BC Hydro
Power smart

Site C Clean Energy Project

Annual Progress Report No. 7
(Combined with Quarterly Progress Report No. 28)

January 2022 to December 2022

PUBLIC

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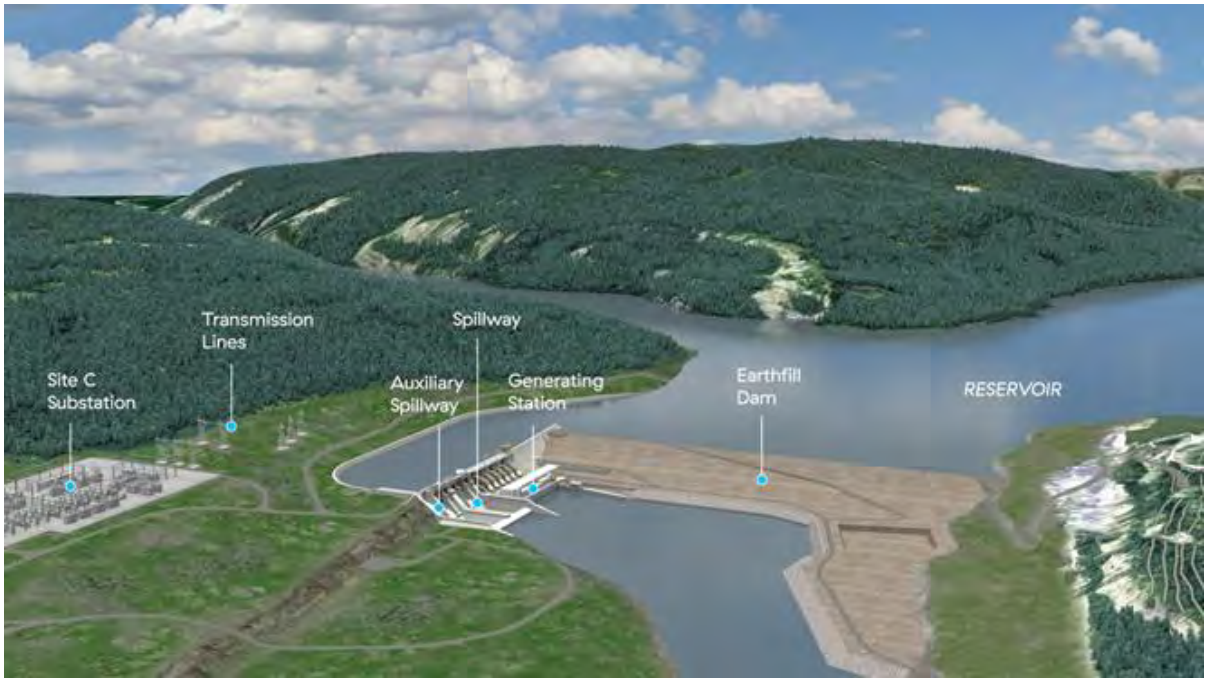
1 Executive Summary

1.1 Overview and General Project Status

Site C will be the third dam and hydroelectric generating station on the Peace River in northeastern British Columbia (**B.C.**). Once complete, Site C will provide 1,100 megawatts of capacity, and produce about 5,100 gigawatt hours of energy per year – enough to power the equivalent of 450,000 homes per year in B.C.



Construction on Site C began on July 27, 2015.

Annual Progress Report No. 7 covers the period January 1 to December 31, 2022 (reporting period) and includes quarterly results for the quarter ended December 31, 2022 (Quarterly Progress Report No. 28).

This eighth year of construction at Site C was the busiest year to date on the Project. Work advanced in all areas – with some parts of the Project now completed or nearing completion. By the end of 2022, the Project was approximately

72% complete. The Project continues to be managed within the approved budget of $16 billion and remains on track to meet the approved Project in-service date of 2025.

Despite the challenges of continuing construction through a third year of the COVID-19 pandemic, the Project remains on track to have all six generating units in service by fall 2025. Provided there are no unforeseen delays and work continues to advance as scheduled, reservoir filling could occur as early as fall 2023. However, a significant amount of work and potential schedule risks remain to fill the reservoir and complete the Project.

The Project advanced construction throughout the year and achieved a number of significant milestones. At the dam site, the earthfill dam was 88% complete as of December 31, 2022. Construction also moved forward in the generating station and spillways area, with concrete placements at 87% complete as of December 31, 2022. The balance of plant works, which build out the remaining elements inside the powerhouse (such as electrical, mechanical, and heating and ventilation), began in 2022. Foundation enhancements to address geotechnical issues on the right bank also progressed, with 74 of 96 piles fully installed and significant advancements made on the approach channel.

Important milestones also occurred away from the dam site. These milestones included the completion and energization of the second (and final) 75-kilometre-long 500 kilovolt transmission line between Site C and the Peace Canyon generating station, and the opening of four new highway sections along Highway 29 (Cache Creek, Farrell Creek, Dry Creek, and Lynx Creek). Further, the Farrell Creek East section was opened to traffic in August 2021 and completed in August 2022. Construction also began on the boat launches at Halfway River East and Lynx Creek, and important community amenities were upgraded and moved to a new location in preparation for the new reservoir. The shoreline protection berm was completed at Hudson’s Hope to protect the shore from erosion after reservoir filling.

During berm construction, BC Hydro installed a new raw water intake that could be used by the District of Hudson's Hope to draw water from the reservoir in the future. In fall 2022, the District initiated a three-phase plan to transition back to a surface water source for their water treatment system.

In 2022, the Site C Project saw its highest employment numbers since construction began. In October 2022, employment on the Project peaked at 5,554 workers. Of these, 67% were from B.C., including 20% from the Peace Region Regional District. Thirteen per cent of the construction and non-construction workforce were women, and 9% were Indigenous workers.

BC Hydro has also continued to uphold its commitments to the environment, Indigenous groups and local communities throughout the reporting period.

In terms of environmental commitments, BC Hydro reached important milestones in mitigating the effects of the Project on fish and wildlife. The temporary fish passage facility finished its second full year of operation, allowing 3,770 fish (compared to 2,465 last year) from 15 different species to migrate upstream of the dam. The Project also fulfilled important habitat compensation requirements, rebuilding aging water control infrastructure at three historically constructed wetlands, thus preserving 175 hectares of wetlands that would otherwise have been lost. Additionally, BC Hydro completed 13 more artificial eagle platforms and built fish spawning shoals at Maurice Creek.

Throughout the year, BC Hydro continued to engage, build relationships and find solutions together on topics that are most important to the Indigenous communities affected by Site C. Six environmental forum meetings including three field tours occurred with Indigenous communities to share information about environmental programs and projects. To prepare Nations for reservoir filling, BC Hydro hosted numerous community open houses in First Nations communities, boat tours of the Peace River, Highway 29 and dam site tours, and provided quarterly updates on the timing and process of reservoir filling. Noteworthy progress was also made on the

planning for a new Cultural Centre, which will showcase local Indigenous culture and history in the region, and store and display many of the artifacts uncovered during the construction of Site C. In 2022, participating Nations worked with a design team to complete the conceptual design, which was approved by a committee of chiefs and elders.

On the economic front, $96.9 million, through 69 contracts, were awarded to Indigenous-designated companies, bringing the total to $846 million since the beginning of the Project.

In 2022, BC Hydro distributed more than $66,000 to eight non-profit organizations in the Peace Region through the Generating Opportunities (**GO**) Fund. Through the BC Hydro Peace Agricultural Compensation Fund, 29 Peace Region agricultural projects received approximately $1.6 million in funding.

BC Hydro continues to actively manage risks on the Project, working closely with the Project Assurance Board, Peter Milburn (special advisor to the Government of British Columbia), Ernst & Young Canada, and the Technical Advisory Board.

The following sections contain additional information on the major challenges and successes of 2022, and the Project Status Dashboard as of December 31, 2022.

1.2 Contractor Labour Attraction and Retention

BC Hydro continued to monitor the risk that Project contractors will not be able to attract and retain sufficient skilled workers, including forepersons, lead hands, senior journeypersons and key management personnel.

Throughout the year, BC Hydro worked with unions and contractors to monitor the risk of attracting and retaining craft labour. As the 2022 construction season drew to a close, contractors reported that, despite it being more difficult to hire for certain skilled labour positions, they were still able to hire all the workers needed to complete their scopes of work. As noted, Site C saw its highest employment in October 2022 since the start of construction.

Going forward, the risk of contractors attracting and retaining labour is expected to decrease as key scopes of work near completion and the required number of workers decreases.

1.3 Inflationary Pressures

The rate of inflation in Canada hit a 40-year high in 2022 at 6.8%. For Site C, this had impacts in areas such as labour, fuel, materials yet to be procured, contract amendments and change orders, and forecasted higher interest during construction due to increased interest rates. Supply chain challenges have also resulted in impacts to the schedule. By the end of 2022, a large portion of the on-site construction scope was fixed within confirmed contracts, with the remaining items limited to BC Hydro-initiated change orders. However, even though contractors are contractually responsible for the cost pressures and supply chain issues for scopes of work within their contracts, risk remains that these issues can still result in cost implications and schedule delays for BC Hydro. There are sufficient allowances in the Project budget to accommodate the current inflationary pressures.

1.4 COVID-19 Update

COVID-19 remained manageable at site during 2022, with 1,035 cases reported throughout the year, including 105 cases during the third quarter from October 1 to December 31, 2022. On September 26, 2022, BC Hydro suspended its COVID-19 mandatory vaccination policy for employees and contractors, which included workers on the Site C Project.

BC Hydro continues to work with Northern Health to monitor the latest health developments in order to help prevent the spread of illness on the Project. The Project continues to require the vaccination status of anyone accessing site, as the health authority had previously requested this information from large industrial projects. Rapid testing continues to be used as requested by workers and to test symptomatic workers reporting to the clinic.

The Project team and onsite medical clinic continued to monitor both COVID-19 and other seasonal communicable diseases closely.

1.5 Indigenous Burials

BC Hydro is committed to mitigating impacts on burial sites in a culturally responsible manner and has been seeking information on potential burials that may be impacted by the Site C Project from First Nations since 2008.

The Site C Project is taking an Indigenous-led approach to managing burial sites within the Project area. Based on consultation and field investigations undertaken by First Nations and BC Hydro, four burial sites have been identified in the vicinity of Cache Creek/Bear Flats and Halfway River and are now registered under the *Heritage Conservation Act*. Over the last year, decisions were reached on the management approach for these sites, based on the direction of the majority of Nations that have chosen to participate in this work.

Two identified burial sites are outside of the inundation zone. These sites will be monitored for slope stability and erosion risks after the reservoir is filled. Monitoring plans are being developed in consultation with Indigenous Nations.

At Halfway River, archaeological studies are ongoing to confirm the presence of a potential burial within the inundation zone, identified through traditional knowledge of local Indigenous elders. These studies will conclude an extensive search effort conducted in collaboration with Indigenous Nations to locate the potential graves at this site.

One confirmed burial within the inundation zone will be relocated using conventional archaeological methods. This approach was supported by the majority of Indigenous Nations that have chosen to participate in burial management.

1.6 West Moberly Settlement

On June 24, 2022, a full and final settlement of the West Moberly First Nations' treaty infringement claims related to the Site C Project was reached between West Moberly First Nations, the Government of British Columbia, BC Hydro, and the Government of Canada.

This settlement is an important step in advancing BC Hydro's relationship with West Moberly First Nations. The agreements provide BC Hydro with a foundation to move forward in a way that fosters a mutually beneficial relationship and a meaningful path to reconciliation.

1.7 Hudson's Hope Water Treatment Facility

Through its commitment to the District of Hudson's Hope to mitigate the effects of the new reservoir and dam, BC Hydro provided funding to the District of Hudson's Hope to replace its water intake and pump house. The District of Hudson's Hope decided to change from a surface water source to a well water system. Under the 2019 Water Agreement with the District of Hudson's Hope, BC Hydro provided close to $5 million towards the new water treatment plant while the District of Hudson's Hope, as the owner, retained responsibility for operations, performance, and warranty costs. The new water treatment plant came online in 2021. Since it became operational, the facility has not been working as expected, and the District of Hudson's Hope has incurred higher operating and maintenance costs as well as service interruptions. In fall 2022, the District of Hudson's Hope initiated a three-phase plan to return to a surface water source. BC Hydro has offered additional financial assistance to support the implementation of the District of Hudson's Hope's plan.

1.8 Old Fort Community Concerns

In July 2022, a group of Old Fort residents used their vehicles to block access to the Gate B entrance at Site C to voice their concerns regarding issues such as dust, air

quality, noise and traffic. In late July 2022, an in-person meeting took place between Old Fort residents and BC Hydro to follow up on these concerns. Further, BC Hydro's Chief Executive Officer met with a regional district elected official on September 23, 2022 and with two representatives of the community on October 26, 2022. As a result of the concerns raised by residents, BC Hydro undertook several actions, including:

- Removing vegetation near Gate B on Old Fort Road to improve line of sight;
- Sweeping gravel from in front of Gate B;
- Frequently applying water and dust suppression to gravel roads within the Project site, with a focus on those closest to Old Fort;
- Providing temporary relocation to residents;
- Reimbursement for the exterior washing of homes; and
- Implementing a procedure to allow residents of Old Fort and first responder vehicles to detour through Site C if there is a temporary closure of Old Fort Road.

As of December 31, 2022, about 30 residents had utilized the temporary respite for some period of time; and about 15 homeowners had utilized the exterior house cleaning that had been offered.

1.9 Upholding Commitments to the Environment, Indigenous Groups and Local Communities

During the reporting period, BC Hydro continued to uphold its commitments to the environment, Indigenous groups and local communities.

BC Hydro continued to secure the appropriate permits, authorizations and leaves to commence construction required for the Project. As of December 31, 2022, 601 (93%) of the estimated 648 provincial and federal permits have been received.

Work advanced in the areas of environmental monitoring and assessment, as well as in the Project's fish, wildlife, habitat, vegetation management and heritage programs. Of significant note, the Project saw a successful second year of operations for the temporary fish passage facility. The facility provides safe fish passage from the diversion tunnel outlet channel to upstream release locations during construction of the Project. During the facility's operating season (April 1 to October 31, 2022), 3,770 fish from 15 different species passed through the facility (compared to 2,465 fish from 11 different species in 2021).

