

Attachment 6: Update to Part B, AEE Table 13

Table 13: Summary of Activities and Types of Concession Required

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
Geotechnical Investigations and Monitoring					
Investigative drilling and testing activities	Construction and temporary use of drilling pads, access tracks, drilling camp sites and construction of geotechnical investigation bore holes.		Section 3.5.1 Figure 19	One-off process	E 1415721 N 5222563
	Non-invasive geophysical testing of ground conditions				
	Helicopter hovering at drilling locations and hover and or land at camp sites.			One-off process	
Permanent structures and activities	Bore holes			Lease	
	Access to and use of geotechnical investigation bore holes for long-term testing and investigations			Lease	
Headworks					
Permanent structures and activities	Diversion weir (with kōaro and whio ² passage), intake structure, upper	Kayaker portage accessway, siren, lighting, security and operation cameras,	Section 3.3.1 Figures 5 and 7	Lease=	E 1415821 N 5222165

¹ To be discussed further with the Department of Conservation and refined.

² Whio passage only provided if weir design can provide it without compromising ongoing exclusion of salmonid passage

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	access tunnel portal and accessway between upper tunnel portal and intake structure and associated protection works.	communication equipment, signage			
	Take and diversion of Waitaha River Flows	For generation and Headworks maintenance		Lease	
	Foot and vehicle access between upper tunnel portal and Headworks structures.			Easement	
	Ongoing operational and maintenance activities including in-Stream Works to undertake headworks maintenance.	Stream Works – sediment clearing area upstream of intake		Licence	
Temporary construction structures	Construction Staging Area 1 and sediment and erosion control structures. Accessway between upper tunnel portal to Construction Staging Area 1 and associated culverts.	Accommodation	Section 3.3.1 Figures 5 and 7 Sections 3.5.5 to 3.5.8 and Section 3.5.11.5 Figures 5 and 22	Short-term lease/licence	E 1416142 N 5222039
Temporary construction activities	All activities associated with; > The formation of Construction Staging Area 1 and its associated accessway and sediment and	Includes sediment retention ponds, pH dosing, equipment, materials, vegetation and spoil storage, amenities, helicopter landing sites, hazardous substances storage,	DRAFT ESCP	Short-term lease/licence	

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	erosion control devices; and > The construction of all Headworks components and associated in-Stream Works	rockfall and slope protection works. Stream Works and structures, includes kōaro/whio passage and kayaker portage accessway.			
	Foot and vehicle access between upper tunnel portal and Headworks construction area and Construction Staging Area 1				E 1415821 N 5222165
	Surface water take intake structure and water line to supply construction equipment				E1415852 N5222158
	Incidental construction related discharges to land, water and air				E 1415821 N 5222165
	Helicopter use, hovering and landing at Construction Staging Area 1	Up to 8 trips per day for general construction work and up to 30 trips per day during high demand construction tasks at the headworks prior to the access tunnel being completed		Short-term licence	E 1416142 N 5222039
Drone use	Use of drones (if required) during construction / final design			Short-term licence	E 1415821 N 5222165

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
Tunnels and Other Underground Scheme Components					
Permanent structures	Access and pressurised water tunnels, desander, penstock and associated plant, equipment pipes, and drainage infrastructure.	Includes tunnel portals, tunnel water management and reticulation structures, services (electricity, ventilation, communications), sediment management, lighting, storage, rockfall and slope protection works	Section 3.3.2 Figures 5 and 8	Lease/licence	Top:
					E 1415855
					N 5222174
					Bottom:
					E 1415363
					N 5223612
	Convey Waitaha River water and incidental groundwater seepages			Lease	
	Foot and vehicle access and communication and electrical cabling between Power Station Site and Headworks via the access tunnel.			Easement	
	Ongoing operational and maintenance activities.			Licence	
Temporary construction structures	Structural supports, pipes and drains required during tunnel construction Surface water take intake structure and water line to supply drilling equipment	Including ventilation equipment, electricity cables, ESCP structures, communications cables, refuge cabins; communications equipment, HSE signage	Section 3.5.13 Figures 5 and 8	Short-term lease	

