

Table 1: Interaction matrix used to identify potential interactions between candidate valued components and project components or activities

Candidate Valued Components	Is there a potential to interact with project components and associated activities, either during project construction or operation?								Will potential changes be described in the EIS?	Is it considered a Valued Component in the assessment?	If not considered a Valued Component, under which more appropriate disciplines will potential changes/effects be evaluated?
	Dam, Generating Station, and Spillways	Reservoir (including Hudson's Hope Shoreline Protection)	Substation and Transmission Line to Peace Canyon	Road and Rail Access	Highway 29 Realignments	Quarried and Excavated Construction Materials	Worker Accommodation				
Water Quality	✓	✓	✓	✓	✓	✓	✓	yes	no	1, 22	
Surface Water Hydrology	✓	✓	✓	✓	✓	✗	✓	yes	no	1, 3, 9, 13, 14, 15, 19, 20	
Fluvial Geomorphology and Sediment Transport	✓	✓	✗	✗	✓	✗	✗	yes	no	1, 2, 3, 11, 15, 22	
Groundwater	✗	✓	✗	✗	✗	✗	✗	yes	no	9, 19, 22	
Ice Regime	✓	✓	✗	✗	✗	✗	✗	yes	no	1, 3, 8, 14, 15, 20	
Noise and Vibration	✓	✓	✓	✓	✓	✓	✓	yes	no	1, 3, 22	
Microclimate	✗	✓	✗	✗	✗	✗	✗	yes	no	9, 15, 20	
Air Quality	✓	✓	✓	✓	✓	✓	✓	yes	no	4, 22	
Soil and Terrain	✗	✓	✓	✗	✗	✗	✗	yes	no	1, 2, 3, 4, 8, 9, 10, 11, 13, 14, 15, 16, 19, 21	
Contaminated Sites	✗	✓	✗	✗	✓	✗	✗	yes	no	1, 22 (see Volume 1 Section 4 Project Description)	
Electric and Magnetic Fields	✗	✗	✓	✗	✗	✗	✗	yes	no	22	
Peace Athabasca Delta	✗	✗	✗	✗	✗	✗	✗	no	no	n/a, beyond spatial influence of the Project. Please refer to Volume 2 Section 11.4 and 11.7 for details.	
Greenhouse Gases	✗	✓	✓	✗	✗	✗	✗	yes	yes	4	
Climate Change	✓	✓	✗	✗	✗	✗	✗	yes	no	The effects of the Project on climate change are considered in relation to the GHG VC above. Climate change is considered in relation to changes to the surface water regime and to the thermal and ice regime, the effects of the environment on the Project, and certain VCs.	

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	Dam, Generating Station, and Spillways	Reservoir (including Hudson's Hope Shoreline Protection)	Substation and Transmission Line to Peace Canyon	Road and Rail Access	Highway 29 Realignments	Quarried and Excavated Construction Materials	Worker Accommodation				
Fish and Fish Habitat	✓	✓	✓	✓	✓	X	X	yes	yes	1	
Species - Bull Trout	✓	✓	✓	✓	✓	X	X	yes	no	1	
Aquatic Productivity	✓	✓	✓	✓	✓	X	X	yes	no	1	
Benthic Invertebrates	✓	✓	✓	✓	✓	X	X	yes	no	1	
Methyl Mercury	X	✓	X	X	X	X	X	yes	no	1, 22	
Vegetation and Ecological Communities	✓	✓	✓	✓	✓	✓	✓	yes	yes	2	
Rare Plants	✓	✓	✓	✓	✓	✓	✓	yes	no	2	
Rare and Sensitive Ecosystems	✓	✓	✓	✓	✓	✓	✓	yes	no	2	
Wildlife Resources	✓	✓	✓	✓	✓	✓	✓	yes	yes	3	
Insects	✓	✓	✓	✓	✓	✓	✓	no	no	n/a, butterflies and dragonflies were considered in wildlife resources (3).	