The Site C Project also fulfilled important habitat compensation requirements this year. Partnering with a contractor, BC Hydro rebuilt aging water control infrastructure at three historically constructed wetlands, thus preserving 175 hectares of wetlands that would otherwise have been lost. Another 100 hectares of wetlands are expected to be restored over the next four years.

BC Hydro also completed 13 more artificial eagle platforms, bringing the total number of platforms built to 42, thus completing this habitat requirement. Spawning shoals were built for rainbow trout and mountain whitefish at Maurice Creek near the Peace Canyon Dam.

BC Hydro worked with the B.C. Environmental Assessment Office to address various potentially acid-generating rock exposures across the Project. BC Hydro is seeking an amendment to the Site C Construction Environmental Management Plan to clarify that the current approaches to managing potentially acid-generating rock provide adequate environmental protection. Additionally, BC Hydro is developing final treatment plans for potentially acid-generating sites that will not be addressed through dam construction or the creation of the reservoir.

Throughout the year, BC Hydro continued to engage, build relationships and find solutions together on topics that are most important to the First Nations communities affected by Site C. BC Hydro collaborated with Indigenous Groups on a wide variety of environmentally related topics through the Environmental Forums, drawing on

Indigenous traditional knowledge to inform environmental approaches. In 2022, six Environmental Forum meetings were held, with participation and involvement from a majority of Indigenous Groups affected by Site C. The focus throughout 2022 was on reservoir filling-related topics and regulatory requirements. Field tours in May, July, and October 2022 focused on the dam site, Highway 29, wetland compensation and several Indigenous Traditional Use Fund project sites. Looking toward 2023, reservoir filling-related activities will remain a focus.

Work also continued on the Cultural Centre project, which will showcase local Indigenous culture and history in the region, and store and display artifacts uncovered during the construction of Site C. It is being developed in full collaboration with Indigenous Nations, and the design and content are Indigenous led. In 2022, the participating Nations worked with a design team to complete the conceptual design. That design was approved by a committee of chiefs and elders. In total, seven Cultural Centre project meetings were held in 2022. Eleven of 13 Indigenous Nations impacted by Site C participated in the meetings. The project is preparing to enter the detailed design phase in late spring/early summer 2023.

Accommodation offers were originally extended to 10 First Nations communities. Eight agreements have now been fully executed and are in various stages of implementation. Efforts are ongoing to conclude impact benefits agreements with the remaining First Nation communities with whom BC Hydro has not yet been able to achieve negotiated agreements.

BC Hydro also worked to advance economic opportunities for Indigenous groups through capacity-building and procurement opportunities. In 2022, $96.9 million in Site C procurement opportunities were awarded to Indigenous-designated companies; overall, approximately $846 million has been awarded to Indigenous-designated companies, including pre-construction contracts, since the beginning of the Project.

In December 2022, 312 Indigenous people were working on the Site C Project, compared to 320 in December 2021. The Project high for the year was reached in October 2022, with 413 Indigenous workers.

Community engagement activities are an integral part of the Project and these activities also advanced throughout the year.

Throughout 2022, BC Hydro worked closely with local governments, First Nations and health authority stakeholders to ensure worker and public safety while managing the COVID-19 pandemic at Site C. Through regular communications, these stakeholders were kept informed about pandemic-related updates on the Project.

In 2022, BC Hydro distributed more than $66,000 to eight non-profit organizations in the Peace Region as part of the Generate Opportunities (GO) Fund. As of December 2022, approximately $638,000 had been distributed to 73 projects since the fund was launched in 2016.

In 2022, 29 Peace Region agricultural projects received approximately $1.6 million in funding through the BC Hydro Peace Agricultural Compensation Fund. As of December 31, 2022, nearly $2.7 million had been distributed to 83 projects, including two projects that received funding through a one-time $1 million Agricultural Impact and Opportunities Initiative funding stream.

1.10 Construction Progress

As the busiest construction year since the Project began, considerable progress was made and milestones reached in 2022, both on and off the dam site.

BC Hydro remains on track to achieve the approved in-service date of December 2025.

BC Hydro and its contractors have agreed to contractual schedules that could result in reservoir filling in fall 2023 and first power earlier than planned without

compromising safety, quality and commitments to the environment and First Nations. However, meeting this time frame remains subject to risks.

In late November 2022, the entire earthfill dam reached elevation 445 metres above sea level (final elevation will be 470 metres). As of December 31, 2022, the earthfill dam was 88% complete with 8.1 million cubic metres of dam material being placed in 2022.

The excavation of the approach channel, which is where the water approaches the intakes for the penstocks and the spillways, was substantially completed in 2022. The work to complete waterproofing the bottom of the channel, as part of the right bank foundation enhancements, began in April of 2022 and will continue through 2023. The waterproofing scope includes construction of reinforced concrete, installation of polyvinyl chloride (**PVC**) liners, and grouting of the underlying bedrock. Due to the wide variety of activities and interfaces between contractors and interdependent nature of the design, the work requires diligent coordination and close management of interfaces. Several of the construction activities are weather sensitive, reducing their ability to be completed during the winter months or periods of rainy weather. The work is being completed by the contractors' large skilled labour force which is working on multiple active work fronts at the same time.

A new aggregate supply, Area E, located southwest of the dam site, began supplying the Project with dam material. Hauling began in July 2022 after the access road was upgraded.

Several new areas of fish habitat were built this year, part of a broader program to create 60 hectares of shoreline habitat in preparation for reservoir filling. The habitat areas provide nutrient-rich, sheltered environments to support a variety of fish and vegetation. These habitats include P6 Island (an island in the Peace River across from the community of Old Fort) and spawning shoals at Maurice Creek near the Peace Canyon Dam.

The construction of the penstocks, spillways and approach channel continued to advance and remain on-track for completion in 2023. Risk remains with the supply and installation of the upper penstock couplers and BC Hydro is working closely with contractors to complete this work. The radial spillway gates were fabricated in 2022, delivered to site, and are in the process of being installed. At the powerhouse itself, concrete placements are 90% complete. Inside the powerhouse, two of the six units have been handed over to the turbine manufacturer to begin assembly of the generating unit. Construction of the three 500-kilovolt transmission lines connecting the Site C powerhouse to the Site C substation progressed in 2022.

The contract for the balance of plant electrical components was awarded in September 2021, with the remaining balance of plant components for the powerhouse construction (e.g., heating, ventilation) awarded in 2022. The balance of plant contractors have mobilized to site and work is currently underway. Due to the outage of the powerhouse bridge cranes in August 2022, installation of cable trays and cables by one of the balance of plant contractors has been impacted and additional workers are required to recover the contractual schedule.

Away from the dam site, construction also progressed. The second 75-kilometre-long transmission line between Site C and the Peace Canyon generating station was completed and energized in March 2022, ahead of schedule. As of December 31, 2022, Highway 29 is 90% complete, with five of the six segments being opened to traffic. The final bridge at Halfway River is expected to open in February 2023. The decommissioning and removal of the old sections of highway began in fall 2022. The Hudson’s Hope berm, which protects the shoreline from erosion from the new reservoir, was completed in November 2022. Clearing for the entire reservoir area and waste wood removal will be completed in 2023.

Construction of the boat launches at Halfway River East and Lynx Creek also began in 2022.

1.11 Preparing for Reservoir Filling

One of the remaining milestones prior to the completion of the Site C Project is filling the reservoir. Prior to the COVID-19 pandemic, Site C was on schedule for reservoir filling to take place in 2023, and for all six units in the generating station to be in service by the end of 2024. However, primarily as a result of the COVID-19 pandemic, the approved in-service date for the Project was moved out one year.

The timeline for reservoir filling will depend on obtaining more than 20 regulatory approvals, the operational requirements of the Peace River system, environmental regulation compliance, weather constraints and construction progress. One of the key remaining construction activities required for reservoir filling is the conversion and closure of the tunnels currently diverting the Peace River around the Project site. Tunnel conversion is subject to environmental, operational, and weather-related constraints, and therefore must be completed between July and September of any given year.

Depending on the status of these constraints and the ability to convert the tunnel, reservoir filling could follow one of three scenarios:

1. Scenario One: tunnel conversion begins in mid-2023 and completes in fall 2023, followed by immediate reservoir filling.
2. Scenario Two: tunnel conversion begins in mid-2023 but does not complete in time for reservoir filling to begin in fall 2023. Reservoir filling would occur in fall 2024.
3. Scenario Three (approved schedule): tunnel conversion begins in 2024 and completes in the fall of 2024, followed immediately by reservoir filling.

The first scenario would result in first power earlier than planned. The latter two scenarios would result in first power in December 2024 and would meet the Project in-service date of December 2025.

1.12 Project Status Dashboard for 2022

BC Hydro, with oversight from the Project Assurance Board, is focused on completing the Site C Project within the approved budget of $16 billion and a 2025 in-service date, or earlier, without compromising on safety, scope or quality. To report on Project status, BC Hydro uses a dashboard system, where key Site C Project areas are classified as red (at risk), amber (moderate issues) or green (on target).

The Project Status Dashboard, as of December 31, 2022, is provided in Table 1. There were no changes to the performance indicators as shown in Quarterly Progress Report No 27 (as of September 30, 2022).

Table 1 Project Status Dashboard

● On Target ● Moderate Issues ● At Risk

Status as of:		December 31, 2022
Overall Project Health	●	As of December 31, 2022, the overall Project health remained "amber." The Project is approximately 72% complete; and work continues to advance; however, there are still potential risks remaining. BC Hydro continues to review, assess, mitigate, manage and monitor potential risks to the Project.
Safety	●	Safety remained "amber" as of December 31, 2022. This reporting period ends the busiest year to date on the Project, with multiple active work fronts and contractors across both the dam site and off dam site. Refer to section 3.1.8 for a summary of safety and regulatory performance metrics. In anticipation of 2022 being a peak construction year, the Project undertook six site specific safety reviews looking at current and active construction safety concerns. The six reviews were on regulatory compliance, construction roads, construction power, wildfires, structure fires, and risk tolerance culture. These reviews were completed by independent experts; the findings were reviewed internally and appropriate measures have been actioned to close the gaps identified. BC Hydro continued to conduct contractor safety verifications and field based safe work observations as a priority during 2022. COVID-19 remained manageable at site during 2022. Employers and workers continued to use the rapid testing program for symptomatic workers. BC Hydro suspended its COVID-19 mandatory vaccination policy on September 26, 2022, for employees and contractors, which included workers on the Site C Project. This reflected the changing nature of the pandemic, diminished risk factors, and the success of the vaccination policy.
Scope	●	Scope status remained "amber" as of December 31, 2022. Provisions are included in the Project plans for potential scope adjustments for site conditions and interfaces. As construction progresses, there remains a risk of design changes due to unknown field conditions.

Status as of:		December 31, 2022
Schedule	🟡	Schedule status remained "amber" as of December 31, 2022. The Project is currently on schedule to achieve the approved 2025 in-service date and is approximately 72% complete, however, a significant amount of work and potential schedule risks remain. BC Hydro and Site C contractors have agreed to revised schedules, which recover certain schedule delays due to COVID-19 and provide three potential schedule scenarios for tunnel conversion and reservoir fill including the potential for an earlier in-service date. All potential schedule scenarios include risks and uncertainty; the scenario that potentially results in an earlier in-service date has a higher level of uncertainty and risk. Significant construction activities remain, which if not completed on time, could adversely affect the construction schedule.
Cost	🟡	Cost status remained "amber" as of December 31, 2022. Potential cost risks remain, as detailed in this report. As of December 31, 2022, the life-to-date actual costs are $10.5 billion, which results in an estimated $5.5 billion of remaining costs.
Quality	🟢	The quality rating for the Project remained "green" as of December 31, 2022, indicating that the work generally conforms to the requirements of the drawings and specifications. When a quality issue is identified during the course of construction, BC Hydro and its contractors work to rectify the issue to ensure that the quality of the completed work achieves the quality specifications. The Technical Advisory Board and independent international dam experts continued to review and confirm that the Project designs are appropriate, safe and serviceable over the long operating life of Site C.
Regulatory, Permits and Tenures	🟢	The regulatory, permits and tenures indicator status remained "green" as of December 31, 2022. Overall, BC Hydro continues to be issued permits and authorizations in accordance with construction timelines. As of December 31, 2022, 601 of the estimated 648 provincial and federal permits required for the Project have been received and are actively being managed.

Status as of:		December 31, 2022
Environment	🟡	The Project environment status remained "amber" as of December 31, 2022, due to the unresolved April 2022 potentially acid-generating rock Environmental Assessment Office order and a warning letter received on September 26, 2022. BC Hydro worked with the B.C. Environmental Assessment Office to address the order and letter. BC Hydro is seeking an amendment to the Site C Construction Environmental Management Plan to clarify that the current approaches to managing potentially acid-generating rock provide adequate environmental protection. Additionally, BC Hydro is developing final treatment plans for potentially acid-generating sites that will not be addressed through dam construction or the creation of the reservoir.
Procurement	🟡	The procurement indicator status remained "amber" as of December 31, 2022, due to the remaining right bank foundation enhancements procurements that still need to be negotiated. The majority of the commercial agreements are scheduled to be in place by summer 2023.
Indigenous Relations	🟡	The Indigenous Relations indicator status remained "amber" as of December 31, 2022. BC Hydro has a mandate from the Government of British Columbia to reach project or impact benefits agreements with the 10 Indigenous groups that are most impacted by Site C. Eight of 10 agreements are fully executed and in implementation. BC Hydro has a standing offer to negotiate with the remaining two First Nations that have not signed agreements related to the Site C Project. BC Hydro also maintains a working relationship with those Nations through ongoing consultation and engagement. Consultation is ongoing with impacted First Nations regarding options and site-specific plans for managing identified burial and cultural sites impacted by reservoir filling, in particular in the Halfway River and Cache Creek / Bear Flats areas.
Stakeholder Engagement	🟢	The stakeholder engagement indicator status remained "green" as of December 31, 2022. BC Hydro continues to work with the communities, regional district and stakeholder groups on the implementation of various community agreements. Significant engagement occurred with residents and elected officials from the community of Old Fort and the District of Hudson's Hope throughout the latter half of 2022.

