

APPLICATION FOR RESOURCE CONSENT

Form B8 - Assessment of Effects on the Environment (AEE)



Auckland
Regional Council
TE RAUHĪTANGA TAIAO

Activities in, on, under or over the Beds of Lakes, Rivers and Streams

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(calls outside the Auckland area)

How do I fill in this form?

The following checklists and questions will help you to provide all the information needed for an Assessment of Environmental Effects (AEE) of your proposed activity. It may be appropriate in some cases to address matters in addition to those identified in the form.

The information you supply should have the level of detail according to the scale and significance of effects that the activity may have on the environment and should be relevant to your proposal.

For ease of checking, it is preferable that the issues are addressed in the same sequence as outlined in the checklist. Where relevant, place a tick ✓ in the box if you have provided the information and give a reference to the section of the report it is in.

Lake and riverbeds - why is a resource consent required?

Section 13 of the Resource Management Act 1991 (RMA) provides for regulation of activities in, on or under the beds of waterways.

The activity may be subject to rules in both the Auckland Transitional Regional Plan 1991 (TRP) and the Proposed Auckland Regional Plan: Air, Land and Water (PARP:ALW). As the relevant provisions of the PARP:ALW are not yet operative the status of the activity is determined as the more restrictive of the relevant rules of both plans.

The Auckland region has a unique and vulnerable network of lakes, rivers and streams. Developments (e.g. structures, reclamations, dredging, deposition of waste material, gravel extraction or the removal of vegetation in, on, under or over the lake, river and stream beds) can have significant adverse affects on the natural character of the region if not managed properly.

For Office Use Only

FORM A – WBS: _____
Consent No: _____
Other Related Consent Nos: _____
Customer No: _____

Fee / Deposit Paid: \$ _____
File No: _____
Site Address: _____
Applicant: _____

Chapter seven of the PARP:ALW contains objectives, policies and rules relating to the management of the beds of lakes, rivers streams and wetlands in the Auckland region.

The rules detail what activities in, on, under or over the beds of lakes, rivers, streams and wetlands associated with the bed of a lake or Permanent or Intermittent river or stream (as defined in chapters three and 12 of the PARP:ALW) are permitted activities in the region, and what activities require consent.

Most rules are subject to standards and terms given in the PARP:ALW.

More information concerning “works in a watercourse” can be found in the ARC’s fact sheets.

Fact Sheet 1	Stream Habitat
Fact Sheet 2	Consent Requirements
Fact Sheet 3	Streamworks Methodology
Fact Sheet 4	Erosion and Sediment Controls
Fact Sheet 5	Culvert Sizing and Design
Fact Sheet 6	Temporary Stream Diversion Design
Fact Sheet 7	Fish Passage
Fact Sheet 8	Floodplain Consent Requirements
Fact Sheet 9	Bridge Construction Consent Requirements

Activity	The Activity Involves Commercial Extraction or Dredging	The Activity Diverts or Infills a Permanent Stream	The Activity is Within a Natural Stream or Wetland Management Area	The Activity's Status	The Activity is Covered by PARP:ALW Rule
Structures in, on, under or over the bed of a lake or Permanent river or stream, that do not meet the Permitted Activity rules of 7.5.2 to 7.5.4:					
The structure is required by a condition of a Network Discharge consent authorised under rules 5.5.10 and 5.5.11	-	-	No	Controlled	7.5.5
Structures (provided any culvert, pipe or channel [including associated works] is less than 30m)	-	-	No	Restricted Discretionary	7.5.6
The structure is for the purpose of environmental enhancement and restoration activities	-	-	Yes, including Natural Lake areas	Restricted Discretionary	7.5.7
The structure is a new swing and pile mooring that does not meet rule 7.5.2 Condition (tt)	-	-	Natural Stream and Natural Lake areas only	Restricted Discretionary	7.5.7
Other than rule 7.5.5, the structure implements an approved resource consent	-	-	No	Restricted Discretionary	7.5.7
The structure does not comply with rules 7.5.5 - 7.5.7	-	-	No	Discretionary	7.5.8
The structure does not comply with rules 7.5.5 - 7.5.8	-	-	Yes	Non-Complying	7.5.9
Disturbance in, on or under the bed of a lake or Permanent river or stream and associated discharge of sediment, that does not meet the Permitted Activity rules of 7.5.11 to 7.5.12:					