Butterflies and Dragonflies	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Amphibians and Reptiles	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Migratory Birds	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Non-Migratory Game Birds	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Raptors	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Bats	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Furbearers	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Ungulates	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Caribou	X	X	X	X	X	X	X	no	no	3	
Carnivores	✓	✓	✓	✓	✓	✓	✓	yes	no	3	
Grizzly Bear	X	X	X	X	X	X	X	yes	no	3	

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	Disciplines listed below are Valued Components in the assessment										
	Dam, Generating Station, and Spillways Reservoir (including Hudson's Hope Shoreline Protection) Substation and Transmission Line to Peace Canyon Road and Rail Access Highway 29 Realignments Quarried and Excavated Construction Materials Worker Accommodation										1. Fish and Fish Habitat 2. Vegetation and Ecological Communities 3. Wildlife Resources 4. Greenhouse Gases 5. Local Government Revenue 6. Labour Market 7. Regional Economic Development 8. Current Use of Lands and Resources for Traditional Purposes 9. Agriculture 10. Forestry 11. Oil, Gas and Energy 12. Minerals and Aggregates 13. Harvest of Fish and Wildlife Resources 14. Outdoor Recreation and Tourism 15. Navigation 16. Visual Resources 17. Population and Demographics 18. Housing 19. Community Infrastructure and Services 20. Transportation 21. Heritage Resources 22. Human Health
Local Government Revenue	Interactions are aggregated at the Project level								yes	yes	5
Labour Market	Interactions are aggregated at the Project level								yes	yes	6
Regional Economic Development	Interactions are aggregated at the Project level								yes	yes	7
Population and Demographics	Interactions are aggregated at the Project level								yes	yes	17
Housing	Interactions are aggregated at the Project level								yes	yes	18
Community Infrastructure and Services	Interactions are aggregated at the Project level								yes	yes	19
Transportation	Interactions are aggregated at the Project level								yes	yes	20
Healthy Living	Interactions are aggregated at the Project level								no	no	n/a, no longer a provincial requirement, but the social assessment addresses similar interests.
Human Health	✓	✓	✓	✓	✓	✓	✓	yes	yes	22	
Agriculture	X	✓	✓	✓	✓	X	X	yes	yes	9	
Agricultural Resource Base	X	✓	✓	✓	✓	X	X	yes	no	9	
Agricultural Systems	X	X	X	✓	✓	X	X	yes	no	9	
Forestry	X	✓	✓	✓	✓	✓	✓	yes	yes	10	
Oil, Gas and Energy	X	✓	✓	✓	✓	✓	✓	yes	yes	11	
Minerals and Aggregates	✓	✓	✓	✓	✓	✓	✓	yes	yes	12	
Current Use of Lands and Resources for Traditional Purposes	✓	✓	✓	✓	✓	✓	✓	yes	yes	8	
Harvest of Fish and Wildlife Resources	✓	✓	✓	✓	✓	✓	✓	yes	yes	13	
Country Foods	✓	✓	✓	✓	✓	✓	✓	yes	no	22	
Hunting and Fishing	✓	✓	✓	✓	✓	✓	✓	yes	no	13	
Guide Outfitting	✓	✓	✓	✓	✓	✓	✓	yes	no	13	
Trapping	✓	✓	✓	✓	✓	✓	✓	yes	no	13	
Outdoor Recreation and Tourism	✓	✓	✓	✓	✓	✓	✓	yes	yes	14	
Navigation (Water and Air)	✓	✓	✓	✓	✓	✓	✓	yes	yes	15	
Visual and Aesthetic Resources	✓	✓	✓	✓	✓	✓	✓	yes	yes	16	
Heritage Resources	✓	✓	✓	✓	✓	✓	✓	yes	yes	21	
Historic Resources	✓	✓	✓	✓	✓	✓	✓	yes	no	21	
Archeological Resources	✓	✓	✓	✓	✓	✓	✓	yes	no	21	
Paleontological Resources	✓	✓	✓	✓	✓	✓	✓	yes	no	21	

Associated Project Component	Project Components, Physical Works, and Associated Activities	Valued Components																				Rationale / Mitigation Comments
		Fish and Fish Habitat (F&FH)	Vegetation and Ecological Communities (V&EC)	Wildlife Resources (WR)	Greenhouse Gases (GHG)	Local Government Revenue (LGR)	Labour Market (LM)	Regional Economic Development (RED)	Oil, Gas and Res. for Trad. Purposes (OC&E)	Minerals and Aggregates (M&A)	Harvest of Fish and Wildlife Resources (HFWR)	Outdoor Recreation and Tourism (OR&T)	Visual and Aesthetic Resources (VAR)	Population and Demographics (P&D)	Housing (Hou)	Community Infrastructure and Services (C&S)	Heritage Resources (HR)	Human Health (HH)				
