

## Appendix O: Permitted activity standards assessment

### 1 E3 Lakes, rivers, streams and wetlands

**Table 1.1: Assessment against E3.6.1.1 – General Standards for activities listed in Table E3.4.1**

These standards are required to be assessed under the following rules:

- E3.4.1 Activity Table (A53) – Any activity that is undertaken in, on, over or within the bed of an ephemeral river and streams complying with the standards in E3.6.1.1 is a permitted activity.

E3.6.1.1 General standards	Comment
(1) The activity must not, after reasonable mixing, result in any of the following effects in receiving waters: (a) the production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials; (b) any conspicuous change in the colour or visual clarity; (c) any emission of objectionable odour; (d) the rendering of fresh water unsuitable for consumption by farm animals; and (e) any significant adverse effects on aquatic life.	Will comply Measures are proposed to ensure that the listed effects will not occur in receiving waters.
(2) The activity must not result in an increase of existing flood levels up to and including the 1 per cent annual exceedance probability (AEP) flood plain on land or structures other than that owned or controlled by the person undertaking the activity.	Will comply. The activity will not increase existing flood levels.
(3) The activity must not result in more than minor erosion or land instability.	Will comply The activity will not result in more than minor erosion or land stability.
(4) Machinery must not sit directly on the wetted cross-section of the bed at the time of the work.	Will comply No machinery will sit on the wetted stream bed at any time.
(5) Explosives must not be used in the bed.	Will comply No explosives are proposed to be used
(6) Mixing of construction materials and refuelling or maintenance of equipment must not occur within 10m of the bed and best site management practice must be used to avoid contaminant discharging into the water.	Will comply. Mixing, refuelling and equipment maintenance will not be undertaken within 10 m of streams.
(7) The activity must not destroy, damage or modify any sites scheduled in the Historic Heritage Overlay or the Sites and Places of Significance to Mana Whenua Overlay.	Will comply

(8) The activity must not prevent public access along the lake, river, stream or wetlands.	Will comply. There is no public access within the Project site
--	--

## 2 E7 Taking, using, damming and diversion of water and drilling

**Table 2.1: Assessment against E7.6.1.2 – Standards for permitted activities listed in E7.4.1**

These standards are required to be assessed under the following rules:

- E7.4.1 Activity Table (A11) - Diversion into an artificial watercourse is a permitted activity, provided the relaxant permitted activity standard (E7.6.1.2) is met.

<b>E7.6.1.2 Diverting surface water and the associated discharge of water</b>	<b>Comment</b>
(1) The diversion of surface water and the associated discharge of water must not be located within areas identified in the Urban Lake Management Areas Overlay, the Natural Lake Management Areas Overlay, the Natural Stream Management Areas Overlay or the Wetland Management Areas Overlay.	Will comply The diversion of surface water is not located within any areas identified in (1)
(2) The diversion of surface water and the associated discharge of water must not cause or worsen the flooding of any property in a range of flood events.	Will comply The diversion will be designed to not increase flooding.
(3) The diversion of surface water and the associated discharge of water must not cause scouring, erosion or other instability of any land or waterbody.	Will comply. The diversion will be designed to not cause scouring, erosion or instability.
(4) The activity must not lower water levels in any wetland, except for wetlands designed and used for stormwater management by a network utility.	Not applicable There are no wetlands within the Project Site.
(5) The diversion must not prevent the passage of fish in waterbodies containing fish.	Will comply
(6) The diversion must not adversely affect any lawfully established water take or use existing at the time the diversion begins.	Will comply No existing water takes or uses will be affected by the diversion.
(7) For diversions of surface water within or from an artificial watercourse or drain, the diverted water must not reduce the water quality of any downstream waterbody, including effects associated with the discharge of sediment.	Will comply The diversion will be designed to minimise sediment discharge, and will not result in reduced downstream water quality.

**Table 2.2: Assessment against E7.6.1.11 and E7.6.1.12 – Standards for permitted activities listed in E7.4.1**

These standards are required to be assessed under the following rules:

- E7.4.1 Activity Table (A29) – Off-stream dams (in this case, an earth embankment on a stormwater pond) are a permitted activity, provided the relaxant permitted activity standards (E7.6.1.11 and E7.6.1.12) are met.

E7.6.1.11 Damming water – all dams	Comment
(1) The dam embankment, outlets, spillways and associated structures must be designed, constructed, operated and maintained to ensure they are structurally sound, pose no undue risk to life, property or the natural environment, and are able to perform satisfactorily under all foreseeable circumstances.	Will comply The stormwater detention dam will be designed and constructed, operated and maintained to ensure it is structurally sound, and does not pose risk to life, property or the natural environment.
(2) The damming of water must not result in the loss, degradation or permanent flooding of any natural wetland in a range of flood events except for wetland enhancement, maintenance or restoration.	Will comply The damming of water will not result in loss, degradation or permanent flooding of natural wetlands.
(3) The dam must not result in significant adverse effects on flows or ecology within permanent or intermittent rivers or streams.	Will comply The dam will not result in significant adverse effects on flows or ecology.
(4) The dam structure must be no greater than 4m high when measured vertically from the downstream toe of the dam embankment to the highest point of the dam crest.	Will comply The bund will not exceed 4 m in height.
(5) The dammed water must not adversely raise sub-surface or surface water levels or adversely impede drainage on adjacent properties.	Will comply The dammed water will not raise sub-surface of surface water levels or impede drainage on adjacent properties.
(6) The dam must be designed, constructed, operated and maintained with a flood spillway to pass a 100-year ARI flood event without overtopping the dam crest (see note 1 and 2 below) except for as provided for in Standard E7.6.1.11(7) below.	Will comply The pond will have an emergency spillway designed to convey the 1 in 100 year storm event. The outfall within the pond will also be capable of taking the 100 year flow with the spillway activating if the primary outfall is blocked.
(7) Dams for the purposes of stormwater management or flood control that are: (a) designed by a suitably qualified and experienced person; and (b) constructed, operated and maintained to pass the design flow; and (c) designed to allow for resilient failure during over-design events.	Will comply (a) the dam has been designed by a suitably qualified person; (b) the dam will be constructed, operated and maintained to pass the design flow; (c) the dam has been designed to allow for future resilient failure.
(8) All spillways and bypass arrangements must be constructed, terminated and maintained to minimise erosion, and the spillway(s) entry must be designed to remain free of debris at all times.	Will comply The design will ensure erosion is minimised and the spillway entry will remain free of debris.
(9) Trees or vegetation which could weaken the dam stability or prevent inspection of the dam	Will comply

