

WAITAHA HYDRO SCHEME – FTAA-2505-1069

APPENDIX C : LIST OF CONCESSIONS | ĀPITI HANGA C: RĀRANGA O NGĀ WHAKAAETANGA

Activity	Component Detail/Sub-Activities	Location
Headworks		
Permanent structures and activities	Diversion weir (with kōaro and whio ¹ passage), intake structure, upper access tunnel portal and accessway between upper tunnel portal and intake structure and associated protection works	E1415821 N5222165
	Take and diversion of Waitaha River flows	
	Foot and vehicle access between upper tunnel portal and Headworks structures Ongoing operational maintenance activities including in-stream Works to undertake Headworks maintenance	
Temporary construction structures	Construction Staging Area 1 and sediment and erosion control structures.	E1416142
	Accessway between upper tunnel portal to Construction Staging Area 1 and associated culverts	N5222039
Temporary construction activities	All activities associated with: <ul style="list-style-type: none"> The formation of Construction Staging Area 1 and its associated accessway and sediment and erosion control devices The construction of all Headworks components and associated in-stream Works 	

¹ Whio passage only provided if weir design can provide it without compromising ongoing exclusion of salmonid passage.

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Activity	Component Detail/Sub-Activities	Location
	Foot and vehicle access between upper tunnel portal and Headworks construction area and Construction Staging Area 1	E1415821 N5222165
	Surface water take intake structure and water line to supply construction equipment	E1415852 N5222158
	Incidental construction related discharges to land, water and air	E1415821 N5222165
	Helicopter use, hovering and landing at Construction Staging Area 1	E1416142 N5222039
Drone use	Use of drones (if required) during construction/final design	E1415821 N5222165
Tunnels and other underground scheme components		
Permanent structures and activities	Access and pressurised water tunnels, desander, penstock and associated plant, equipment pipes, and drainage infrastructure	<u>Top:</u> E1415855
	Convey Waitaha River water and incidental groundwater seepages	N5222174
	Foot and vehicle access and communication and electrical cabling between Power Station Site and Headworks via the access tunnel	<u>Bottom:</u>
	Ongoing operational and maintenance activities	E1415363

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Activity	Component Detail/Sub-Activities	Location
Temporary construction structures	Structural supports, pipes and drains required during tunnel construction Surface water take intake structure and water line to supply drilling equipment	N5223612
Temporary construction activities	All activities associated with tunnel drilling and construction of underground Scheme components	
	Foot and vehicle access within tunnels during construction	
	Incidental construction related discharges to land, air and water	
Power Station Site		
Permanent structures and activities	All physical components comprising the Power Station Site including, but not necessarily limited to, tunnel portals, slope protection works, penstock, Power Station, switchyard, tail bay, tailrace, stop-bank and flood protection works	E1415334 N5223633
	Power Station Site maintenance works	
	Discharge water from the Power Station	
	Foot and vehicle access within and around the Power Station Site	
	All ongoing Power Station operations and maintenance activities	
Temporary construction structures	Construction Staging Area 2 including all structures and equipment required to construct the Power Station Site, service the tunnel drilling operation and treat tunnel discharges and all sediment and erosion control structures	
Temporary construction activities	All activities associated with: <ul style="list-style-type: none"> The formation of Construction Staging Area 2 and its associated sediment and erosion 	

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Activity	Component Detail/Sub-Activities	Location
	control devices <ul style="list-style-type: none"> The construction of the Power Station Site and all its associated physical components 	
	Foot and vehicle access within and around the Power Station Site and Construction Staging Area 2 during construction	
	Incidental construction related discharges to land, water and air	
	Helicopter use, hovering and landing at Construction Staging Area 2	
Drone use	Use of drones (if required) during construction / final design	
Access road and transmission line		
Permanent structures and activities	Access road between the Power Station Site and Macgregor Creek including the Alpha Creek box culvert and associated river training structures, the Granite Creek bridge, stormwater management devices and structure protection works	<u>Southern end:</u> E1415345 N5223694 <u>Northern end:</u> E1415743 N5225780
	Access road over Section 1 SO 11859 (Marginal Strip), Section 3 SO 11859 (Marginal Strip), Lot 2, DO 376096, and Rural Section 933 including the Allen Creek culvert and associated stormwater management devices and structure protection works	
	Above-ground transmission lines and poles and communication cables between the Power Station Site and Macgregor Creek, including that a section of transmission lines will occupy the airspace	
	Foot and vehicle access over Section 1 SO 11859 (Marginal Strip), Section 3 SO 11859 (Marginal Strip), Lot 2, DO 376096, and Rural Section 933 between the Power Station Site and Macgregor Creek	

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Activity	Component Detail/Sub-Activities	Location
	<p>Above-ground electricity and electronic communications conveyance</p> <p>All ongoing access road, stream crossing, river training structure maintenance activities including associated in-stream Works</p> <p>All ongoing transmission line and tower operations and maintenance activities</p>	
Temporary construction structures	<p>Access road erosion and sediment control devices</p> <p>Temporary vehicle accessway along Waitaha Riverbed to construct temporary Granite Creek bridge</p> <p>Temporary Granite Creek bridge</p>	
Temporary construction activities	<p>All activities associated with:</p> <ul style="list-style-type: none"> • The formation of the temporary vehicle accessway along Waitaha Riverbed and the construction of the temporary Granite Creek bridge • Formation of the permanent access road and its associated stream crossing structures and related sediment and erosion control devices • The construction of the transmission lines and all their associated physical components <p>Foot and vehicle access within the access road / transmission line corridor during construction</p> <p>Incidental construction related discharges to land, water and air</p> <p>Helicopter use for transmission line construction</p>	

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Activity	Component Detail/Sub-Activities	Location
Drone use	Use of drones (if required) during construction / final design	
Other ancillary structures, equipment and activities		
Permanent structures	River flow and weather monitoring stations including flow recording radar immediately downstream of the diversion weir	Mapping co-ordinates register Appendix 1 of Application
	Safety/awareness devices including sirens and other operational signage Other ancillary structures and ancillary components of structures comprising the Scheme as set out in in the application documents	Various
	Foot access from Headworks to river flow and foot and helicopter access to weather monitoring stations	
Scheme operation activities	Ancillary activities associated with operating, monitoring and maintaining the scheme as set out in the application documents	
Temporary structures and activities	Temporary construction activities associated with the relocation of a section of walking track to avoid the Power Station Site	<u>Southern end:</u> E145183 N5224416 <u>Northern end:</u> E145406 N5223856
	Other structures required to be temporarily installed or constructed in accordance with the Approvals conditions, including for the implementation of any certified management or monitoring plan, during the construction, operation and maintenance of the Scheme	Various

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Activity	Component Detail/Sub-Activities	Location
	Other temporary activities required to be undertaken in accordance with the Approvals conditions, including during the implementation of any certified management or monitoring plan, during the construction, operation and maintenance of the Scheme	
	All structures, works and activities ancillary to the matters set out above as set out in the application documentation	