Activity	The Activity Involves Commercial Extraction or Dredging	The Activity Diverts or Infills a Permanent Stream	The Activity is Within a Natural Stream or Wetland Management Area	The Activity's Status	The Activity is Covered by PARP:ALW Rule
The disturbance is for stormwater or wastewater management purposes, and is required by a condition of a Network Discharge consent authorised under rules 5.5.10 and 5.5.11	-	No	-	Controlled	7.5.13
The disturbance is for stormwater or wastewater management purposes, and is specifically for the purpose of maintaining an impoundment structure	-	No	-	Controlled	7.5.13
The disturbance is not provided for by rule 7.5.13	No	No	-	Restricted Discretionary	7.5.14
The disturbance is associated with the harvesting of exotic or introduced species that were planted for production purposes prior to 23 October 2001	No	No	Yes, including Natural Lake areas	Restricted Discretionary	7.5.14
The disturbance is associated with the maintenance, restoration or enhancement of the natural ecological values of the lake, Permanent river or stream, or wetland	No	No	Yes, including Natural Lake areas	Restricted Discretionary	7.5.14
The disturbance is undertaken by handheld methods	No	No	Yes, including Natural Lake areas	Restricted Discretionary	7.5.14
The disturbance is associated with the commercial extraction of a natural material or dredging within a Permanent river or stream	Yes	-	No	Discretionary	7.5.15
The disturbance is for the purpose of diverting and infilling of a Permanent river or stream	-	Yes	No	Discretionary	7.5.16
The disturbance is associated with the commercial extraction of a natural material or dredging in, on or under the bed of any natural lake, urban lake, natural stream or Wetland Management Area	Yes	-	Yes, including Natural Lake and Urban Lake areas	Non-Complying	7.5.17
The disturbance is for the purpose of diverting and infilling of a Permanent river or stream in a natural stream or Wetland Management Area	-	Yes	Yes	Non-Complying	7.5.18
Disturbance not provided for by other rules, and to occur in, or under the bed of a natural lake, natural stream or Wetland Management Area	-	-	Yes, Including Natural Lake areas	Non-Complying	7.5.19

Activity	The Activity Involves Commercial Extraction or Dredging	The Activity Diverts or Infills a Permanent Stream	The Activity is Within a Natural Stream or Wetland Management Area	The Activity's Status	The Activity is Covered by PARP:ALW Rule
The introduction or planting of plants in, on or under the bed of a lake or Permanent river or stream that does not meet the Permitted Activity Rule 7.5.21:					
The introduction or planting of any indigenous or exotic plant in, on or under the bed of a lake or Permanent river or stream that does not meet Rule 7.5.21	-	-	-	Discretionary	7.5.22
The introduction or planting of any plant either - named as a pest in a pest management strategy prepared under the Biosecurity Act (1993); or, declared as an unwanted organism by a Chief Technical Officer constituted under the same Act	-	-	-	Prohibited	7.5.23
Deposition of any substance in, on or under the bed of any lake or Permanent river or stream:					
The deposition is for the purposes of habitat enhancement or scientific research	-	-	-	Discretionary	7.5.25
The deposition of dredged material, with material from within the same Permanent river or catchment where it was dredged	-	-	No	Discretionary	7.5.26
The deposition of any other substance, not covered by another rule in this Plan	-	-	-	Non-Complying	7.5.27
The deposition of litter, refuse and other waste products	-	-	-	Prohibited	7.5.28
Reclamation or drainage of the bed of a lake or Permanent river or stream, and associated activities, structures, and diversion of water:					
The activity implements an approved resource consent	-	-	-	Restricted Discretionary	7.5.30
Reconstruction, alteration, removal or demolition of an existing reclamation or drained area	-	-	-	Discretionary	7.5.31
The construction and use of a new reclamation or drained area, or extension of an existing reclamation or area (and associated activities)	-	-	-	Non-Complying	7.5.32

Form B8 - Activities In, On, Under or Over the Beds of Lakes Rivers and Streams

Answer the following and/or discuss the following items in your AEE report

Where relevant, place a tick ✓ in the box if the item applies and has been provided in the report and give a reference to the section of the report it is in.