1.13 Significant Project Updates in 2022

Significant Project updates that occurred between January 1 and December 31, 2022, include the following:

January 2022

- January 10: BC Hydro's COVID-19 proof of vaccination policy came into effect for all BC Hydro employees and all other individuals working at a BC Hydro facility, including those working on the Project. Refer to section 3.1.1 for more information.
- The procurements for two of the remaining four balance of plant contracts (architectural; and permanent upstream fishway and other out structures) were awarded. Refer to section 4.1.5 for more information.

March 2022

- The second (and final) 500 kilovolt transmission lines was completed and energized ahead of schedule, completing the work to connect the new Site C substation to the BC Hydro transmission grid. Refer to section 4.1.7 for more information.
- The procurements for the final two balance of plant contracts (heating, ventilation and air conditioning; and fire detection and protection) were awarded. Refer to section 4.1.5 for more information.

April 2022

- The temporary fish passage facility started operating for the 2022 season, as scheduled. Refer to section 11.5 for more information.
- Construction of the Lynx Creek boat launch started. Refer to section 4.1.8 for more information.

May 2022

- Construction of fish habitat on the Peace River Island near Old Fort (P6 Island) started. This fish habitat work was completed in fall 2022. Refer to section 4.1.2 for more information.

June 2022

- June 24: West Moberly First Nations, the Government of British Columbia, BC Hydro and the Government of Canada reached a full and final settlement of West Moberly First Nations' treaty infringement claims related to the Site C Project.
- June 29: The final segment for the sixth and final penstock was installed. Refer to section 4.1.3 for more information.
- Construction of fish spawning shoals started at Maurice Creek, near the Peace Canyon Dam. Refer to section 4.1.9 for more information.
- Construction of the Halfway River East boat launch started. Refer to section 4.1.8 for more information.

July 2022

- Hauling from Area E started, providing a new supply of dam material to the dam site. Refer to section 4.1.1 for more information.
- The largest group of boaters to date used the BC Hydro portage program, which began on the Peace River in 2020. Nine people, six kayaks and one canoe were transported.

August 2022

- The Farrell Creek East segment of Highway 29 was completed. Refer to section 4.1.8 for more information.

September 2022

- September 2: Construction and welding of the final penstock segment for the sixth and final penstock was completed. Refer to section 4.1.3 for more information.
- September 3: The Dry Creek bridge on Highway 29 was completed and opened to traffic. Refer to section 4.1.8 for more information.
- September 26: BC Hydro suspended the COVID-19 vaccination policy. Refer to section 3.1.1 for more information.

October 2022

- The Farrell Creek bridge on Highway 29 was completed and opened to traffic. Refer to section 4.1.8 for more information.
- The Project reached peak employment with 5,554 workers. Refer to section 12.3 for more information.
- Clearing began in Watson Slough. Refer to section 4.1.9 for more information.

November 2022

- The earthfill dam reached an elevation of 445 metres above sea level (out of a total of about 470 metres). Refer to section 4.1.1 for more information.
- For the three transmission lines connecting the Site C substation to the Site C powerhouse, the assembly, installation and conductor stringing of eight of 11 towers was completed in November 2022. The remaining three towers and final conductor stringing will be completed in 2023. Refer to section 4.1.7 for more information.
- The Lynx Creek bridge on Highway 29 was completed and opened to traffic. Refer to section 4.1.8 for more information.
- The shoreline protection berm at Hudson's Hope was completed. Refer to section 4.1.8 for more information.

December 2022

- The Highway 29 bridge at Cache Creek was completed and opened to traffic. Refer to section 4.1.8 for more information.

Refer to Appendix A for site construction photos for the year and refer to Appendix B for a list of work completed since the Project commenced in 2015.

2 Site C Project Objectives

The strategy being employed on the Site C Project related to balancing the Project objectives of scope, quality, schedule, and cost is shown in Figure 1, and is as follows:

- First, safely implement the Project scope, consistent with the quality specifications; in other words, do not compromise on the safety of structures and the workforce, scope or quality. BC Hydro is building Site C for the long-term, and it does not make sense to undermine the quality of the asset;
- Second, mitigate schedule risk and build schedule float. The rationale for this is due to the significant impacts associated with missing the reservoir filling schedule milestone. Reservoir filling can only occur in the fall of any given year. Failure to commence filling in the fall of a particular year would result in reservoir filling being delayed to the fall of the following year. As a result, the Project team has completed several activities (such as resequencing work while managing interface issues across work fronts) to increase schedule float to further reduce the risk of missing reservoir filling when unplanned events occur that delay the schedule; and
- Third, complete the Project at the lowest reasonable cost.

BC Hydro's goal is to achieve all of these objectives. However, as unplanned events occur, they put pressure on meeting all of the Project objectives, and the Project team has utilized the above strategy to balance how best to meet these objectives.

Figure 1 Site C Project Objective

3 Safety and Security

BC Hydro's Site C Project continued to closely manage COVID-19 and other communicable diseases in 2022, with case counts remaining low and managed during the year. BC Hydro worked closely with WorkSafeBC on several safety initiatives at site including an Ergonomic and Human Factors Exhibition, discussions on confined space and aluminum welding, and follow-up on WorkSafeBC orders related to first aid procedures, oversight of welding in the powerhouse, and dust management.

In anticipation of 2022 being a peak construction year, BC Hydro undertook a risk-based safety review of the Project covering higher risk hazards, regulatory compliance and worker's safety risk awareness / tolerance. The Project team also starting detailed safety planning for tunnel conversion and reservoir filling.

3.1.1 Management of COVID-19 Cases in 2022

Site C saw an increase in COVID-19 cases after the 2021/2022 seasonal holiday, with more than 500 cases in January 2022 alone. By the end of March 2022, over 1,080 cases had been reported, with an estimated 1,000 further cases prevented

from spreading at site by the Site C rapid testing program implemented in late December 2021. BC Hydro's mandatory proof of vaccination policy came into effect on January 10, 2022, with over 99% of Project workers verified as vaccinated. The onsite medical clinic continued the Project vaccination program that began in 2021, with almost 5,000 vaccines (including boosters) administered by April 2022. During this early 2022 surge, no individuals experienced serious symptoms, and no one was hospitalized.

By late February 2022, cases were declining and case rates stabilized. Employers and workers continued to use rapid tests for symptomatic workers, and rapid tests were available to all Project workers for personal use. In late March / early April 2022, the Project began relaxing mask mandates and restoring most facilities and services in the accommodation lodge. Northern Health reviewed and accepted BC Hydro's Communicable Disease Management Plan in early April 2022.

BC Hydro suspended its mandatory COVID-19 vaccination policy in September 2022, and COVID-19 booster shots and seasonal flu vaccinations were made available to workers through the onsite medical clinic. Consistent with the rest of the province, the Project did see an increase in COVID-19 and influenza cases during fall 2022. However, the caseload remained steady and was effectively managed by the worker accommodation contractor and the medical clinic. There were no clusters or outbreaks. Further, unlike other industrial projects in the region, the Project did not experience an increase in gastrointestinal cases (e.g., norovirus). Since fall 2022, cases of all infectious diseases at site have remained low and managed.

3.1.2 Ergonomic and Human Factors Exhibition

In response to the ongoing high rate of musculoskeletal and repetitive strain injuries across the construction industry, BC Hydro hosted a Site C Ergonomics and Human Factors Safety Exhibition in mid-September 2022. There were presentations from a construction equipment supplier on usability features for common construction

power tools, from WorkSafeBC and BC Hydro on the design of ergonomics programs, and from BC Hydro on the safety-by-design features built into the Site C facility.

On the last day of this exhibition, WorkSafeBC conducted a Human Factors Incident Investigation training course, which was attended by representatives from BC Hydro, and our major Site C contractors. Attendees included representatives from safety, construction management, and Joint Health and Safety Committees. The course received positive reviews and focused on more complex situational and design root cause investigations rather than just on worker behaviour.

3.1.3 WorkSafeBC Update

In early July 2022, BC Hydro received two WorkSafeBC Inspection Reports, with three orders on dust management at site, first aid procedures, and coordination of welding activities in the powerhouse. WorkSafeBC also suggested BC Hydro submit a due diligence response in regard to coordination of work in the powerhouse, which BC Hydro did. In late October 2022, WorkSafeBC accepted BC Hydro's Notice of Compliance for dust management. As of the end of this reporting period, WorkSafeBC had not yet responded to BC Hydro's Notice of Compliance submissions on the other two orders, nor the due diligence response.

In early November 2022, a regional WorkSafeBC officer led a discussion on confined space at site. Confined space is one of the six designated high-risk areas in provincial safety regulations. The discussion covered the definition of confined spaces, effective hazard identification, confined space entry procedures, and rescue requirements. The meeting was well attended by representatives from BC Hydro and Site C contractors. In late November 2022, a similar regulatory discussion was held on aluminum welding, a unique hazard for upcoming work in the powerhouse.

3.1.4 Tunnel Conversion Hazard ID and BowTie Analysis

In late September 2022, BC Hydro and the tunnel conversion contractor spent three-and-a-half days in a detailed Hazard Identification and BowTie Analysis workshop. This workshop was facilitated by an external expert with more than 30 years of experience in strategic and operational process safety. The approach and outcomes from this workshop were reviewed with, and well received by, local WorkSafeBC officers.

3.1.5 2022 Safety Reviews

In anticipation of 2022 being a peak construction year, BC Hydro engaged third-party experts to undertake a risk-based safety review of the Project. There were three major components to the safety review: (a) assessment of higher risk hazards on the Project including shared construction roads, construction power, structure fire safety, and a wildfire risk assessment; (b) a point-in-time assessment of WorkSafeBC regulatory compliance; and (c) a review of workers' risk awareness / risk tolerance.

3.1.6 Summary of Safety and Regulatory Performance Metrics

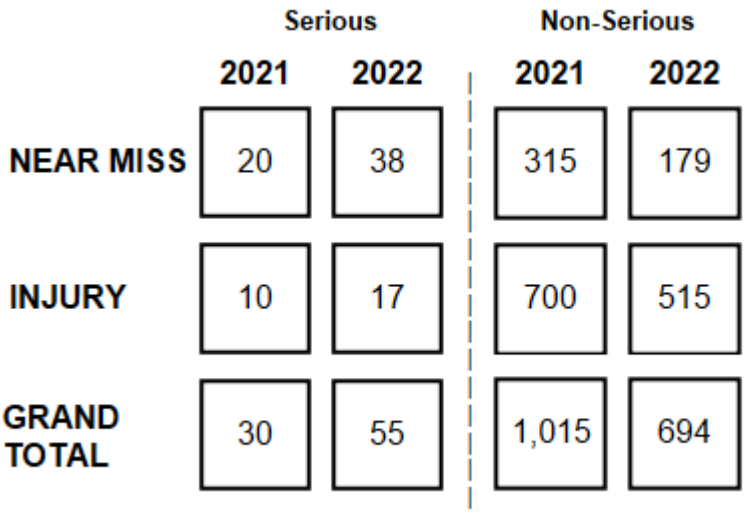
From July 2015 through December 2022, all work fronts across the Project had completed almost 44.4 million work hours, with no fatalities and one permanent partial disabling injury in 2017.

As shown in Figure 2, the Project reported 55 serious safety incidents in 2022 consisting of 38 near misses with the potential for a serious injury, 14 serious injuries incidents with a moderate injury requiring medical treatment, and three serious incidents with lost time injuries. The number of serious safety incidents increased from 2021 for several reasons, including new work scopes in the powerhouse and off-dam site; and increased work activities with higher safety risks such as welding and gouging (hot work), new confined space areas, and increased congestion and overlapping work areas in the powerhouse. The Project continued to see safety incidents related to slips, trips and falls, working at heights, dropped objects from

height, 'line of fire' release of energy, and working around heavy equipment. Refer to Appendix C for a listing of all serious safety incidents.

In total for 2022, there were 694 non-serious safety incidents, which included 515 minor and moderate injuries that required first aid or medical attention treatment (e.g., stitches or prescriptions) and 179 near misses. A near miss is an incident that could have resulted in an injury but did not because of effective hazard barriers or the person was out of harm's way/missed. BC Hydro considers near miss reporting as indicative of an effective and transparent safety culture and strongly encourages all Site C contractors and employees to report near misses. The number of non-serious safety incidents decreased in 2022 compared to 2021.

Figure 2 Serious and Non-Serious Incidents



To encourage a safety learning culture across all work fronts and contractors, the Project held 110 safety incident reviews for serious and significant incidents in 2022. Senior management from BC Hydro and contractors participated in the safety incident reviews of 16 incidents, and site-based construction management and safety team leadership participated in the other 94 safety incident reviews. Primary incident root cause trends in 2022 were congested work areas, inadequate use of

personal protective equipment, poor / limited supervision, incomplete safe work procedures, workers failing to follow safe work procedures, lack of work coordination, and managing in-field work scope changes.

Table 2 reflects safety performance results for the Project, including all contractors and all sub-projects.

Table 2 Summary of Site C Safety Metrics

	Reported for Quarter October 1, 2021 to December 31, 2021[1]	Reported for Quarter October 1, 2022 to December 31, 2022[1]	Reported for 2021 (January to December)[1]	Reported for 2022 (January to December)[1]	Reported Since Inception (July 27, 2015 to December 31, 2022)[1]
Fatality[2]	0	0	0	0	0
Permanently Disabling Injury[3]	0	0	0	0	1
Serious Incidents[4]	7	14	30	56	164
Lost Time Injuries[5]	0	0	5	5	43
All-Injury Incidents[6] (Lost Time Injuries[5] and Medical Attention Requiring Treatment[7])	9	12	56	57	318

3.1.7 Safety Verifications

In 2022, the Site C safety team completed a total of 839 planned safety verifications for the Project (both on and off the dam site) – an average of 70 per month. This compares with the 782 verifications completed in 2021, indicating an increase of work activities in field safety. By year end, the closure rate for nonconformances identified in 2022 verifications was 99%; a timely result due in part to collaboration

1 Numbers are subject to change due to timing of when data is retrieved and when injury is categorized.
2 Excludes any non-occupational incidents.
3 A permanently disabling injury is one in which someone suffers a probable permanent disability.
4 Serious incidents are any injury or near miss with a potential for a fatality or serious injury.
5 Lost time injuries are those where a worker (employee or contractor) misses their next shift (or any subsequent shift) due to a work-related injury / illness. If a worker only misses work on the day of the injury, it is not considered a lost time injury.
6 All-injury incidents includes all work-related medical attention requiring treatment, lost time injuries, and fatalities.
7 Medical attention requiring treatment is where a medical practitioner has rendered services beyond the level defined as “diagnostic or first aid” and the worker (employee or contractor) was not absent from work after the day of the injury. Services beyond diagnostic / first aid include (but are not limited to) receiving stitches, a prescription, or any treatment plan such as physiotherapy or chiropractic.

between the BC Hydro construction and safety teams. All nonconformances are tracked to completion. In 2022, 20% (168) of the verifications were green/clean sheets, with no nonconformances found. Further, 85% of all the safety verifications conducted in 2022 identified good safety practices even though there were some nonconformances. Planned safety verifications are a current leading indicator for safety on the Project.

