained; or

the amendment provides additional lay down areas within the area of works subject to the SSESCP and does not impact on existing controls; or

the amendment changes bund or diversion construction (excluding changes to dimension and capacity); or

the revised SSESCP is provided to the Manawat0-Whanganui Regional Council and, within five (5) working days of receiving the revised SSESCP, the Manawatu-Whanganui Regional Council has not advised in writing that the amendment must be certified under clause (c) on the basis that the amendment/s do not meet the requirements of clauses (a)(i) to (a)(iv); and

the amendment does not result in works occurring during the period 1 May to 30 September inclusive.

Except as provided for in clauses (a) and (b), amendments to a SSESCP must be certified in writing by the Manawatu-Whanganui Regional Council acting in a technical certification capacity prior to the commencement of any works to which the amended SSESCP relate.

Certification (or withholding certification) is based on the Manawatu-Whanganui Regional Council's assessment of whether the amended SSESCP meets the requirements of the conditions of these resource consents and, in particular is consistent with the requirements and measures in GD05.

If five (5) working days have passed since the amended SSESCP has been provided to Manawatu-Whanganui Regional Council for certification, and Manawatu-Whanganui Regional Council has not certified the revised SSESCP or provided advice that the SSESCP is not suitable to certify, then works may commence in accordance with the SSESCP as provided.

GLOSSARY

CONTROL GRADINGS

The below outlines the guidelines in determining an erosion and sediment control grading.

G1 | GRADE 1 | FULL COMPLIANCE

Best Practice, no further actions required

G2 | GRADE 2 | COMPLIANCE ACHIEVED (AT RISK)

Identified minor technical issues with the control device, but satisfies the underlying purpose of the guidelines, erosion and sediment control plan or resource consent conditions.

G3 | GRADE 3 | NON-COMPLIANCE (LOW – MODERATE RISK)

Control devices are missing, or poor construction has lead to, or will likely result in a failure as an efficient erosion or sediment control method.

G4 | GRADE 4 | NON-COMPLIANCE (MODERATE RISK) - SIGNIFICANT NON-COMPLIANCE

Control devices are missing, poor construction resulting in an uncontrolled sediment discharge, or failure as an efficient erosion and sediment control method that may breach resource consent conditions.

COMPLIANCE ASSESSMENT RANKINGS

The below outlines the guidelines in determining the compliance ranking for resource consents, permitted or deemed permitted activities and any assessed conditions.

AUTHORISATION COMPLIANCE RANKINGS

SIGNIFICANT NON-COMPLIANCE

One or more assessed conditions are non-compliant, and there are significant environmental consequences or a high risk of adverse environmental effects.

NON-COMPLIANCE (MODERATE RISK)

One or more assessed conditions are non-compliant, and there are some environmental consequences, or there is a moderate risk of adverse environmental effects.

NON-COMPLIANCE (LOW RISK)

One or more assessed conditions are non-compliant, and there is a low risk of adverse environmental effects, or the non-compliance is technical, for example; failure to submit a monitoring report.

COMPLIANCE ACHIEVED (AT RISK)

One or more assessed conditions are at risk of future non-compliance due to management or system deficiencies.

FULL COMPLIANCE

Compliant with all assessed conditions of the consent.

CONDITION COMPLIANCE RANKINGS

NOT VERIFIABLE

Where the condition outlines an unpractical methodology or worded in such a way that compliance cannot be assessed, in these cases, a monitoring approach will be agreed and added to the condition to support a consistent monitoring approach.

SIGNIFICANT NON-COMPLIANCE

A non-compliance with the condition and there are significant environmental consequences, a high risk of adverse effects, unauthorised discharge, or five or more repeated technical non-compliances.

NON-COMPLIANCE (MODERATE RISK)

A non-compliance with the condition and there are some environmental consequences, a moderate risk of adverse environmental effects, or four repeated technical non-compliance within a reporting year.

NON-COMPLIANCE (LOW RISK)

A one-off non-compliance with the condition and there is a low risk of adverse environmental effects, or the non-compliance is technical, for example; failure to submit a monitoring report.

COMPLIANCE ACHIEVED (AT RISK)

Compliant with the condition, but at risk of future non-compliance due to management, or system deficiencies.

FULL COMPLIANCE

Compliant with all aspects of the condition.