Dam, Generating Station, and Spillways	Concrete batch plant storage; mixing; load and transport.	0	0	0	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	F&FH: No overlap in time and space between the Project activity or component and the Valued Component. V&EC, WR, Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. HR: Assumes there will be no subsurface disturbance during installation beyond that already captured in site prep and clearing activity. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Relocation of surplus excavated material clear, grub, and strip; construct retention dyke; install lining (if required); cap material as required.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Temporary construction access bridge across the Peace pile installation in river channel; erect girders and deck.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. HH: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Sand and gravel source pits excavation; load and transport.	0	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Stage 1 channelization and diversion works (north bank) Stage 1 coffer dams; diversion portals/structures/tunnels.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Land is not within the ALR and/or grazing tenures. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Stage 1 channelization works (south bank) Stage 1 coffer dams.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Stage 2 - diversion remove cofferdams up- and downstream of tunnel; place riprap; upstream and downstream closure.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. HH: Assumes that air quality, water quality, noise and vibration will be mitigated and managed within applicable standards. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Stage 2 - Diversion Earthfill dam and north bank excavation excavate and relocate excess overburden and rock; shotcrete rock foundation; drill and inject grout for dam foundation; place impervious core material, sand and gravel filters, and gravel shells; place riprap; asphalt pave powerhouse access road on the downstream face of the dam.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Land is not within the ALR and/or grazing tenures. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways	Stage 2 - Diversion South bank structures excavate and relocate excess overburden and rock; shotcrete rock foundation; drill and inject grout for dam foundation; excavate shear zones and place plastic concrete; place impervious material in approach channel lining; place riprap and bedding, sand and gravel drains; place and cure RCC and structural concrete; erect structural steel using heavy machinery; excavate river gravel; place riprap and bedding; remove cutoff wall at tailrace exit, erect steel penstocks and place surrounding gravel fill; asphalt pave powerhouse parking areas; install spillway and intake gates, structural steel for spillway access bridge, generating equipment, transformers and oil separators, ancillary mechanical and electrical equipment, and transmission lines from powerhouse to substation.	2	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	Ag: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint. n/a = interactions are more appropriately described at the Project or project component level
Dam, Generating Station, and Spillways and Substation and Transmission Line to Peace Canyon	Transportation of construction materials and supplies (includes quarried materials and other materials needed for all project components) Fort St. John routes; Jackfish Lake Road; highway routes; forest service and petroleum development roads; on-site roads; train.	0	0	2	n/a	n/a	n/a	n/a	1	1	n/a	n/a	0	1	n/a	n/a	n/a	n/a	2	0	n/a	F&FH, HFWR, HR: No overlap in time and space between the Project activity or component and the Valued Component. V&EC: No overlap with the use of existing roads and rail that are used for similar purposes. Ag, OR&T: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. For: Standard mitigations include Traffic Management Plan and road use agreements (where appropriate). n/a = interactions are more appropriately described at the Project or project component level

Associated Project Component	Project Components, Physical Works, and Associated Activities	Valued Components																				Rationale / Mitigation Comments		
		Fish and Fish Habitat (F&FH)	Vegetation and Ecological Communities (N&EC)	Wildlife Resources (WR)	Greenhouse Gases (GHG)	Local Government Revenue (LGR)	Labour Market (LM)	Regional Economic Development (RED)	Current Use of Lands and Res. for Trad. Purposes (CULRTP)	Agriculture (Ag)	Forestry (For)	Oil, Gas and Energy (OC&E)	Minerals and Aggregates (M&A)	Harvest of Fish and Wildlife Resources (HFWR)	Outdoor Recreation and Tourism (OR&T)	Navigation (Nav)	Visual and Aesthetic Resources (VAR)	Population and Demographics (P&D)	Housing (Hou)	Community Infrastructure and Services (C&S)	Transportation (Trans)		Heritage Resources (HR)	Human Health (HH)
Reservoir Preparation and Filling	Reservoir Preparation and Filling - Component Level Interactions	n/a	n/a	n/a	2	n/a	2	n/a	2	2	2	2	2	2	n/a	2	2	2	2	n/a	2	n/a	2	n/a = interactions are more appropriately described at the Project level above or physical work/activity level below.