ARC Accepts / Rejects	A. Consultant / Specialist Explanation If one or more consultants or specialists have assisted in preparing this AEE report (e.g. driller), provide their details below.
	A.1 Name of Consultant:
	A.2 Area of Expertise:
	A.3 Postal Address: _____ _____ _____ Postal Code: _____
	A.4 Street Address: (if different from above) _____ _____ _____ Postal Code: _____
	A.5 Phone Numbers
	Business:
	Mobile:
	Fax:
	A.6 Email address:
	A.7 Name of Consultant:
	A.8 Area of Expertise:
	A.9 Postal Address: _____ _____ _____ Postal Code: _____
	A.10 Street Address: (if different from above) _____ _____ _____ Postal Code: _____
	A.11 Phone Numbers
	Business:
	Mobile:
	Fax:
	A.12 Email address:

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
	1.0	Description of the Proposal - describe the proposed works including, but not limited to, the following:	
	1.1	Detailed diagram of the proposed works with all dimensions.	
	1.2	The extent of the works (continuous length and width and total area of the bed and banks that will be affected, area of reclamation etc).	
	1.3	Structure freeboard and 100 year average recurrence interval (ARI) flood level.	
	1.4	Detailed works methodology including relevant calculations to support methodology, deposition technique etc.	
	1.5	Discussion of alternative methodologies.	
	1.6	Details of the construction period and timeframes – time of year works are to be carried out, duration and staging of the works.	
	1.7	General design of the works, materials to be used, construction methods, compaction, filling etc.	
	1.8	Extent and type of vegetation (including riparian) to be removed/planted – detail species, size, height, location etc.	
	1.9	Site management, use of machinery.	
	1.10	Method of diversion and/or discharge - inlet works, overland flow paths, outlet works, erosion control.	
	1.11	Volume and physical characteristics of material excavated, drilled or disturbed.	
	1.12	Volume and physical characteristics, degree and type of contamination of deposited material.	
	1.13	Maintenance and provision of fish passage.	
	1.14	Provide a detailed discussion on the outcome of the works, including calculations (e.g. hydraulic calculations supporting the size of any proposed culverts).	
	1.15	Describe the purpose of the proposed works e.g. stormwater run-off control habitat restoration, flood protection, access to jetties, public access etc.	
	1.16	Discuss consistency with any relevant approved Structure Plan, Integrated Catchment Management Plan, Network Management Plan or Flood Management Plan.	
	1.17	Discuss alternatives – locations and methods to the proposed works and whether consideration was given to minimising the area necessary for the activity.	

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
	2.13	Location of any natural heritage features e.g. indigenous vegetation and / or any significant ecological or geological features or features with significant natural heritage and / or conservation values e.g. volcanic cones, wetlands etc on the site and environs. (Refer section 3.14 of this form)	
	2.14	Disturbed areas (including staging details).	
	2.15	Refuelling / maintenance areas.	
	2.16	Catchment areas.	
	2.17	Steep slopes (>15°) highlighted.	
	2.18	Sub catchment areas for both the existing and proposed site conditions.	
	2.19	Flood plains / overland flow paths / stormwater outlets to kerb (five years, 20 years and 100 years average recurrence interval (ARI) flood levels.	
	2.20	If the site is within the Coastal Marine Area (CMA), the location of the Mean High Water Springs (MHWS).	
	2.21	Width of the bed of any watercourse.	
	2.22	Extent of any existing or proposed reserve area.	
	2.23	Location of any nearby wetlands, rivers or streams on the site and on neighbouring properties.	
	2.24	Location of existing and proposed structures, roads, buildings, fences etc.	
	2.25	Location of existing vegetation and any proposed removal and planting including riparian.	
	2.26	Existing and finished ground levels for either the whole site or the relevant work area. Show natural ground level datum points, contours and spot heights (to LINZ datum). Where appropriate, show contours to extend across boundaries.	
	2.27	Amounts and location of any earthworks - show volumes and areas of cut, fill and stockpiles (include staging details where relevant).	
	2.28	Location of and distance to any "sensitive" neighbouring properties.	
	2.29	Areas for vehicle and equipment maintenance and washing.	
	2.30	The lateral extent of the geological cross-section.	
	2.31	Dimensions of any proposed structures and area of works e.g. the length, width, height of a proposed jetty.	