embankment must not be allowed to grow on or near the embankment.	Trees and vegetation will not be allowed to grow on or near the embankment.
(10) Stock must not be allowed to damage the crest and faces of the dam.	Will comply Stock will not be able to access the dam.
(11) The dam structure and spillway must be inspected at least once every 12 months and following any operation of the flood spillway. Any damage recorded at times of inspecting, or noticed at any other time, must be remedied as soon as practicable.	Will comply The dam and spillway will be inspected at least once every 12 months. Any damage will be remedied as soon as practicable.
<b>E7.6.1.12 Damming water – off-stream dams</b>	<b>Comment</b>
(1) All applications must meet the standards in E7.6.1.11 above.	Will comply Refer to above comments.
(2) Either the surface area of the impounded water must not exceed 5,000m <sup>2</sup> or the storage volume of the impounded water must not exceed 20,000m <sup>3</sup> .	Will comply The surface area will be approximately 5,000 m <sup>2</sup> and the volume will be approximately 600 m <sup>3</sup> .
(3) The contributing catchment area of dams constructed on or after 23 October 2001 must not exceed 20ha.	Will comply The contributing catchment is approximately 2 ha.
(4) The contributing catchment area of dams constructed prior to 23 October 2001 must not exceed 40ha.	Will comply The dam will be constructed after this date.
(5) For dams constructed on or after 23 October 2001, notice on the prescribed form must be received by the Council at least 15 working days before undertaking this permitted activity, unless the dam is owned or operated by a network utility operator for stormwater management purposes and the location and design of the dam is consistent with an authorised diversion and discharge stormwater consent.	Will comply
(6) Dams constructed on or after the date of notification of the Unitary Plan must not be located within the 5 per cent annual exceedance probability (AEP) flood plain, except for dams owned or operated by a network utility operator for the purposes of stormwater management.	Will comply The dam will be owned and operated by Watercare and is therefore exempt from this condition. Regardless, the dam will not be located within the 5 per cent AEP flood plain.

### 3 E11 Land disturbance – Regional

**Table 3.1: Assessment against E11.6.2 – General standards for all activities listed in Table E11.4.2**

The standards are required to be assessed under the following rules:

- E11.4.2 Activity Table (A13) – The temporary diversion and damming of surface water and the discharge of treated sediment laden water from any land disturbance that complies with all relevant permitted activity standards (E11.6.1 and E11.6.2).

<b>E11.6.1. Accidental discovery rule</b>	Will comply. An Accidental Discovery Protocol that complies with this standard will be provided to Council as part of the Outline Plan.
<b>E11.6.2. General standards</b>	<b>Comment</b>
(1) Land disturbance must not, after reasonable mixing, result in any of the following effects in receiving waters: (a) the production of conspicuous oil or grease films, scums or foams, or floatable or suspended materials; (b) any conspicuous change in the colour or visual clarity; (c) any emission of objectionable odour; (d) the rendering of fresh water unsuitable for consumption by farm animals; or (e) any significant adverse effects on aquatic life.	Will comply Measures are proposed to ensure that the listed effects will not occur in receiving waters.
(2) Best practice erosion and sediment control measures must be implemented for the duration of the land disturbance. Those measures must be installed prior to the commencement of land disturbance and maintained until the site is stabilised against erosion	Will comply Erosion and sediment control measures will be accordance with Auckland Council Technical Publication GD05 (refer Section 4.10.4 of the AEE and the ESCP in Appendix G)
(3) Dewatering of trenches and other excavations must be done in accordance with best practice and must not result in a discharge of untreated sediment laden water to any stormwater reticulation system or water body.	Will comply Dewatering will be undertaken in line with best practices. Additionally, erosion and sediment control measures will be in place to manage runoff for the duration of works.
(4) Trenching must be progressively closed and stabilised such that no more than 120 m of continuous trench is exposed to erosion at any one time.	Will comply. Any trenches will be progressively closed and stabilised so no more than 120 m of continuous trench is exposed at any one time.
(5) Only cleanfill material may be imported and utilised as part of the land disturbance	Will comply
(6) To prevent the spread of contaminated soil and organic material with kauri dieback disease, vehicle and equipment hygiene procedures must be adopted when working within 3 times the radius of the canopy drip line of a New Zealand kauri tree. Soil and organic material from land disturbance within 3 times the radius of the canopy drip line must not be transported beyond that area unless being transported to landfill for disposal.	Will comply Specific kauri dieback hygiene protocols for the project are set out in the Ecological Assessment in Appendix L. Those protocols are consistent with the requirements of this standard.
(7) Earthworks for maintenance and repair of driveways, parking areas, sports fields and major recreational facilities within the Significant Ecological Areas Overlay shall be limited to the area of earth previously disturbed or modified.	Not applicable

(8) Earthworks associated with a temporary activity within the Significant Ecological Areas Overlay shall be limited to the area of earthwork previously disturbed or modified.	Not applicable
---	----------------