Dam, Generating Station, and Spillways and Reservoir	Existing infrastructure inventory, protection and/or relocation	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assume limited interaction with Valued Component and best management practices are available for instream works. Nav: No overlap in time and space between the Project activity or component and the Valued Component. GHG: No Greenhouse Gas emissions associated with this activity. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Hudson's Hope Shoreline Protection relocation of overhead utilities; relocation of underground utilities; transportation of construction materials and supplies; construction of shoreline protection berm	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	n/a	2	n/a	Nav: Public Safety Management Plan will mitigate potential effects on the VC. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Access: upgrades to existing licensee roads, winter road construction site preparation; earthworks, temporary water crossings, and; drainage	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumes limited interaction with Valued Component and best management practices are available for temporary road works, temporary bridges and instream works. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Clearing of vegetation and timber by manual or mechanical means felling and clearing, yarding.	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumes limited interaction with Valued Component, activities can be managed and mitigated with best management practices, buffer areas will be maintained Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Transport of merchantable timber away from the reservoir area by truck	0	0	2	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	2	0	n/a	F&FH, Nav, HR: No overlap in time and space between the Project activity or component and the Valued Component. V&EC: No overlap with the use of existing roads and rail that are used for similar purposes. Ag: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. For: Standard mitigations include Traffic Management Plan and road use agreements (where appropriate). n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Post-harvest terrestrial debris management burning of cleared material where feasible; chipping/grinding where burning not feasible	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse. Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Access road deactivation and reclamation of exposed cuts and fills, where required	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	n/a	2	n/a	F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse. Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Aquatic debris management during inundation	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	0	n/a	F&FH: Assumes limited interaction with Valued Component, activities can be managed and mitigated with best management practices HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Water management during confinement changes in flow volume, river level and flow velocity.	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Water management during diversion changes in flow volume, river level and headpond area, and flow velocity.	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Water management during reservoir filling Filling: inundation of lands in the Site C reservoir area, downstream flow changes. Commissioning: change in flow volume, velocity and river level; increased non-power releases.	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a = interactions are more appropriately described at the Project or project component level	
Reservoir Preparation and Filling	Water management during commissioning Filling: inundation of lands in the Site C reservoir area, downstream flow changes. Commissioning: change in flow volume, velocity and river level; increased non-power releases.	2	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a = interactions are more appropriately described at the Project or project component level	

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Substation and Transmission Line to Peace Canyon	Substation and Transmission Line to Peace Canyon Construction - Component Level Interactions	n/a	n/a	n/a	2	n/a	2	n/a	2	2	2	2	2	2	n/a	2	2	1	n/a	n/a	n/a	2	Hou: Non-dam site worker housing interactions are nominal relative to current and projected regional population/housing activities, are well understood, and are managed under the provincial regulatory framework. n/a = interactions are more appropriately described at the Project level above or physical work/activity level below.	