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2						
	3.0	Site and Location Characteristics – identify, describe and assess the existing site and environs including, but not limited to, the following:							
	3.1	For Map reference of Works Site: _____ mE _____ mN. Use New Zealand Transverse Mercator (NZTM) e.g. 1756730mE 5919740mN. Use geographic positioning system (GPS) device if possible to obtain a map reference accurate to 10m. The northing follows the easting. If you do not have a map reference, ensure that the location of your works site is marked to an accuracy of 10m on your location plan.							
	3.2	Give the name of the water body, stream, river, lake (or if the stream is unnamed, state what water body it is a tributary of): Name: _____ or tributary of _____ Stream number (office use only) <table border="1" data-bbox="778 875 1295 913" style="display: inline-table; vertical-align: middle;"><tr><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td><td style="width: 20px; height: 15px;"></td></tr></table> <i>If you are unsure of the name of the water body, the ARC will be able to help you. In many instances tributaries to larger water bodies do not have official (or legally recognised) names. If tis is the case describe the water body as “an unnamed tributary of...”</i>							
	3.3	River/Stream/Lake classification under chapter three of PARP:ALW e.g. Permanent or Intermittent river/stream.							
	3.4	“Natural Lake” and “Stream Management Area” classification under PARP:ALW.							
	3.5	The current nature of the lake/river or stream at the site of the proposed works including:							
	3.5.1	Width of bed and top of stream channel in the location of the proposed works.							
	3.5.2	Morphology.							
	3.5.3	Water colour/clarity.							
	3.5.4	Bed and bank material.							
	3.5.5	Bed and bank gradients.							
	3.5.6	Erosion, flooding and scouring.							
	3.6	Ecological assessment of the lake, river or stream. (An appropriate methodology to assess the ecological functions of a watercourse is a Stream Ecological Valuation (SEV))							
	3.7	The current land use on the site and environs in the vicinity of the lake, river or stream.							
	3.8	The historical land use in the vicinity of the lake, river or stream.							
	3.9	The potential for and/or evidence of the site being contaminated land.							

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
	3.10	The topography, geology and soil characteristics of the land in the vicinity of the lake river or stream.	
	3.11	The wider catchment – upper and lower including details of the current land use and ecological characteristics and vegetative cover.	
	3.12	The immediate and ultimate receiving environment including ecological characteristics and sensitivity to sediment discharges.	
	3.13	<p>Any cultural heritage features including historic, waahi tapu and archaeological sites on the site or environs and any investigation undertaken.</p> <p><i>The following may help you identify any cultural heritage features on your site:</i></p> <p><i>Check the Auckland Regional Cultural Heritage Inventory (CHI) for historic or cultural heritage information.</i></p> <p><i>The New Zealand Historic Places Trust has a register of historic places, archaeological sites, historic areas waahi tapu and waahi tapu areas.</i></p> <p><i>The Auckland Regional Plan: Coastal (ARP:C) schedules one and two contains a list of protected and preserved historic and cultural heritage sites.</i></p> <p><i>District Plans have schedules of protected cultural heritage items.</i></p> <p><i>Appendix B of the Auckland Regional Policy Statement (ARPS) contains a list of significant natural heritage values and identifies sites and areas of special value to Tāngata Whenua.</i></p> <p><i>Areas/places that are significant to Tāngata Whenua may only be identified during consultation.</i></p>	
	3.14	<p>Any natural heritage features e.g. indigenous vegetation and / or any significant ecological or geological features or features with significant natural heritage and/or conservation values e.g. volcanic cones, wetlands etc on the site or environs and any investigation undertaken.</p> <p><i>The following may help you identify any natural heritage features on your site.</i></p> <p><i>Check the Natural Heritage Database (held by the ARC) – ask ARC staff.</i></p> <p><i>Appendix B of the Auckland Regional Policy Statement (ARPS) identifies areas of significant natural heritage values. Volume two of the Plan Maps for the Auckland Regional Plan Coastal Protection Areas, schedule three of the ARP:C describes their values.</i></p> <p><i>Schedule four of the ARP:C shows areas of significant conservation value as identified by the Ministry of Conservation.</i></p> <p><i>Plan change nine of the ARPS and schedule three of the ARP:C identify sites that have geological, landscape or coastal heritage value, including volcanic cones and coastal protection areas.</i></p> <p><i>Section 3.2 and 3.3 of chapter three of the PARP:ALW provide a description and management approach for wetland management areas and natural lake management areas respectively.</i></p>	