In 2022, the Project team implemented field-based safe work observations as another safety leading indicator. Construction management, resident engineering, quality assurance, project controls, and environment teams completed a total of 1,180 safe work observations by December 2022. Most of these safe work observations included at least one in-field safety intervention.

3.1.8 Safety Performance Frequency Metrics

To assess safety performance over time, the Project considers key safety metrics in the context of the total amount of hours worked (frequency), which corrects for the volume of work. Table 3 summarizes these key safety metrics by quarter, based on a rolling 12-month average.

Table 3 Summary of Safety Performance Frequency Metrics 2021 and 2022

	January – December 2021 (Rolling 12-Month Average)				January – December 2022 (Rolling 12-Month Average)			
	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec	Q1 Jan-Mar	Q2 Apr-Jun	Q3 Jul-Sep	Q4 Oct-Dec
Serious Incident Frequency	0.50	0.49	0.59	0.67	0.70	0.82	1.07	1.17
Lost Time Injury Frequency	0.12	0.09	0.13	0.11	0.11	0.09	0.11	0.11
All Injury Frequency	1.16	1.21	1.41	1.24	1.27	1.17	1.18	1.22

The serious incident frequency (adjusted for work hours) for October to December 2022 quarterly reporting period was 1.17, compared to 0.67 for the same period in 2021. This is due primarily to the increase in higher risk work activities

in 2022, changing conditions on the Project, and a longer construction season due to the unusually warm fall and early winter weather in 2022. Lost time injury frequency remains consistently low, reflecting contractors' strong return to work programs. The all-injury frequency is comparable between 2022 and 2021, reflecting a drop in non-serious incidents, which offsets the increase in serious incidents.

3.1.9 Regulatory Inspections and Orders

WorkSafeBC, under the authority of the *Worker's Compensation Act*, is the primary regulator with jurisdiction over safety for the Project. WorkSafeBC oversees worker safety (employee and contractor) for the Project, both on and off the dam site. The Ministry of Energy, Mines and Low Carbon Innovation is the regulatory authority for worker safety on any work fronts subject to the *Mines Act*, specifically West Pine Quarry, Portage Mountain Quarry, and Wuthrich Quarry.

For the reporting period from October to December 2022, WorkSafeBC issued three regulatory inspection reports and no regulatory orders. The inspection reports were primarily a discussion on confined space entry, right bank foundation enhancements work processes and policies, safe work procedures, and fit for duty expectations. There were no regulatory inspections from the Ministry of Energy, Mines and Low Carbon Innovation during this reporting period.

As shown in Table 4, in 2022, the Project was issued 34 regulatory inspection reports with 34 orders. Of these, WorkSafeBC accounted for 32 inspection reports with 30 orders, and the Ministry of Energy, Mines and Low Carbon Innovation for two inspection reports with four orders. The main themes in the regulatory inspection reports were:

- Exposure control plans;
- Safe work procedures in handling hazardous materials;
- Safe access programs;

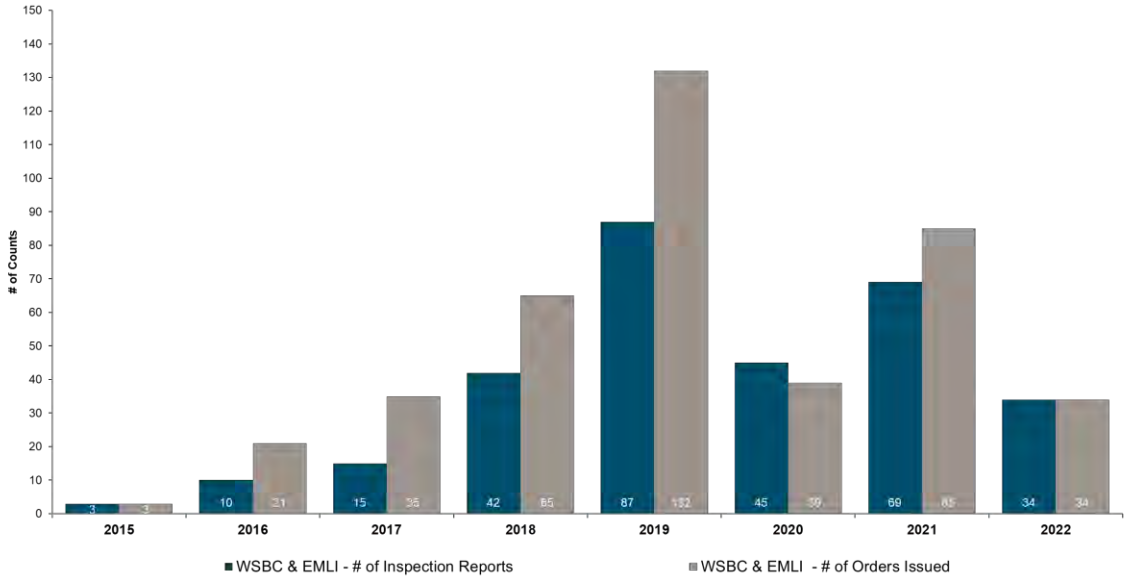
- Fall protection programs;
- Incident management; and
- Safe work procedures in operation of equipment.

Table 4 Regulatory Inspections in 2021 and 2022

	Reported for Quarter October 1, 2021 to December 31, 2021	Reported for Quarter October 1, 2022 to December 31, 2022	Reported for 2021 (January 1, 2021 to December 31, 2021)	**Reported for 2022 (January 1, 2022 to December 31, 2022)[8]**	**Reported Since Inception (July 27, 2015 to December 31, 2022)[8]**
Regulatory Inspections	13	3	69	34	305
Regulatory Orders	7	0	85	34	414

Figure 3 shows the number of regulatory inspections and orders issued for the Project since 2015. Due in part to COVID-19 work restrictions, there has been a drop in regulatory activity since 2020.

Figure 3 Number of Regulatory Inspections and Orders 2015 to 2022



[8] Numbers are subject to change due to timing of when data is retrieved and when injury is categorized.

Refer to Appendix C, Safety Regulatory Inspections and Orders, for a summarized version of the listing of regulatory inspection reports.

4 Construction and Engineering Major Accomplishments, Challenges, and Work Completed

4.1 Construction

This eighth year of construction at Site C was the busiest year to date on the Project as work continued to advance in all areas – with some parts of the Project being completed or nearing completion. BC Hydro and Site C contractors continued and are still continuing to schedule work and explore strategies to complete work delayed by the COVID-19 pandemic as efficiently as possible.

4.1.1 Main Civil Works

Main civil works construction activities that took place on the approach channel, right bank, earthfill dam, conveyor belt system and Area E in 2022 are described in the following sections.

Approach Channel

In 2022, the main civil works contractor substantially completed the approach channel excavations with approximately 1.5 million cubic metres excavated. The remaining 100,000 cubic metres of material will remain as part of the access for other contractors and will be removed once the scope is complete in 2023. On April 1, 2022, construction commenced on the approach channel lining as part of the right bank foundation enhancements, which is further described in section 4.1.4.

Right Bank

Right Bank Drainage Tunnel

In 2022, the main civil works contractor substantially completed the works inside the right bank drainage tunnel, including concrete slab placement. The drilling of drain

holes continued from the roller-compacted concrete drainage gallery to the right bank drainage tunnel and was 99% complete at the end of December 2022.

The remaining scopes of work include the drilling of additional draining holes, the installation of additional rock support at select locations, the installation of additional instrumentation and the installation of final ventilation and lighting systems to keep the tunnel from becoming a confined space.

Dam and Core Roller-Compacted Concrete Buttress

Capping of the roller-compacted concrete buttress with conventional concrete was completed in February 2022.

Earthfill Dam

Earthfill dam placements continued during the reporting period, with approximately 7.8 million cubic metres placed to the end of 2022.

Dam fill placements for the 2022 season started in late March 2022, and in late August 2022, a significant milestone was achieved when the Project safely reached elevation 433.2 metres above sea level on the earthfill dam core, bringing the dam core up to the same height as the upstream cofferdam. At the end of September 2022, the dam core reached elevation 445 metres. In November 2022, the dam shell also reached a target elevation of 445 metres, bringing the entire earthfill dam up to 445 metres. Once complete, the dam will reach an elevation of about 470 metres above sea level.

Approximately 8.1 million cubic metres of dam fill material (core, filter, and shell) was placed in 2022, achieving the dam placement milestones for the season. The cumulative progress of material placed for the earthfill dam to December 31, 2022, is approximately 88% of the total planned material placements, with 1.4 million cubic metres remaining in 2023.

Conveyor Belt System

The conveyor system that transports till material being used in the construction of the dam core commenced seasonal operations in March 2022 and operated without significant issues for the entire 2022 dam construction season. Till material transported by the conveyor was sufficient to maintain material placements on the dam core, as well as providing a stockpile of till material to allow for maintenance outages of the conveyor.

Area E

The upgrading of the haul road from Area E to the dam site was completed in June 2022 and hauling of aggregate from Area E to the dam site commenced in July 2022. A total of 455,986 cubic metres of material was hauled in 2022.

4.1.2 Site Operations and Infrastructure

The site operations and infrastructure section of this report includes updates on the construction and operations of the worker accommodation and debris management for the reporting period.

Worker Accommodation

Through continuous collaboration and guidance from Northern Health, BC Hydro and the camp operator suspended almost all COVID-19 measures in the camp during 2022. Enhanced cleaning continues at a reduced frequency and mandatory hand washing in the dining room remains. The recreation program was fully resumed, including programs and activities for entertainment, fitness, and nutrition.

BC Hydro continues to work closely with the Northern Health Authority to monitor and report on workers who visit a Northern Health facility or on-site medical clinic for occupational and non-occupational treatments.

Debris Management

There are three debris retention structures on the Moberly and Peace Rivers that provide coverage for all headpond elevations to capture and prevent debris from entering the diversion tunnels. Debris management is seasonal with activities from approximately April to November each year and no activities over the winter season (approximately December to March).

The debris management contractor conducted debris removal operations over the 2022 operating season as well as completing ongoing minor repairs and maintenance on both the Peace and Moberly River debris booms. Both the Moberly and Peace River booms were successfully taken out of service in November 2022 for the winter season.

Fish Habitat on Peace River Island near Old Fort (P6 Island)

Equipment mobilized across the back channel to an island in the Peace River near Old Fort (referred to on the Project as P6 Island) on May 29, 2022, to begin excavation of the fish habitat. Over the course of the following few months, 377,000 cubic metres of aggregate were excavated for use as fill on the earthfill dam. This fish habitat work was completed in fall 2022. Reclamation of the island began in early December 2022 and was completed in January 2023. The bridge across the back channel was removed in January 2023. Final clean-up of the bridge abutments will be completed in spring 2023 during a low flow period.

Fish Habitat on Peace River Island west of Old Fort (P5 Island)

Subsequent to the mobilization of equipment to begin the excavation of new fish habitat on an island west of Old Fort (referred to on the Project as P5 Island), British Columbia experienced a heat wave in summer 2022. The heat wave resulted in higher power demand and flow rates on the Peace River (from increased electricity generation at upstream facilities), making continued work in the river unsafe. Work was suspended on June 30, 2022, and is scheduled to resume in April 2023 pending low flow rates conducive to working in the river.

Howe Pit

Excavation to expose a potential aggregate source was conducted from March to December 2022. Excess materials were used to construct a laydown area, to cap an exposed potentially acid-generating rock face, and to install care of water features to mitigate environmental risks for the site.

4.1.3 Generating Station and Spillways

During the reporting period, construction progress took place on the generating station and spillways civil works, cranes and hydromechanical equipment as described in the following sections.

Generating Station and Spillways Civil Works

The generating station and spillways civil works contract includes the delivery of civil works associated with the powerhouse, intakes, penstocks and spillways.

By concrete volume, the generating station and spillways civil works sub-project was approximately 87% complete as of December 31, 2022.

Powerhouse

During 2022, most of the work on the first stage concrete (the concrete foundation of the powerhouse) was completed. The second stage concrete (concrete that embeds the turbines and forms the floors) is advancing at a pace to match the turbines and generators contractor's schedule. At the end of December 2022, the contractor had completed concrete to the main floor of the powerhouse for units 1, 2 and 3. The powerhouse concrete is 90% complete.

The east and west powerhouse gantry cranes were taken out of service in early August 2022 due to issues with the crane wheels. The existing wheels were adjusted to enable limited crane service. Additionally, a temporary construction crane was put into service in September 2022, allowing construction to continue.

As of mid-October 2022, both cranes were back to full service.

Intakes Headworks

As of December 31, 2022, concrete placements in intakes 1, 2, 3, 5 and 6 were essentially complete. Overall, intake concrete placements were 97% complete, with intake 4 forecast to be complete by April 1, 2023.

Penstocks

As of December 31, 2022, penstock steel for all penstocks was complete, with the exception of the flexible couplings. The flexible couplings (penstock sections that allow the penstocks to expand and contract) are being redesigned due to technical issues. Installation of alternate flexible couplings will begin in July 2023.

The coatings for the insides of penstocks 2, 3 and 6 are complete.

Spillways

The contractor has completed more than 83% of the spillways concrete. The spillways headworks mass concrete reached its maximum elevation in August 2022. Work on the concrete structures to enclose the mechanical systems has started.

Cranes

The assembly of the headworks gantry crane has started and is scheduled to be complete by March 2023. The construction of the tailrace gantry crane will begin in February 2023.