Substation and Transmission Line to Peace Canyon	Site/corridor clearing and preparation felling, yarding and clearing; grubbing, stripping and grading at select sites within RoW; hauling cleared logs and vegetation, burning of cleared vegetation (when other options are not possible).	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Assumes limited interaction with Valued Component, no fish bearing watercourses in project area, activities can be managed and mitigated with best management practices Nav, Trans: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Access construction and right-of-way improvement improvement of existing road; construction of access tracks (i.e. spur roads) to tower sites; water course crossings where required.	1	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	1	2	n/a	F&FH: Assumes limited interaction with Valued Component, activities can be managed and mitigated with best management practices Nav: No overlap in time and space between the Project activity or component and the Valued Component. Trans: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Tower installation installation of foundation and anchor; tower assembly and erection; counterpoise installation.	0	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). Nav: Standard navigation mitigations for signals, markings and notifications re: overhead structures such as towers and conductors crossing navigable waters. Trans: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Conductor stringing establish puller/tensioner sites along the alignment; helicopter stringing of pilot and sock line along transmission corridor; conductor pulling and tensioning; installation of marker balls.	0	0	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1	n/a	n/a	n/a	n/a	0	0	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). V&EC: Site prep and clearing interaction has already occurred and been accounted for. Trans, HR: No overlap in time and space between the Project activity or component and the Valued Component. Nav: Standard navigation mitigations for signals, markings and notifications re: overhead structures such as towers and conductors crossing navigable waters. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Construction site decommissioning and restoration/reclamation identification and provision of drainage; deactivation/reclamation of disturbed areas.	0	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse. Nav, Trans: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Upgrades to Peace Canyon Substation	0	2	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	0	0	n/a	F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse. Nav, Trans, HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Substation and Transmission Line to Peace Canyon	Site C Substation installation gravel and fence substation; ground grid and fencing; place and cure concrete; install and test electrical equipment.	0	0	2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). V&EC: Site prep and clearing interaction has already occurred and been accounted for. Nav, Trans: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Quarried and Excavated Construction Materials	Quarried and Excavated Construction Materials Development - Component Level Interactions	n/a	n/a	n/a	2	n/a	n/a	n/a	2	n/a	2	2	2	n/a	n/a	n/a	2	2	1	n/a	n/a	n/a	2	Hou: Non-dam site worker housing interactions are nominal relative to current and projected regional population/housing activities, are well understood, and are managed under the provincial regulatory framework. n/a = interactions are more appropriately described at the Project level above or physical work/activity level below.
Quarried and Excavated Construction Materials	West Pine Siding extension site preparation, earthworks (incl. cut-and-fill construction and drainage); drainage (incl. ditching and culverts); electrical construction at intersections where required.	1	2	2	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). Standard measures will be implemented when activities are conducted adjacent to a watercourse. Ag, HFWR, OR&T, Nav: No overlap in time and space between the Project activity or component and the Valued Component. Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately. HH: Assumes that air quality, water quality, noise and vibration will be mitigated and managed within applicable standards. n/a = interactions are more appropriately described at the Project or project component level

Associated Project Component	Project Components, Physical Works, and Associated Activities	Valued Components																				Rationale / Mitigation Comments	
		Fish and Fish Habitat (F&FH)	Vegetation and Ecological Communities (N&EC)	Wildlife Resources (WR)	Greenhouse Gases (GHG)	Local Government Revenue (LGR)	Labour Market (LM)	Regional Economic Development (RED)	Current Use of Lands and Res. for Trad. Purposes (CULRTP)	Agriculture (Ag)	Forestry (For)	Oil, Gas and Energy (OC&E)	Minerals and Aggregates (M&A)	Harvest of Fish and Wildlife Resources (HFWR)	Outdoor Recreation and Tourism (OR&T)	Visual and Aesthetic Resources (VAR)	Population and Demographics (P&D)	Housing (Hou)	Community Infrastructure and Services (C&S)	Transportation (Trans)	Heritage Resources (HR)		Human Health (HH)