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
		<p><i>Schedule one of the PARP:ALW identifies significant wetlands which constitute the wetland management areas. Information on the boundaries is available from the ARC's Natural Heritage Information Database. The natural lake management area contains the identified lake and a 50m buffer strip around the lake.</i></p> <p><i>Section 3.4 of chapter three of the PARP:ALW provides a description, criteria, and management approach for natural stream management areas.</i></p> <p><i>Maps series one of the PARP:ALW identifies wetland and natural lake management areas, and also illustrates natural stream management areas in and indicative manner.</i></p>	
	4.0	Actual and Potential Effects on the Environment - identify and assess the actual or potential effects of the proposed activity including, but not limited to, the following:	
	4.1	Water quality and clarity – sediment transport and deposition.	
	4.2	Water flow/quantity - stream hydrology and water availability.	
	4.3	Morphology and flow hydraulics – natural water level fluctuations, impediments to water flow during flood conditions, water flow velocities and flow paths.	
	4.4	Flooding - adjacent land or exacerbation of existing flooding upstream or downstream.	
	4.5	Aquatic Flora and fauna - fish passage and other aquatic organisms upstream and downstream.	
	4.6	Stream/Lake bed through modification and erosion or deposition in bed or adjacent land.	
	4.7	Freshwater ecology.	
	4.8	Cumulative effects - incremental drainage and reclamation, existing structures on the natural character of the lake or stream and riparian vegetation.	
	4.9	Recreational and amenity values.	
	4.10	Public access.	
	4.11	Existing lawful water users upstream and downstream.	
	4.13	Cultural heritage features including historic, waahi tapu and archaeological sites on the site or environs and any investigation undertaken.	
	4.14	Natural heritage features e.g. indigenous vegetation and / or any significant ecological or geological features with significant natural heritage and / or conservation values e.g. volcanic cones, wetlands vegetation, etc on the site or environs and any investigation undertaken.	

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
	4.15	Discuss any adverse effects of the activity on any abstraction point for a registered drinking water supply as required by sections 6, 7 and 8 of the Resource Management (National Environmental Standards for sources of Human Drinking Water) Regulations 2007. <i>(For more detail on catchments and aquifers refer to question 3.21 in Form B9 "Discharge less than or equal to 6m³/day of Domestic wastewater onto or into Land".)</i>	
	5.0	Proposed Mitigation (minimum) – describe measures to be taken to avoid, remedy or mitigate identified adverse effects on the environment including, but not limited to, the following:	
	5.1	Bypassing or release of low flows.	
	5.2	Flood attenuation.	
	5.3	Provision of passage for migratory fish.	
	5.4	Wetland creation.	
	5.5	Riparian planting.	
	5.6	Site management.	
	5.7	Machinery use minimised.	
	5.8	Works staging and timeframes.	
	5.9	Provide a Erosion and Sediment Control Plan (ESCP), the ESCP should detail the following:	
	5.9.1	Erosion controls (including clean and dirty water diversions).	
	5.9.2	Sediment controls.	
	5.9.3	Staging plans.	
	5.9.4	Disturbed areas.	
	5.9.5	Appropriate and standard scale.	
	5.9.6	Clear orientation (i.e. north).	
	5.9.7	Reduced levels.	
	5.9.8	Topography (during and after construction works).	
	5.9.9	Earthworks and stockpile areas.	
	5.9.10	Overland flow paths and flood plains.	

ARC Accepts / Rejects	Item No.	Item	Information Provided ✓ Report Reference e.g. ✓ 3.2
	5.10	Discuss and justify the chosen and alternative erosion and sediment control measures.	
	6.0	Consultation <i>Where consultation has taken place with Iwi and/or any interested persons, details of the consultation undertaken, including the views of those consulted and your response to their concerns/issues must be provided. Copies of any correspondence confirming this consultation should be attached to this form.</i>	
	6.1	Describe and discuss the consultation undertaken. (<i>Who was consulted and why?</i>)	
	6.2	Describe and discuss the response from those consulted.	
	6.3	Describe your response to the views of those consulted.	
	7.0	Affected Persons	
	7.1	If you have identified any persons likely to be adversely affected by this proposal/application then fill out the "Written Approval of Affected Parties" Form. Attach signed relevant plans.	
	7.2	Discuss if anyone refused to give their written approval.	
	8.0	Monitoring - discuss if monitoring is required and how it will be carried out.	
	8.1	Provide details of any proposed monitoring.	
	8.2	Discuss any proposed conditions of consent.	