Hydromechanical Equipment

Gates guides for intakes 1, 2, 3 and 6 are complete, and the physical gates are installed in intakes 1 and 2. The unit 5 gate equipment is 23% complete and the unit 4 gate equipment installation is scheduled to start in March 2023.

Work continues on spillway operating gates 1, 2 and 3, which are forecast to be complete by June 2023, and are 22%, 53% and 15% complete, respectively.

Work continues on low level operating gates 1, 2 and 3, which are forecast to be complete by July 2023, and are 23%, 23% and 33% complete, respectively. Work on low level operating gates 4, 5 and 6 started in February 2023.

4.1.4 Right Bank Foundation Enhancements

During 2022, the ongoing reviews by the Technical Advisory Board and the two independent, world-leading dam experts continued to confirm that the ongoing design of the foundation enhancements, located on the Project's right bank, meet the highest safety standards and international best practices.

In 2022, detailed engineering design of the right bank foundation enhancements which address the geotechnical issues in the bedrock foundation on the Project's right bank, focused on enhancements to the watertightness of the approach channel and enhancements to the riprap and concrete erosion protection located downstream of the powerhouse and spillway piles. Construction of the right bank foundation enhancements commenced in 2021 and work completed in 2022 included:

- The installation of the remaining 21 of 48 large diameter concrete-filled vertical steel piles located within the spillway;
- The installation of 26 of the 48 large diameter concrete-filled vertical steel piles located downstream of the powerhouse, including two of the four concrete pile caps; and
- The completion of approximately 35% of the approach channel bedrock surface excavations, cleaning and horizontal lining, construction of 20% of the reinforced concrete associated with the concrete grouting plinth and central channel berm foundation, and 35% of the approach channel's grout curtain.

Construction of the powerhouse piles is on track to be completed in spring 2023 with completion of the enhancements to the erosion protection downstream of the piles

and enhancements to the approach channel on track to be completed in summer and fall 2023, respectively.

4.1.5 Balance of Plant

The balance of plant procurement was split into six separate contracts and the schedule for the balance of plant work is being aligned with the turbines and generators schedule. The six contracts include: (1) mechanical; (2) electrical; (3) architectural; (4) permanent upstream fishway and other out structures (5) heating, ventilation, and air conditioning (**HVAC**); and (6) fire detection and protection.

The balance of plant mechanical and electrical contracts were awarded in 2021 and the remaining four contracts were awarded during 2022. Four of the contracts (electrical, architectural, HVAC, and fire detection and protection) are all being delivered by the electrical contractor. All contractors have mobilized to site and work has commenced on the electrical and mechanical scopes in the powerhouse.

The mechanical and electrical work made progress inside the powerhouse in the areas made available to the contractors, but has been limited to partial sections of the upstream generator floor, the downstream generator floor, the operations building, the mechanical floor and the draft tube and dewatering levels in the powerhouse.

The mechanical contractor has made good progress constructing the powerhouse drainage and dewatering system.

The electrical contractor commenced installation of the electrical station service in the powerhouse, including the installation of approximately 450 kilometres of cable. In addition, the contractor has installed half of the sections of isolated phase bus that will connect the first two Site C generators to BC Hydro’s electrical system.

Architectural work in the operations building is progressing and the heating, ventilation and air conditioning work has begun.

The permanent upstream fishway and other out structures contractor has continued concrete placements at the fishway and is projecting to complete the balance of the concrete placements in 2023. The permanent upstream fishway is on schedule to be in service for spring 2024.

4.1.6 Turbines and Generators

The scope of work for turbines and generators includes the complete design, supply, installation, testing and commissioning of six turbines, generators, governors and exciters.

The manufacturing and installation for the turbines and generators are on schedule; however, there have been some delays to the work due to the COVID-19 pandemic, which has used up some of the float in the schedule. During the reporting period, BC Hydro and the contractor agreed on a recovery schedule that has all six units in service in accordance with the contractual schedule. During the reporting period, the manufacturing of the equipment was substantially completed, and the assembly of the non-embedded turbine and generator parts started on two of the units.

Five of six turbine runners arrived at site in 2022. The sixth turbine runner was successfully delivered to site in January 2023.

4.1.7 Transmission

Construction of the second (of two) 75-kilometre-long, 500 kilovolt transmission line connecting the Site C substation to the Peace Canyon generating station was completed and energized on March 3, 2022, ahead of schedule.

Construction of the eight foundations for the three one-kilometre-long, 500 kilovolt transmission lines connecting the Site C substation to the Site C powerhouse were completed by the contractor in 2022. For these three transmission lines, the assembly, installation and conductor stringing of eight of 11 towers was completed in November 2022. The remaining three towers and final conductor stringing will be completed in 2023.

4.1.8 Highway 29 and Hudson's Hope Shoreline Protection Berm

The highways sub-project includes the construction of 32 kilometres of highway and five new bridges along Highway 29; construction of a shoreline protection berm within the District of Hudson's Hope to protect against bank erosion due to reservoir wind waves and water table rise; the development and operation of the Portage Mountain Quarry, which supplied riprap and filter materials for highway and berm construction; and the construction of recreational facilities at Halfway River, Lynx Creek, and Hudson's Hope.

For the Highway 29 realignment, work remains on track to support reservoir filling. The following reflects progress to December 31, 2022:

Cache Creek

Construction of the Cache Creek segment includes 8.6 kilometres of highway and a 617-metre-long bridge.

Construction continued through 2022 on the Cache Creek segment, including completion of the bridge foundation and the bridge steel girders by March 2022, completion of the cast in place concrete bridge deck by September 2022 and opening of the bridge to traffic on December 1, 2022.

Construction of the highway grade also continued including completion of the east and west tie ins in November 2022. Asphalt paving of the top lift was completed on all but two kilometres of the alignment, which was opened to traffic on December 1, 2022.

Halfway River

The Halfway River segment includes the realignment of 3.7 kilometres of highway and the construction of a new one-kilometre-long bridge crossing the Halfway River, approximately 500 metres from the previous bridge.

After the winter shutdown, in spring 2022, construction resumed on the Halfway River segment with all contract work being completed.

Due to a technical issue with the bridge expansion joints, the new Halfway River bridge has remained closed to traffic until the expansion joints can be replaced. In the interim, steel cover plates will be installed over the joints to allow traffic to use the new bridge, which is expected to open in February 2023.

Farrell Creek East

The Farrell Creek East segment includes the realignment of 8.4 kilometres of highway. Geotechnical studies in 2019 concluded that 5.7 kilometres of this segment could be removed from the scope of work and monitored following the creation of the Site C reservoir, reducing the length of the Farrell Creek East realignment work to 2.7 kilometres.

The construction of the Farrell Creek East segment was completed in August 2022 with the completion of drainage work and final paving.

Farrell Creek

The Farrell Creek segment includes the realignment of 1.9 kilometres of highway, including the construction of a new 411-metre-long bridge.

At the end of March 2022, the contractor had completed 100% of the concrete bridge and bridge abutment foundations, and the bridge steel girder installations were completed in April 2022. In September 2022, the contractor completed the cast-in-place concrete bridge deck and the cast-in-place concrete parapets.

Construction of the highway alignment and the east and west bridge approaches were completed and paved in October 2022 and the segment opened to traffic on October 27, 2022.

Dry Creek

The Dry Creek segment includes the realignment of 1.4 kilometres of highway, including the construction of a new 192-metre-long bridge.

Construction of the highway alignment began in May 2022 and was completed in August 2022. Construction of the bridge was completed in July 2022. Asphalt paving of the alignment was completed in August 2022 and the segment opened to traffic on September 3, 2022.

Lynx Creek

The Lynx Creek segment includes the realignment of 9.1 kilometres of highway and the construction of a 169-metre-long bridge.

The Lynx Creek contractor completed the cast-in-place concrete bridge deck in June 2022, and the bridge was substantially completed in September 2022.

In September 2022, the Lynx Creek work was delayed by approximately one week due to the Battleship Mountain wildfire and resulting evacuation order issued for the area around the District of Hudson's Hope from September 10 to 17, 2022.

Construction of the Lynx Creek boat launch was started in April 2022, with site preparation of the parking lot and boat ramp concrete completed in November 2022.

During the last quarter of 2022, work continued on the grading and drainage works, and the bottom lift of asphalt paving was completed in November 2022. The highway alignment opened to traffic on November 17, 2022.

Portage Mountain Quarry

Portage Mountain Quarry supplied riprap and berm filter materials for various segments of the Highway 29 realignment and construction of the shoreline protection berm in the District of Hudson's Hope.

All production of riprap for Highway 29 and the Hudson's Hope berm was completed and focus is now on the design and implementation of quarry reclamation, which is anticipated to occur in 2023.

Hudson's Hope Shoreline Protection Berm

The Hudson's Hope shoreline protection scope of work includes a 2.6-kilometre-long shoreline protection berm along the Peace River that will protect the slopes adjacent to the town of Hudson's Hope from shoreline erosion due to impacts from the Site C reservoir.

During 2022, the contractor continued to place riprap, berm filter and berm fill to bring the elevation up to the design grade.

The slope above the berm experienced some small, localized sloughing, in several areas, which were assessed and stabilized by the contractor. The decommissioning of the Hudson's Hope water intake was completed.

As of the end of September 2022, the contractor had completed all riprap and aggregate placements on the berm, as well as vegetation stripping.

The installation of culverts and the berm running surface were started in August 2022 and were completed in October 2022.

As part of the shoreline protection work, BC Hydro installed a new raw water intake that could be used by the District of Hudson's Hope to draw water from the reservoir in the future. The installation of the raw water intake was completed in September 2022 by the shoreline protection contractor. In fall 2022, the District initiated a three-phase plan to transition back to a surface water system. Refer to sections 1.7 and 13.2 for related information on the District of Hudson's Hope well water system.

Construction of the berm was impacted by the Battleship Mountain wildfire and resulting evacuation order for the area around the District of Hudson's Hope from September 10 to 17, 2022. This delayed completion of the berm from October 2022

to November 2022. The berm was 100% complete and the contractor had demobilized by the end of November 2022.

Highway 29 Decommissioning

Highway decommissioning work was started in fall 2022 at Farrell Creek East, Dry Creek and Lynx Creek.

Halfway River East Boat Launch

The contract for the Halfway River East boat launch was awarded in June 2022. Construction of the Halfway River East boat launch was started in summer 2022, with archaeological stripping, site preparation and excavation and backfill for the access road completed.

The contractor demobilized for the season in December 2022, and work is expected to resume in spring 2023.

4.1.9 Reservoir

The following reflects progress to December 31, 2022:

Lower Reservoir, Moberly River Drainage and Eastern Reservoir including Cache Creek Drainage

Clearing activities, in the Moberly River drainage, north and south banks of the eastern reservoir and Cache Creek, are complete. A sweep of the reservoir area has identified outstanding wastewood piles in the Eastern Reservoir and Moberly Drainage that were added to the winter 2022 burning program and are expected to be burned in the first quarter of 2023.

Middle Reservoir, Halfway River Drainage and Western Reservoir

Clearing activities, including burning of waste wood, continued in early 2022. Works included continuing to clear two new contract areas in the Western Reservoir and removing trees that were outstanding from 2021 (e.g., wildlife buffers). By

March 31, 2022, clearing was substantially complete, though some helicopter waste wood piling, burning and road deactivation activities remained.

As planned, clearing activities ceased in early April 2022 and restarted in late August 2022. Some additional areas were identified during a sweep of the reservoir area and were added into existing contracts and were cleared in fall 2022.

In August 2022, a contract was awarded for the Watson Slough area. This is the final clearing package and is a direct award to a First Nations-designated business. Work began in October 2022 and is expected to be complete by March 2023.

In fall 2022, a work package to brush vegetation in the previously cleared areas between the Site C damsite and Cache Creek was developed and procured. The intention of this work is to reduce the amount of nesting bird habitat within the tunnel conversion headpond area to minimize the risk of flooding nests. This work is expected to start in January 2023 and be complete by May 2023.

Other Reservoir Work

The scope of other reservoir work includes infrastructure relocations as well as environmental offset works, which are required as part of reservoir filling.

BC Hydro's existing transmission line crossing of the Halfway River drainage needs to be relocated prior to reservoir filling. The construction of the foundations was complete in summer 2022 and the remaining work was substantially complete by November 2022.

In October 2022, a contract was awarded to a First Nations-designated business for the final fish habitat site situated at Wilder Creek. Construction is expected to start in March 2023.

The construction of one fish habitat site was ongoing throughout 2022. Work at Maurice Creek began in June 2022 and stopped in September 2022. This work is

scheduled to resume in January 2023 when low water flows suitable for construction are expected to occur on the Peace River.

4.2 Engineering

The Site C engineering team is responsible for defining the Project's design requirements, preparing the Project designs and contract specifications, and ensuring the safety and quality of the assets. The team consists of in-house design specialists from BC Hydro and a range of external consultants from engineering firms who are responsible for the various design components.

4.2.1 Main Civil Works

During 2022, the engineering team supported the main civil works contract in the following areas: dam core excavations; grouting and instrumentation; and dam fill placements of till and filters on the right, centre and left sections of the core trench and upstream and downstream sections of the dam shells.

Dam fill placements restarted in late March 2022, and as of the end of September 2022, the dam till core reached an elevation of 445 metres. Placements of granular shell material continued into November 2022 and in a portion of the upstream shell where the main civil works contractor is placing riprap has reached an elevation of 451 metres on the upstream shell and 445 metres on the downstream shell.