Quarried and Excavated Construction Materials	85th Avenue Industrial Lands site preparation; installation and operation of temporary facilities; quarry operations; site reclamation.	1	2	2	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>Ag: Land is not within the ALR and/or grazing tenures.</p> <p>HFWR, OR&T: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	Wuthrich Quarry site preparation; installation and operation of temporary facilities; quarry operations (incl. blasting).	1	2	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>HFWR, OR&T, Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	West Pine Quarry site preparation; installation and operation of temporary facilities; quarry operations (incl. blasting); site reclamation.	1	2	2	n/a	n/a	n/a	n/a	n/a	1	1	n/a	n/a	2	2	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>Ag, For: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components.</p> <p>Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	Portage Mountain Quarry site preparation; installation and operation of temporary facilities; quarry operations (incl. blasting).	1	2	2	n/a	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	2	2	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>Ag: Land is not within the ALR and/or grazing tenures.</p> <p>Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	Del Rio granular borrow site preparation, earthworks	1	2	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation); Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>OR&T, Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>HFWR: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	Other Sources Granular borrow (within inundation zone, along Hwy. 29) site preparation, earthworks, crushing	1	2	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation); Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>HFWR, OR&T: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint.</p> <p>Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>
Quarried and Excavated Construction Materials	Other Sources Area E site preparation, earthworks	1	2	2	n/a	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	<p>F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation); Standard measures will be implemented when activities are conducted adjacent to a watercourse.</p> <p>OR&T, Nav: No overlap in time and space between the Project activity or component and the Valued Component.</p> <p>HFWR: Site prep and clearing, dam construction area closure, and/or reservoir inundation is primary interaction with the Valued Component and not the associated minor works and activities within the outer footprint.</p> <p>Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately.</p> <p>n/a = interactions are more appropriately described at the Project or project component level</p>

Associated Project Component	Project Components, Physical Works, and Associated Activities	Valued Components																				Rationale / Mitigation Comments	
		Fish and Fish Habitat (F&FH)	Vegetation and Ecological Communities (N&EC)	Wildlife Resources (WR)	Greenhouse Gases (GHG)	Local Government Revenue (LGR)	Labour Market (LM)	Regional Economic Development (RED)	Current Use of Lands and Res. for Trad. Purposes (CULRTP)	Agriculture (Ag)	Forestry (For)	Oil, Gas and Energy (OC&E)	Minerals and Aggregates (M&A)	Harvest of Fish and Wildlife Resources (HFWR)	Outdoor Recreation and Tourism (OR&T)	Visual and Aesthetic Resources (VAR)	Population and Demographics (P&D)	Housing (Hou)	Community Infrastructure and Services (C&S)	Transportation (Trans)	Heritage Resources (HR)		Human Health (HH)
Quarried and Excavated Construction Materials	Other Sources On-site site preparation, earthworks, screen, wash, stockpile	1	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	2	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation); Standard measures will be implemented when activities are conducted adjacent to a watercourse. Ag, HFWR, OR&T, Nav: No overlap in time and space between the Project activity or component and the Valued Component. Trans: Traffic is primarily within construction footprint of project component or activity. Transportation of excavated construction materials between source and destination, and of goods and services to and from construction site, is accounted for separately. n/a = interactions are more appropriately described at the Project or project component level	
Quarried and Excavated Construction Materials	85th Avenue Till Source Conveyor Belt uncovered conveyor belt; loading directly into haulers through hopper or stack reclaimer; till material sprayed down for dust control, unloaded within grey area for stockpiling and transportation to the location of intended use.	0	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	0	0	0	n/a	n/a	n/a	0	0	n/a	F&FH, HFWR, OR&T, Nav, Trans, HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Highway 29 Realignments	Highway 29 Realignments site clearing and preparation; excavation and embankment of earthfill materials; installation and operation of production and support facilities (site offices, workshops and storage, truck washing station, aggregate processing plant, concrete batch plant, asphalt plant, temporary power generation); construction of bridge and associated works (temporary access to site, earthworks, bridge works [incl. retaining wall, footings, piers, abutment and wingwall, girder erection, and bridge deck construction], demolition of existing bridge and disposal of materials, landscaping (where required); road construction (earthworks, drainage, electrical construction, paving construction, placement of shoreline protection, reclaim old road prism, landscaping).	2	2	2	n/a	n/a	2	2	2	2	2	2	2	2	1	2	2	n/a	n/a	2	2	n/a	Nav: Navigation interactions and effects mitigated through standard practices defined by Transport Canada exercising its authority under the Navigable Waters Protection Act. n/a = interactions are more appropriately described at the Project or project component level
Road and Rails Access	Road and Rail Access Development - Component Level Interactions	n/a	n/a	n/a	2	n/a	n/a	n/a	2	n/a	2	2	2	n/a	n/a	2	2	1	n/a	n/a	n/a	2	Hou: Non-dam site worker housing interactions are nominal relative to current and projected regional population/housing activities, are well understood, and are managed under the provincial regulatory framework. n/a = interactions are more appropriately described at the Project level above or physical work/activity level below.