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
Temporary construction activities	<p>All activities associated with tunnel drilling and construction of underground Scheme components</p> <hr/> <p>Foot and vehicle access within tunnels during construction</p> <hr/> <p>Incidental construction related discharges to land, air and water</p>	Diversion and discharges from the tunnel		Short-term lease	
Power Station Site					
Permanent Structures	<p>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.</p> <p>Power Station Site maintenance works.</p> <hr/> <p>Discharge water from the Power Station</p> <hr/> <p>Foot and vehicle access within and around the Power Station Site.</p>	<p>Siren, stormwater reticulation and management structures, bypass valve; lighting, security and operation cameras, communications equipment, septic holding tank; hazardous substance storage.</p> <hr/> <p>Including intermittent and temporary discharge plumes from the by-pass valve.</p>	<p>Section 3.3.3</p> <p>Figures 5 and 9</p>	<p>Lease</p> <hr/> <p>Lease</p> <hr/> <p>Easement</p>	<p>E 1415334</p> <p>N 5223633</p>

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	All ongoing Power Station operations and maintenance activities.	Including water take for amenities and for generation. Sediment discharges to tailrace. Operating emergency diesel generator and associated air discharges		Lease	
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.	Includes sediment retention ponds, pH dosing plant, equipment, material, vegetation and spoil storage, amenities, accommodation, helicopter landing sites, hazardous substances storage.	Sections 3.5.5 to 3.5.8 Figures 5 and 9 DRAFT ESCP	Short-term lease	
Temporary construction activities	<p>All activities associated with;</p> <ul style="list-style-type: none"> > The formation of Construction Staging Area 2 and its associated sediment and erosion control devices; and > The construction of the Power Station Site and all its associated physical components. 			Short-term lease/licence	
	Foot and vehicle access within and around Power Station Site and Construction				

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	Staging Area 2 during construction.				
	Incidental construction related discharges to land, water and air				
	Helicopter use, hovering and landing at Construction Staging Area 2.	Up to 8 trips per day for general construction work		Short-term licence	
Drone use	Use of drones (if required) during construction / final design			Short-term licence	
Access road and transmission line					
Permanent structures	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.		Section 3.3.7 to 3.3.9	License /easement	Southern end:
			Figures 5, 12, 13, 15 and 16		E 1415345
			Appendix 46		N5223694
			Update in		Northern end:
			Westpower		E 1415743
			Memorandum #2 to the		N 5225780
			Panel, Attachment		
			5B, figure		
			showing all		
			marginal		
			strips		
	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				

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	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.			Easement	
	Above-ground electricity and electronic communications conveyance.				
	All ongoing access road, stream crossing, river training structure maintenance activities including associated in-Stream Works.		Section 3.7		
	All ongoing transmission line and tower operations and maintenance activities.				

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
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>		<p>Sections 3.5.5 to 3.5.8 and Section 3.5.11</p> <p>Figures 5, 12, 13, 15 and 16</p> <p>DRAFT ESCP</p>	Short-term lease/licence	
Temporary construction activities	<p>All activities associated with;</p> <ul style="list-style-type: none"> > The formation of the temporary vehicle accessway along Waitaha River bed 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; and > The construction of the transmission lines and all their associated physical components. 	Includes all associated Stream Works		Short-term licence	

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	Foot and vehicle access within the access road / transmission line corridor during construction.				
	Incidental construction related discharges to land, water and air.				
	Helicopter use for transmission line construction	Average of 2 to 4 trips per day		Short-term licence	
Drone use	Use of drones (if required) during construction / final design			Short-term licence	
Other Ancillary Structures, Equipment and Activities					
Permanent structures	River flow and weather monitoring stations including flow recording radar immediately downstream of the diversion weir.		Section 3.3.6 Figures 10 and 11	Lease	Refer Project Mapping Coordinates Register (Appendix 1)
	Safety/awareness devices including sirens and other operational signage.			Licence	Various locations across the Scheme
	Other ancillary structures and ancillary components of structures comprising the Scheme as set out in the application documents.				

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	Foot access from Headworks to river flow and foot and helicopter access to weather monitoring stations.			Easement / Licence	
Scheme operation activities	Ancillary activities associated with operating, monitoring and maintaining the scheme as set out in the application documents.	All ancillary activities including access for predator control, weed control, ecosystem monitoring (e.g. eDNA, flushing trials, whio, fish, bats, kōaro etc). Signage for HSE, bypass valve plume	Figure 5	Licence	
Temporary structures and activities	Temporary construction activities associated with the relocation of a section of walking track to avoid the Power Station Site		Figure 25		Southern end: E 1415183 N 5224416 Northern end: E 1415406 N 5223856
	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,		Figure 5	Licence	Various locations across the Scheme

Scheme Component or Activity	Component Detail / Sub-Activities	Further non-exhaustive details	AEE Section / Figure	Indicative Concession Type ¹	General Location Map Reference
	operation and maintenance of the Scheme.				
	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.			Licence	
	All structures, works and activities ancillary to the matters set out above as set out in the application documentation			Lease/licence /easement as appropriate	