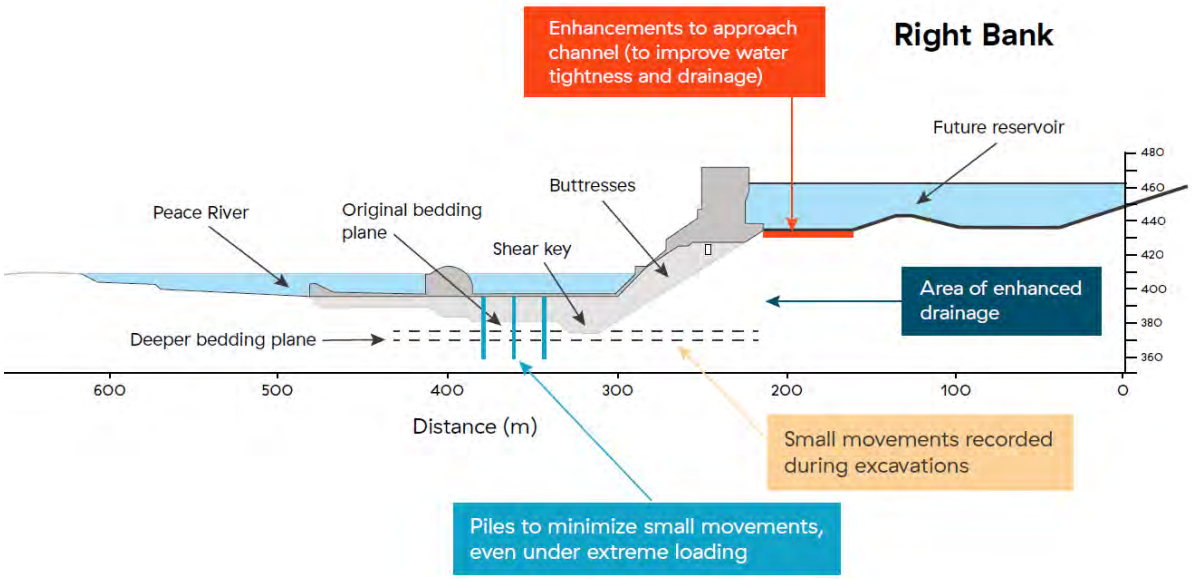
Through 2022, instrumentation monitoring for dam stability showed positive results and confirmed that the dam foundation is responding to dam fill placements as predicted.

Detailed geological mapping of the excavations in the approach channel continued through the 2022 construction season. This information is used to update the design parameters for the site geology and foundations.

4.2.2 Right Bank Foundation Enhancements

During 2020, BC Hydro identified a two-part solution to improve the stability of the right bank structures: structural enhancements located within the foundation of the spillways and powerhouse; and enhancement of the water-tightness of the approach channel. These enhancements are illustrated in Figure 4.

Figure 4 Right Bank Foundation Enhancements Measures



In 2022, value engineering activities continued in support of finalizing the design of the foundation enhancements measures associated with improving the water tightness of the approach channel. Work included finalizing the design of the enhancements to the channel's horizontal lining, drainage and geotechnical instrumentation. Design of the vertical lining located along the approach channel's roller-compacted concrete dam and core buttress is ongoing, alongside design of the enhancements to the riprap and concrete erosion protection located downstream of the powerhouse and spillway piles.

BC Hydro continued to engage the Project's Technical Advisory Board, two independent world-leading dam experts, and other subject matter experts to provide

oversight of value engineering activities associated with the design of the right bank foundation enhancements. Refer to section 4.2.7 for a summary of the Technical Advisory Board meetings and Appendix E for the reports issued by the Technical Advisory Board and independent dam experts in 2022.

4.2.3 Large Cranes, Hydromechanical and Turbines and Generators

Engineering support to construction, manufacturing, and vendor submittal reviews and integration was ongoing throughout 2022 for the large cranes, hydromechanical equipment and turbines and generators contracts.

4.2.4 Generating Station and Spillways, Balance of Plant and Equipment Supply

The design for the generating station and spillways civil works contract was complete by the end 2021. Activities during 2022 focused on supporting construction with the review of submittals for the powerhouse, intakes, penstocks, and spillways. Production of record drawings for the powerhouse continues.

The balance of plant procurement processes continued in the beginning of 2022 and contracts for the architectural; permanent upstream fishway and other out structures; heating, ventilation, and air conditioning; and fire detection and protection scopes of work were awarded in early 2022. The engineering team continued with the preparation and issuance of the issued-for-construction drawings for the three balance of plant contract packages: (1) mechanical; (2) electrical (includes architectural, heating, ventilation, and air conditioning, and fire detection and protection contracts); and (3) permanent upstream fishway and other out structures, and supported the construction activities under these packages including the review of the technical submittals and contractor design drawings. The balance of plant engineering team also continued to support the review of the technical submittals and design drawings, factory acceptance testing, and virtual and factory visits for the seven remaining equipment supply contracts, including: the generator terminal equipment; generator circuit breakers; generator step-up transformers; AC station

service; DC station service; 500 kV motor-operated disconnects; and diesel generators contracts. The delivery to site of the generator terminal equipment, generator circuit breakers, AC station service, DC station service, and 500 kV motor-operated disconnects also commenced.

Engineering design and fabrication continued to advance on the protection and control, communications and security systems; integrated testing is also progressing on fabricated equipment. The shipment to site of completed protection and control, communications, and security panels also commenced in 2022.

4.2.5 Transmission

During 2022, engineering support continued to be provided to complete construction of the second 75-kilometre-long transmission line, which was energized in March 2022. Design support was also provided for construction of the three, one-kilometre-long 500 kilovolt transmission lines that connect the Site C substation to the Site C powerhouse. This included foundation and structural issued-for-construction drawings as well as field support during construction.

4.2.6 Highway 29

During 2022, engineering support continued to be provided to the various highway segments and the Hudson’s Hope berm, as required to progress construction activities.

Engineering walk-throughs and sign-offs were completed at all highway segments to confirm completion, identify deficiencies and facilitate acceptance by the Ministry of Transportation and Infrastructure prior to opening the highway segments to traffic.

The review of record drawings packages for Farrell Creek East and Dry Creek was also started.

4.2.7 Technical Advisory Board

The Technical Advisory Board is a global panel of engineering and construction experts that report to the Project Assurance Board. Its mandate includes:

- Advising the BC Hydro President and Chief Executive Officer, Executive Vice President, Site C, and the Site C Project Assurance Board regarding the engineering and technical decisions related to Project design consistent with best practices and current international best practices;
- Provide technical review of key design milestones and ongoing external advice to supplement existing engineering and design and procurement expertise;
- Report out to the Project Assurance Board and management of key findings and recommendations; and
- Prepare and submit technical reports as required to management and the Board of Directors.

Technical Advisory Board meetings (in person and video conferences) occurred throughout 2022 and focused on the foundation enhancements, generating stations, spillways, completion of the roller-compacted concrete and the foundation and initial construction of the earthfill dam.

A report was issued from the Technical Advisory Board in April 2022 (Technical Advisory Board Report No. 25) on the overall status of the design and two reports

were issued by the independent dam experts in February and September 2022 (Independent Dam Expert Reports No. 5 and No. 6 respectively).

Refer to Appendix E for the reports from the Technical Advisory Board and independent dam experts from 2022.

4.3 Quality Management

BC Hydro continues to implement the Site C Quality Management Plan in order to achieve the quality objectives of the Project. During the reporting period, the Project team continued its activities to support the Project quality plan, including:

- Ongoing meetings with the quality management teams of key manufacturers and the site contractors to address quality issues as they arise;
- Performing quality audits of the site contractors;
- Participating in factory acceptance tests at manufacturers facilities;
- Continuing with monthly quality performance indicator assessments for each sub-project; and
- Implementing the recommendations from the BC Hydro Corporate Audit of the Site C Quality Management System.

When a quality issue is identified during the course of construction, BC Hydro and its contractors work to rectify the issue to ensure that the quality of the completed work achieves the quality specifications.

4.3.1 Quality Nonconformance Management

The identifying and reporting of nonconformances is an important part of quality management for Site C. Table 5 summarizes quality nonconformity instances during the reporting period.

Table 5 Quality Management Nonconformity Report (NCRs) Metrics Reporting Period – January 2022 to December 2022

Contract	Reported October 1, 2022 to December 31, 2022	Closed October 1, 2022 to December 31, 2022	Reported January 1, 2022 to December 31, 2022	Closed January 1, 2022 to December 31, 2022	Reported as of December 31, 2022	Closed as of December 31, 2022	Open as of December 31, 2022
Main Civil Works	21	16	66	111	2,031	2,011	20
Turbines and Generators[9]	7 (13+65)	55 (14+41)	245 (76+169)	219 (108+111)	902 (605+297)	773 (567+206)	129 (38+91)
Generating Station and Spillways Civil Works	84	81	461	460	1,418	1,348	70
Large Cranes	0	0	0	1	27	27	0
Hydromechanical Equipment	1	5	14	14	53	53	0

During the reporting period, there were no significant quality issues on the main civil works sub-project with the earthfill dam construction, and overall quality of the work continued to be good. As work has slowed down for winter 2022, BC Hydro continued to meet with the main civil works contractor to discuss broader topics related to quality, such as documentation and retention of testing personnel to ensure a successful season in 2023.

The quality of the constructed works in the generating station and spillways and intake structures continued to be good. The generating station and spillways contractor focussed on thermal control of concrete and significant improvements were noted in the latter half of 2022. BC Hydro continues to work with the contractor to maintain this focus as the site transitions into winter weather.

Following the failed hydrostatic pressure test of the unit 1 penstock flexible coupling in November 2021, the generating station and spillways contractor field-tested multiple design alternatives through June to October 2022. None of the design

[9] Total turbine and generator nonconformity Report = manufacturing + installation.

alternatives fully met BC Hydro's specification requirements and the contractor has engaged a sub-contractor to design and manufacture a replacement flexible coupling. Review of the drawings and calculations was completed by BC Hydro in December 2022 and manufacturing will begin in 2023.

In January 2023, the generating station and spillways civil works contractor informed BC Hydro that approximately 450 cubic metres of nonconforming concrete was placed in the powerhouse in mid-December 2022. The nonconformance was discovered through the Project's quality assurance program. A plan has been established to remove and replace the nonconforming concrete, and a solution has been implemented to ensure the issue does not occur again.

BC Hydro and the generating station and spillways contractor continue to meet weekly to discuss and resolve open nonconformity reports as well as discuss broader topics related to the contractor's quality performance.

The quality of the approach channel concreting and geotextile lining installation continued to be good, as did the installation and concreting of the steel pilings in the tailrace.

For the turbines and generators contract, the quality of the turbine embedded parts welding and generator assembly at site continued to be good. As the assembly of unit 1 advances, BC Hydro is focusing its quality assurance efforts on the generator stator core stacking and stator winding installation. Surveillance quality audits are being performed on a monthly basis to evaluate activities including stator bar installation, stator bar wedge tightness and end-turn brazing. The turbine spiral case flexible couplings remain a quality risk as the turbines and generators contractor design is similar to the penstock flexible coupling that the generating station and spillways contractor was unable to successfully implement. The performance of the turbines and generator contractor design remains unproven with the hydrostatic pressure test expected to occur in spring 2023. BC Hydro is evaluating alternatives if the pressure test is unsuccessful. BC Hydro continues to meet with the turbines and

generators contractor on a weekly basis to discuss upcoming inspections, quality issues and the overall quality assurance program.

For the electrical and mechanical balance of plant, the quality of the work has generally been good as the contractors have ramped up their work at the site. The factory acceptance testing of generator step-up transformers 1 to 6 was successfully completed at the contractor's facility and witnessed by BC Hydro representatives. Testing of the remaining four transformers (7 to 10) is scheduled for spring 2023.

4.4 Assets In-Service

Prior to the first generating unit coming into service, there are several construction activities that need to be substantially completed both on the dam site and off the dam site.

The first generating unit is scheduled to be in-service approximately one year before the sixth and final generating unit goes into service. Before the first generating unit is put into service, diversion tunnel conversion must be completed to allow for reservoir filling.

Before BC Hydro is able to complete the tunnel conversion and proceed with reservoir filling (in any of the three scenarios described in section 1.11), all regulatory requirements must be met and each of the following key construction activities must be sufficiently complete:

Dam Site

- The earthfill dam, approach channel, powerhouse (including intakes) and spillways (including gates);
- The first generating unit ready for commissioning;
- Right bank foundation enhancements;
- Modification of the right bank cofferdam in preparation for tunnel conversion; and

- Tunnel conversion preparations complete.

Off-Dam Site

- Clearing of the Site C reservoir;
- Realignment of Highway 29; and
- The Hudson's Hope shoreline protection berm.

Before all major pieces of equipment and assets are placed into service on the Project, inspecting, testing, and commissioning activities are completed to ensure that all components are fit for service and safe to transition to operations.

The pre-commissioning testing includes testing of individual pieces of equipment. The offline testing leads up to the signing of a Commissioning Notice to Energize, which states that the asset is safe to connect to the BC Hydro grid to commence the online testing. At the conclusion of the online testing, the signing of a Commissioning Notice to Operate formalizes the handover of the asset to BC Hydro Operations . The commissioning process undertaken for the earthfill dam and associated assets will form part of the comprehensive dam safety and reservoir filling plan.

Once assets are placed in service, BC Hydro Operations is responsible for the long-term operations and maintenance of the equipment and assets.

As of December 31, 2022 the following permanent assets have been placed into service on the Project:

- Site C substation;
- 500 kV gas-insulated switchgear expansion at the Peace Canyon substation; and
- Two new 500 kV transmission lines that connect Site C to the Peace Canyon generating station.

5 Project Schedule

5.1 Project In-Service Dates

BC Hydro remains on track to achieve the approved in-service date of December 2025.

BC Hydro and its contractors have agreed to contractual schedules that could result in reservoir filling in fall 2023 and first power earlier than planned without compromising safety, quality and commitments to the environment and First Nations. However, meeting this time frame remains subject to risks (refer to section 1.11 for further information on this scenario).

The Project achieved significant milestones in 2022. Table 6 lists the Project milestones completed in 2022.

Table 6 Site C Project Milestones Completed in 2022

Milestones Completed in 2022	Completion Date
Contract Award – Balance of Plant Architectural	January 2022
Contract Award – Balance of Plant Out Structures	January 2022
Unit 3 – Stay Ring and Spiral Case Assembled	February 2022
Transmission Line 5L6 In-Service Date	March 2022
Contract Award – Balance of Plant HVAC	March 2022
Contract Award – Balance of Plant Fire Protection	March 2022
Unit 4 – Stay Ring and Spiral Case Assembled	May 2022
Unit 1 – Spiral Case Embedded and Generator 2nd Stage Concrete Complete (Pit Free)	June 2022
Contract Award – Grading, Paving, & Bridge Decommissioning	June 2022
Roller-Compacted Concrete Buttress Complete	June 2022
Earthfill Dam Placement to Elevation 433 metres Complete	August 2022
Construction Finish – Highway & Bridge Halfway River	September 2022
Construction Finish – Farrell Creek	October 2022

Milestones Completed in 2022	Completion Date
Construction Finish – Hudson's Hope Berm	November 2022
Unit 5 – Stay Ring and Spiral Case Assembled	November 2022
Construction Finish – Lynx Creek	November 2022
Construction Finish – Cache Creek/Bear Flat (East)	December 2022

Table 7 shows the status of key Project milestones in relation to the approved in-service date of 2025.