Road and Rails Access	Transmission line access roads site preparation; earthworks (incl. cut and fill construction and drainage); drainage (incl. ditching and culverts).	1	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	2	2	0	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumes limited interaction with Valued Component, activities can be managed and mitigated with best management practices Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level	
Road and Rails Access	Jackfish Lake Rd works (incl. improvement of existing Jackfish Lake Rd., extension of existing Jackfish Lake Rd., improvement of existing Jackfish Plateau PDRs leading towards dam site and Project Access Road) site preparation (incl. clearing and grubbing); earthworks (incl. cut and fill construction and drainage); drainage (incl. ditching and culverts); paving construction	1	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	2	2	0	n/a	n/a	n/a	n/a	2	2	n/a	F&FH: Assumes limited interaction with Valued Component as no fish bearing watercourses in project area and best management practices are available for instream drainage works Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Road and Rails Access	Old Fort Road realignment and widening, paving of 240 Road, widening of 271 Road and paving and extension of 269 Road. site preparation; earthworks incl. cut and fill construction and drainage); drainage (incl. ditching and culverts); paving construction; reclaim old road prism; revegetation	1	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	1	1	0	n/a	n/a	n/a	n/a	2	2	n/a	F&FH: Assumes limited interaction with Valued Component as no fish bearing watercourses in project area and best management practices are available for instream drainage works HFWR, OR&T: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. n/a = interactions are more appropriately described at the Project or project component level
Road and Rails Access	West Pine Quarry access site preparation; earthworks (incl. cut and fill construction and drainage); drainage (incl. ditching and culverts).	1	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	1	1	0	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumes limited interaction with Valued Component as no fish bearing watercourses in project area and best management practices are available for drainage works Ag, Nav: No overlap in time and space between the Project activity or component and the Valued Component. HFWR, OR&T: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. n/a = interactions are more appropriately described at the Project or project component level	

Associated Project Component	Project Components, Physical Works, and Associated Activities	Valued Components																				Rationale / Mitigation Comments	
		Fish and Fish Habitat (F&FH)	Vegetation and Ecological Communities (V&EC)	Wildlife Resources (WR)	Greenhouse Gases (GHG)	Local Government Revenue (LGR)	Labour Market (LM)	Regional Economic Development (RED)	Oil, Gas and Res. for Trad. Purposes (CULRTP)	Minerals and Energy (OG&E)	Harvest of Fish and Wildlife Resources (HFWR)	Outdoor Recreation and Tourism (OR&T)	Navigation (Nav)	Visual and Aesthetic Resources (VAR)	Population and Demographics (P&D)	Housing (Hou)	Community Infrastructure and Services (C&S)	Heritage Resources (HR)	Human Health (HH)				
Road and Rails Access	West Pine Siding construction site preparation; earthworks (incl. cut and fill construction and drainage); drainage (incl. ditching and culverts); railway construction (ballast, rail ties and rails) paving construction; re-vegetation.	1	2	2	n/a	n/a	n/a	n/a	0	n/a	n/a	n/a	1	1	0	n/a	n/a	n/a	n/a	2	n/a	F&FH: Assumes limited interaction with Valued Component as no fish bearing watercourses in project area and best management practices are available for drainage works Ag, Nav: No overlap in time and space between the Project activity or component and the Valued Component. HFWR, OR&T: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. n/a = interactions are more appropriately described at the Project or project component level	
Road and Rails Access	Septimus Rail Siding construction site preparation; earthworks (incl. cut and fill construction and drainage); drainage (incl. ditching and culverts); railway construction (ballast, rail ties and rails) paving construction; re-vegetation.	1	2	2	n/a	n/a	n/a	n/a	2	n/a	n/a	n/a	1	1	0	n/a	n/a	n/a	n/a	0	2	n/a	F&FH: Assumes limited interaction with Valued Component as no fish bearing watercourses in project area and best management practices are available for drainage works HFWR, OR&T: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. Nav: No overlap in time and space between the Project activity or component and the Valued Component. Trans: Siding built "off-line", siding would not interact with existing road network or rail line during construction n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	Worker Accommodation Construction and Operations - Component Level Interactions	n/a	n/a	n/a	2	n/a	n/a	2	2	n/a	n/a	n/a	2	2	n/a	2	2	2	n/a	n/a	n/a	2	n/a = interactions are more appropriately described at the Project level above or physical work/activity level below.
Worker Accommodation	Supply and transportation of goods and services for camp	0	0	2	n/a	n/a	n/a	n/a	1	0	0	0	n/a	n/a	0	0	n/a	n/a	n/a	2	0	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). V&EC: No overlap with the use of existing roads and rail that are used for similar purposes. For, OG&E, M&A, Nav, VAR, HR: No overlap in time and space between the Project activity or component and the Valued Component. Ag: Traffic Management Plan (including access restrictions where required) will mitigate effects on Land and Resource Use Valued Components. n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	In-community Accommodation build 40-100 new housing units	0	0	0	n/a	n/a	n/a	n/a	0	0	0	0	n/a	n/a	0	0	n/a	n/a	2	2	0	n/a	F&FH, V&EC, WR, Ag, For, M&A, OG&E, Nav, VAR, HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	Temporary Accommodation - Northern Regional Site (Halfway-Farrell) site preparation; installation of pre-fabricated units; camp operation; electrical supply; waste management and treatment facilities.	1	2	2	n/a	n/a	n/a	n/a	2	1	1	1	n/a	n/a	0	n/a	n/a	n/a	n/a	2	2	n/a	F&FH: Assume limited interaction with Valued Component as facilities will be distanced from watercourses and discharges will comply with provincial and municipal permitting requirements. OG&E, M&A: Tenures required to construct and operate regional accommodation will be part of Project's overall tenuring process and related mitigation. Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	Temporary Accommodation - Southern Regional Site (Jackfish Lake Rd) site preparation; installation of pre-fabricated units; camp operation; electrical supply; waste management and treatment facilities.	1	2	2	n/a	n/a	n/a	n/a	2	1	1	1	n/a	n/a	0	n/a	n/a	n/a	n/a	2	2	n/a	F&FH: Assume limited interaction with Valued Component as facilities will be distanced from watercourses and discharges will comply with provincial and municipal permitting requirements. For, OG&E, M&A: Tenures required to construct and operate regional accommodation will be part of Project's overall tenuring process and related mitigation. Nav: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	Temporary Accommodation - Dam Site installation of pre-fabricated units in the north and south bank camps; operation of both camps.	0	0	2	n/a	n/a	n/a	n/a	n/a	0	0	0	n/a	n/a	0	n/a	n/a	n/a	n/a	2	0	n/a	F&FH: Assumed not to take place in fish habitat (i.e. watercourse, waterbody, riparian vegetation). V&EC, For, OG&E, M&A: Site prep and clearing interaction has already occurred and been accounted for. Nav, HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level
Worker Accommodation	RV Parks	0	0	0	n/a	n/a	n/a	n/a	n/a	0	0	0	n/a	n/a	0	0	n/a	n/a	n/a	2	0	n/a	F&FH, V&EC, WR, For, OG&E, M&A, Nav, VAR, HR: No overlap in time and space between the Project activity or component and the Valued Component. n/a = interactions are more appropriately described at the Project or project component level