Table 7 In-Service Dates

Description	In-Service Dates based on Approved Budget and Schedule (June 2021)[10]	Status
5L5 500 kV transmission line	October 2020	Complete
Site C substation	November 2020	Complete
5L6 500 kV transmission line	July 2023	Complete
Unit 1 (first power)	December 2024	On track
Unit 2	February 2025	On track
Unit 3	May 2025	On track
Unit 4	July 2025	On track
Unit 5	September 2025	On track
Unit 6	November 2025	On track

6 Project Governance, Costs and Financing, and Risk

6.1 Project Governance

During the reporting period, activities supporting Project governance included:

- The BC Hydro Board of Directors continued to meet on a monthly basis to provide governance, financial approvals of committed contracts over $50 million (and their related changes), and received updates on Project progress and key remaining risks;

[10] In-service dates based on Treasury Board's approval of the revised budget in June 2021.

- The Project Assurance Board – along with members of the BC Hydro Board of Directors, the Minister of Energy, Mines and Low Carbon Innovation, and the Premier – held a site visit in May 2022 to observe construction progress and meet Project team members. In October 2022 members of the BC Hydro Board of Directors and Project Assurance Board that were not able to attend the site visit in May 2022, along with members of Ernst & Young Canada, held a site visit to observe construction progress and meet Project team members;
- The Project Assurance Board continued to meet monthly to provide independent due diligence and oversight of the Site C Project to enable the Project to be fit for purpose and to be completed safely, on time and on budget;
- The commercial sub-committee of the Project Assurance Board continued to meet monthly to provide oversight on claims management, commercial strategy and contractual negotiations;
- The Technical Advisory Board continued to provide technical expertise and guidance to the Project Assurance Board and support to the Project team;
- Ernst & Young Canada continued to provide independent oversight for the Project, specifically with risk management, which included reviewing Project risks and the analysis for the schedule and costs, and evaluation of commercial management;
- Special advisor Peter Milburn continues to work with the Project to ensure that his recommendations, which have all been implemented, continue to be sustained; and
- In August 2022, Peter Milburn and an Ernst & Young Canada representative held a site visit to observe construction progress and meet Project team members.

6.1.1 Project Budget Summary

As of December 31, 2022, the life-to-date actual costs are $10.5 billion, which results in an estimated $5.5 billion of remaining costs. The Project remains on track

to be completed within the approved $16 billion budget. BC Hydro, with oversight from the Project Assurance Board, continues to actively manage the Project budget and potential Project risks for the remaining work.

6.2 Project Expenditure Summary

Table 8 includes a breakdown of the $16 billion Project budget, approved in June 2021, by key work area, life-to-date actual expenditures to December 31, 2022, and the remaining budget.

Table 8 Project Budget by Key Work Area ($ million)

Description	Project Budget[11]	Actuals, life-to-date (as of December 31, 2022)	Remaining Budget (as of December 31, 2022)
Dam, Power Facilities and Associated Structures and Transmission[12]	8,258	5,962	2,296
Offsite Works, Direct Construction Supervision and Site Services[13]	2,895	2,034	861
Total Direct Construction Cost	11,153	7,996	3,157
Indirect Costs[14]	2,082	1,341	741
Total Construction and Indirect Costs	13,235	9,337	3,898
Interest During Construction and Contingency	2,765	1,127	1,638
Total	16,000	10,464	5,536

6.3 Comparison of Plan to Actual Expenditures

Table 9 presents a comparison of the planned total expenditures for the Project by quarter compared to the total actual expenditures, from January 1 to December 31, 2022. The planned expenditures are based on the January 1, 2022 to March 31, 2022 plan amount from the 2021/22-2023/24 Service Plan and the

[11] The total Project budget was approved in June 2021 by Treasury Board.

[12] Key items included are river diversion infrastructure, earthfill dam and related works, spillways, powerhouse, generation equipment and transmission and substation work.

[13] Key items included are highway re-alignment and reservoir related work, direct construction supervision, and site services such as worker accommodation.

[14] Key items included are mitigation and compensation programs, development and regulatory costs, project management, engineering and other support services such as Project controls, contracts management, environmental, and Indigenous relations.

April 1, 2022 to December 31, 2022 plan amount from the 2022/23-2024/25 Service Plan. Both Service Plans are based on the new Project budget of $16 billion approved in June 2021. For the 12-month calendar period, the Project had expenditures of $2,105 million compared to the plan of $2,553 million, resulting in a variance of $448 million. Refer to variance explanation further below and in Appendix J.

Table 9 Variance to Plan for Calendar Reporting Period: January 2022 to December 2022 ($ million)

Description	Jan-Mar F2022 Q4	Apr-Jun F2023 Q1	Jul-Sep F2023 Q2	Oct-Dec F2023 Q3	Total for Reporting Period
Planned Expenditures	577	663	771	542	2,553
Actual Expenditures	450	534	554	567	2,105
Variance	127	129	217	(25)	448

Table 10 presents the Project budget approved in June 2021 and a comparison of the fiscal 2022 year to date (YTD) plan as of December 31, 2022, to the actual expenditures for the same period. The fiscal 2023 plan amount is based on the 2022/23 to 2024/25 Service Plan, which was published in February 2022. For the fiscal 2023 YTD period, the Project had expenditures of $1,655 million compared to the plan of $1,979 million, resulting in a variance of $324 million. Refer to variance explanation further below.

Table 10 2022/23 to 2024/25 Service Plan Fiscal 2023 YTD to December 2022 ($ million)

Description	Project Budget	2022/23 to 2024/25 Service Plan Fiscal 2023 YTD (December 2022)	Actuals, Fiscal 2023 YTD (December 2022)	Variance
Dam, Power Facilities and Associated Structures and Transmission	8,258	1,307	1,039	268
Offsite Works, Direct Construction Supervision and Site Services	2,895	288	261	27
Total Direct Construction Cost	11,153	1,595	1,300	2**95**

Description	Project Budget	2022/23 to 2024/25 Service Plan Fiscal 2023 YTD (December 2022)	Actuals, Fiscal 2023 YTD (December 2022)	Variance
Indirect Costs	2,082	162	126	36
Total Construction and Indirect Costs	13,235	1,757	1,426	331
Interest During Construction and Contingency	2,765	222	229	(7)
Total	16,000	1,979	1,655	324

For the variances shown in both Table 9 and Table 10, the key areas of lower-than-planned expenditures were in the right bank foundation enhancements work, generating station and spillways, highway bridge construction and property acquisitions. These variances are partially offset by higher-than-planned expenditures in the main civil works area. Further details of the variances between actual and plan are in Appendix J.

The Project team continues to forecast that the Project will be completed within the approved budget of $16 billion and the approved Project in-service date of 2025 (first power in December 2024).

6.4 Site C Project Financing

Most of BC Hydro's capital projects, including the Site C Project, are debt financed. The Site C Project costs are included as part of BC Hydro's overall borrowing and included in the Government of British Columbia's budget and fiscal plan. The debt and related interest costs are managed corporately by BC Hydro.

6.5 Material Project Risks and Opportunities

Material project risks and opportunities are identified and reviewed by BC Hydro management and the Project Assurance Board on an ongoing basis. Project risks are uncertain events that, if they occur, could result in a negative impact or loss to a project. Similarly, opportunities are uncertain events that, if they occur, could result in a positive impact, or benefit, to a project.

As the Project progresses through implementation phase, the Project risks and opportunities continue to evolve.

The criteria for selecting which risks and opportunities to include in internal and external reporting include both objective and subjective measures; these criteria have been utilized to select the risks and opportunity included in this report.[15]

Refer to Table 11 and Table 12 for a list of the material Project risks and opportunity as of December 31, 2022.

[15] The risks and opportunities included in Tables 11 and 12 are grouped thematically. The tables do not include risks and opportunities that are subject to confidentiality obligations or solicitor-client privilege, or that disclose commercially sensitive information relating to matters that are currently outstanding, including procurements and negotiations that are in progress at the time of this report, the disclosure of which would be harmful to BC Hydro's commercial interests.

Table 11 Material Project Risks

Risk Description	Impact and Response Plan Summary
Safety incident resulting in a fatality or disabling injury.	**Impact:** Serious worker injury or fatality; Project delays and associated costs. **Response**: Continue to monitor safety performance through BC Hydro's field-based Safe Work Observations program and ongoing safety management and analytics; support continuous improvements to the Safe Work Observations program to reinforce safety behaviours in the field; continue to share safety learnings; work with Project contractors on more collaborative safety incident investigations and track/follow-up on corrective actions; work with WorkSafeBC and contractors on safety equipment and process audits and programs focused on high hazard work activities at site; conduct joint safety planning workshops for upcoming work scopes; and continue to include safety in BC Hydro and contractor onboarding orientations to promote and encourage a strong safety culture across the Project.
Adits or right bank drainage tunnel may need additional structural support post reservoir filling	**Impact:** Requirement for additional structural support, resulting in additional costs. **Response**: Design additional support as required and implement measures to address as-found conditions.
Penstock flexible couplings do not perform as expected	**Impact:** Schedule delays and/or additional costs. **Response**: Ongoing modification and on-site testing of the couplers. Implement alternative design and supply as needed.
Tunnel conversion delayed due to constructability, condition, safety or operational issues.	**Impact:** Schedule delay, Project cost increases; damage to structure requiring repairs. **Response**: Diversion outlet stoplogs maintenance and surveillance program; joint BC Hydro and contractor constructability and planning reviews; monitor diversion tunnels performance and inspections; identify hazards, ensure mitigation work executed and work with BC Hydro Operations team to ensure upstream facilities ready to support the conversion works.
Right bank foundation enhancements at approach channel require additional work.	**Impact**: Impacts to existing contractors' scopes of work and schedule due to the right bank foundation enhancements, resulting in cost and schedule impacts. **Response:** Rely on the schedule change terms of existing contracts to proceed with any required change orders for the right bank foundation enhancements work scope, which will minimize the risks to existing contractors' scopes of work.
Project contractors unable to attract and retain key management personnel.	**Impact**: Exposure to schedule delays and additional costs, which could also be associated with meeting safety, environment, engineering, or quality requirements. **Response**: Monitor Project contractors' resource levels, turnover, and key role vacancies; continue to collaborate with Project contractors on the availability of key personnel.

Risk Description	Impact and Response Plan Summary
Project contractors cannot attract and retain sufficient skilled craft workers.	**Impact:** Contractors may not be able to adequately source, supply, attract, and retain sufficient Project labour including leaders in the hourly craft workforce such as forepersons, lead hands and senior journeypersons due to workforce demographics, increased competition for labour from other major projects, and the requirement for specialized workers. This may result in potential impacts to schedule, safety, productivity, and cost. **Response**: Contractors provide labour sourcing and supply plans, provide advance notice of foreign workers, and participate in local job fairs. BC Hydro encourages and facilitates capacity-building initiatives and monitors employee turnover rates and labour conditions on other projects.
Contractor workforce strike, work stoppages and lockouts impact site work.	**Impact**: Workforce disruptions causing schedule delays and increased costs. **Response**: BC Hydro to enforce contracts and potentially seek injunctions if required.
Indigenous Nations burial site management and community support take longer than planned	**Impact:** Schedule delays and/or cost impacts to recover schedule and obtain necessary regulatory approvals. **Plan:** Work closely with affected First Nations to develop and implement appropriate burial site management options. Ensure sufficient amounts of time are available in the Project schedule
District of Hudson's Hope may seek further funding for water supply system.	**Impact:** Additional costs for the water supply system. **Response:** Continue to meet obligations under the Water Agreement and work constructively with the District of Hudson's Hope. BC Hydro Installed a water conveyance system into the shoreline protection berm to enable access by the District of Hudson's Hope in the future.
Higher interest during construction on Project than planned due to increases in weighted average cost of debt rates.	**Impact**: Although BC Hydro hedges debt based on BC Hydro's approved hedging strategy, risk remains for fluctuations in short-term interest rates which are not hedged and due to the regulatory accounting for realized gains / losses on hedges during the current Revenue Requirement Application period. These could result in higher interest during construction for the Project than budgeted. **Response**: BC Hydro is implementing its approved hedging strategy and closely manages the annual expenditures and the schedule for first power in-service, which is when the majority of the interest during construction will cease on the Project.
Increasing regulatory requirements relating to management of potentially acid-generating rock.	**Impact**: Potential cost implications and schedule impacts. **Response**: Clarify any new regulatory requirements and/or non-compliances and ensure all potentially acid-generating rock locations have a suitable environmental prescription that mitigates the risk of acidic water.
Risk of contractor claims.	**Impact**: Increased construction management and contract management effort required to respond to and investigate claims; settlement of claims may result in increased costs. **Response**: Ensure sufficient commercial management resources in place, proactively resolve claims as received, and ensure commercial management procedures are in place and are being followed.

Risk Description	Impact and Response Plan Summary
Risk that reoccurrence of COVID-19 impacts continuation of construction activities at site or in Vancouver.	**Impact**: BC Hydro and contractors do not have access to the required labour for daily construction and Project management activities. BC Hydro and contractor costs increase to respond to COVID-19 and schedule delay impacts; camp capacity reduction and/or shutdown due to COVID-19 outbreaks. **Response:** As per Provincial Health direction, all Site C employers have implemented Communicable Disease Plans replacing COVID-19 safety plans. The worker accommodation contractor to apply public safety/infectious disease protocols in the worker accommodation camp, especially handwashing. BC Hydro to support vaccination programs at site, for both COVID-19 and seasonal flu.
Demand for concrete exceeds available supply	**Impact**: Concrete production increase may be required to maintain schedule. **Response**: Provide additional sources for materials, involve additional mining resources for sand, monitor progress rate closely to comply with the schedule.
Migratory bird convention or *Species at Risk Act* non-compliance events	**Impact**: Potential regulatory response resulting in additional costs and reputational impacts. **Response**: Conduct brushing and netting in tunnel conversion headpond area to deter birds nesting prior to nesting season.
BC Hydro charged by regulator related to an environmental incident	**Impact**: BC Hydro incurs costs and potential reputational impacts. **Response**: Ensure contractors meet contractual obligations for compliance with regulatory laws and follow their Environmental Management Plans. BC Hydro participates in legal proceedings and complies with orders and pays fines if required.
Increased duties on imported transformers	**Impact**: Transformers not delivered on time and higher costs. **Response**: Negotiate costs/schedule to maintain contractual delivery dates and seek the possible remission or reduction of the additional duty.
Transportation damage to and/or delay of parts/components	**Impact**: Schedule delays and additional cost. **Response**: Quality assurance inspections; early deliveries of critical parts and components; repurpose from subsequent units; and potential liquidated damages that impact the Project schedule.

1 **Table 12 Material Opportunities**

Opportunity Description	Impact and Response Plan Summary
Lower interest during construction due to timing of Project expenditures	**Impact**: Lower Project interest costs than the amount budgeted. **Response:** Monitor Project expenditure timing and manage expenditures effectively.

7 Key Procurement and Contract Developments

7.1 Key Procurements

The Site C procurement approach was approved by the BC Hydro Board of Directors in June 2012 for the construction of the Project. The procurement approach defined the scope of the major contracts and their delivery model. The vast majority of the major Site C contracts have been awarded. The remaining procurements on the Project are summarized in Table 13.

Table 13 Remaining Major Project Contracts and Delivery Models

Component	Contract	Procurement Model	Anticipated Timing
Reservoir/ Transmission Clearing	Multiple reservoir-clearing contracts to be awarded over seven to eight years	Design-Bid-Build	Seventeen contracts completed (15 reservoir, two transmission). One remaining access and clearing package is expected to be awarded in early 2023.
Reclamation Program	Multiple seeding supply contracts and reclamation contracts to be awarded over three to four years	Design-Bid-Build	Under the pilot program: • Three seeding supply contracts and three reclamation contracts were awarded. For the full program: • Packaging of work will be determined once the pilot program is completed in summer 2023.

7.2 Major Construction Contracts Exceeding $50 million

Since inception of the Project, 12 major construction contracts have been awarded that exceed $50 million in value, as shown in Table 14. The contract values reflect the current value including executed approved changes to the end of the reporting period.

All of the construction contracts have been procured and awarded as per BC Hydro procurement policies.

Table 14 Major Project Construction Contracts Awarded

Contract	Contract Value at December 31, 2022[16] ($ million)	Contract Execution Date
Site Preparation: North Bank	60	July 2015
Worker Accommodation	684	September 2015
Main Civil Works[17]	3,191	December 2015
Turbines and Generators	536	March 2016
Transmission and Clearing	93	October 2016
Quarry and Clearing	152	February 2017
Generating Station and Spillways Civil Works[18]	2,661	March 2018
Hydromechanical Equipment	70	April 2018
Transmission Line Construction	139	May 2018
Clearing and Aggregates	75	December 2018
Highway 29	380	October 2019
Balance of Plant Mechanical	71	July 2021
Balance of Plant Electrical (includes balance of plant architectural; heating, ventilation, and air conditioning; and fire detection and protection contracts)	236	September 2021[19]
Balance of Plant Permanent Upstream Fishway and Other Out Structures	87	January 2022

16 Contract value reflects the current value including executed change orders to the end of the reporting period. Contract values are rounded to the nearest million.

17 Includes some of the scope of work for the right bank foundation enhancements.

18 Includes some of the scope of work for the right bank foundation enhancements.

19 The contract for the balance of plant electrical work was executed in September 2021, with the architectural; heating, ventilation, and air conditioning; and fire detection and protection components included as an amendment and restatement of the contract in March 2022.

7.3 Contracts Exceeding $10 million

For open contracts procured and awarded in excess of $10 million, refer to Appendix H.

7.4 Contract Management

7.4.1 Material Changes to the Major Contracts

The main civil works contract is a unit price contract and as such variations in quantities and design are expected over the term of the contract. Since contract award in December 2015, the main civil works contract value has increased by $1.44 billion to reflect approved changes to December 31, 2022. This increase in contract value is primarily the result of a number of contract amendments since contract award in 2015 including contract amendments for each of the years 2018 through to December 31, 2022.

The generating station and spillways contract is also a unit price contract and, as such, variations in quantities and design are expected over the term of the contract. Since contract award in March 2018, the generating station and spillways contract value has increased by $1.05 billion to reflect approved changes to December 31, 2022.

The turbine and generators contract is a milestone-based design, supply, and installation contract. Since the March 2016 contract award date, the contract has increased by $71.7 million to reflect approved changes to December 31, 2022, which includes one contract amendment in 2022.

Request for proposals procurement processes were conducted for the balance of plant heating, ventilation and air conditioning contract and the fire detection and protection contract during the reporting period. BC Hydro received proposals for both contracts from the same contractor who had previously been awarded the Electrical contract. In addition, BC Hydro received one other proposal for the fire detection and protection contract from a different contractor. Following the evaluation and the

confirmation that the best evaluated proposals for both contracts were received from the existing electrical contractor, BC Hydro determined it would be more cost effective to combine the balance of plant heating, ventilation and air conditioning contract and the fire detection and protection contract with the existing balance of plant electrical contract. A $65.2 million heating, ventilation and air conditioning and fire detection and protection amendment was issued to the contractor in March 2022.

As a result of the scope additions, the balance of plant electrical contract has been restated in BC Hydro's contract management systems to reflect a revised "initial" contract price for the combined electrical, architectural, fire detection and protection and heating, ventilation and air conditioning scopes and values. Since contract award in September 2021, the balance of plant electrical contract value has increased to $236 million as of December 31, 2022.

The balance of plant permanent upstream fishway and other out structures contract was also awarded during the reporting period. The contract value as of December 31, 2022 is $87.5 million.

The worker accommodation contract is comprised of camp construction and camp operations and maintenance. Since the September 2015 award date, the contract has increased by $220.8 million to reflect approved changes to December 31, 2022. In January 2022, the worker accommodation contract increased by $108 million to cover a two-year term extension to December 2024.

8 First Nations Consultation

Pursuant to the Environmental Assessment Certificate and Federal Decision Statement, BC Hydro is required to engage with 13 Indigenous Nations with respect to the construction stage of the Project. This consultation includes the provision of information on construction activities, support for the permit review process, and review and implementation of mitigation, monitoring and management plans, and permit conditions.

BC Hydro continued to consult with respect to the construction stage of the Project, and to work with Indigenous Nations to prepare communities for reservoir filling, as described further below. Efforts are ongoing to conclude impact benefits agreements with the remaining First Nation communities with whom BC Hydro has not yet been able to achieve negotiated agreements.

Indigenous Procurement

BC Hydro continued to advance economic opportunities for Indigenous groups through procurement opportunities and capacity building with First Nations-designated businesses. In 2022, $96.9 million (69 contracts) were awarded to First Nation designated businesses. Since the beginning of the Project $846 million has been awarded to First Nations-designated businesses, including pre-construction contracts. BC Hydro continues to meet regularly with First Nations' business representatives to discuss remaining procurement opportunities, which include those associated with reclaiming.

Indigenous Burial Sites

Significant progress was made in 2022 towards the management of four registered burial sites within the Project area. Specifically, decisions were reached on the management approach for the two burial sites within the inundation zone. These decisions are the culmination of studies and engagement with Indigenous Nations that began over a decade ago.

BC Hydro is taking an Indigenous-led approach to managing these sites and has been seeking to build consensus on the management approach and how best to care for ancestral remains. Working with Indigenous Nations toward the appropriate care of burials sites is an ongoing priority.

Environmental Forum

The Environmental Forum was established to facilitate engagement with Indigenous Nations on Site C environmental programs and projects during construction. In 2022, six Environmental Forum meetings were held, including three field tours. Forum participation and involvement over the past year has included Blueberry River First Nations, Dene Tha' First Nation, Doig River First Nation, Duncan's First Nation, Fort Nelson First Nation, Halfway River First Nation, Horse Lake First Nation, Kelly Lake Métis Settlement Society, McLeod Lake Indian Band, Métis Nation BC, Prophet River First Nation and Saulteau First Nations. The focus throughout 2022 was on reservoir filling-related topics and regulatory requirements. Field tours in May, July, and October 2022 focused on dam site, Highway 29, wetland compensation and several Indigenous Traditional Use Fund project sites.

Cultural Centre

The Cultural Centre project is intended to showcase local Indigenous culture and history in the region, and to store and display many of the artifacts uncovered during the construction of Site C. It is being developed in full collaboration with Indigenous Nations, and the design and content are Indigenous led. In 2022, the participating Nations worked with a design team to complete the conceptual design. That design was approved by a committee of chiefs and elders. In total, seven Cultural Centre Development Project meetings were held in 2022. Eleven of 13 Indigenous Nations impacted by Site C participated in the Cultural Centre Development Project meetings, including Blueberry River First Nations, Doig River First Nation, Halfway River First Nation, Fort Nelson First Nation, McLeod Lake Indian Band, Metis Nation BC, Kelly Lake Metis Settlement Society, Prophet River First Nations, Saulteau First

Nations, Duncan's First Nation and Horse Lake First Nation. The project is near the end of the conceptual design phase and is preparing to enter the detailed design phase in late spring/early summer 2023. Participating Nations are enthusiastic about this project, and the discussions have been very positive and collaborative to date.

Indigenous Traditional Use Fund

The Indigenous Traditional Use Fund is available to support projects of interest or benefit to Indigenous Nations' traditional use of the land. Twelve of 13 Indigenous Nations impacted by Site C have Indigenous Traditional Use Fund projects either in progress or recently completed. Projects have ranged from the development of cultural camps to ungulate research. As of December 31, 2022, among the 12 Indigenous Nations using the fund, 14 projects are complete and 10 additional projects are underway. In 2022, $5 million was added to the fund, now totalling $13 million. To date, over $1.1 million has been expended and with an additional $1 million committed for projects underway. This is the third year since implementation of the fund.

Reservoir Filling Community Readiness

During this reporting period, BC Hydro has worked with Indigenous Nations to prepare for reservoir filling, the changes that will come to the Peace Valley as a result, and the impacts it will have on their communities. Taking a nation led approach, individual Indigenous Nations were invited to identify ways in which their communities would like to be informed and prepared for such changes. In response to the feedback received, BC Hydro hosted numerous open houses in First Nations communities, boat tours of the Peace River, Highway 29 and dam site tours, and provided quarterly updates on the timing and process of reservoir filling. As part of reservoir filling preparations, BC Hydro invited Nations to visit locations of cultural importance through such activities as additional site visits, identifying opportunities for cultural ceremonies, or documenting areas for a final time before cultural resources are lost to inundation.

Cultural Resource Mitigation Plan

For cultural resources identified to BC Hydro that may be adversely affected by Project activities, BC Hydro is working with Indigenous Nations to prepare Site Specific Mitigation Plans. These plans identify avoidance, mitigation, or commemoration activities that have been completed, are in-progress, and that are planned and proposed prior to construction activities, key project milestones, or during the operation of the Site C dam. Cultural resource information has been identified to BC Hydro through Traditional Land Use and Knowledge studies, ground-truthing, and on-going consultation.

During this reporting period, BC Hydro has developed draft plans, consulted on them, and finalized a total of 27 Site-Specific Mitigation Plans with seven Indigenous Nations to document the approach taken to avoid, mitigate, or commemoration each cultural resource adversely impacted by the Project.

9 Litigation[20]

The details of open proceedings as of December 31, 2022, are summarized in Table 15.

Table 15 Litigation Status Summary

Description		Date
B.C. Supreme Court: Treaty Infringement Claims		
West Moberly First Nations	Civil claim filed.	January 15, 2018
	Settlement of claims related to Site C.	June 24, 2022
B.C. Supreme Court: Civil Claims		
Building and Construction Trades Council	Civil claim filed. No steps have been taken in litigation that require a response from BC Hydro.	March 2, 2015
Michael Acko, etal (Residents of Old Fort community)	Civil claim filed.	January 18, 2021
	Response to claim filed.	September 8, 2021

[20] As indicated in the prior quarterly progress report, the Litigation summary level of detail has been simplified and the indicator in Table 1 has been removed.

Description		Date
Allianz Global Risks US Insurance Company, etal	Civil claims filed. Claims were filed by BC Hydro to preserve BC Hydro's rights to claim under Site C property insurance for losses related to left bank tension crack events and the rockfall event near a diversion tunnel inlet portal.	February 5, 2021 July 13, 2021
Vezer Industrial Professionals Canada Ltd.	Civil claim served. No steps have been taken in litigation that require a response from BC Hydro.	March 29, 2022
Armitage	Civil claim filed. Response to claim filed.	October 24, 2022 January 5, 2023
B.C. Supreme Court: Civil Claims – *Expropriation Act*		
Property owners	Sixteen notices of claims filed to keep open each plaintiffs' rights to claim further compensation under the Expropriation Act. The claims do not impact BC Hydro's property rights. Further appraisals and other information are required from the owners to advance their claims. No requirement for BC Hydro to file responses as of this reporting period.	July 2019 to February 2022

10 Permits and Government Agency Approvals

10.1 Background

BC Hydro continues to be issued permits and authorizations in accordance with its construction timelines. As of December 31, 2022, 601 of the estimated 648 provincial and federal permits and authorizations required throughout the life of the Project had been obtained and are actively being managed.

Multiple conditions are attached to each permit or authorization, which cover subjects such as air quality, water quality, fish and aquatics, wildlife, heritage, health and safety, construction environmental management and First Nations consultation. As of December 31, 2022, all required conditions and submissions have been met in accordance with the requirements of the conditions.

Table 16 Overview of Provincial Environmental Assessment Certificate and Federal Decision Statement Conditions

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
AQUATIC ENVIRONMENT			
Hydrology, water quality	3	12	Monitoring and management of hydrology, fluvial geomorphology and sediment transport, and water quality.
Downstream monitoring	-	5	Analysis of model predictions using existing data (Peace Athabasca Delta).
Fish and fish habitat	4	10	Protecting riparian zones, including fish passage, and managing total dissolved gas.
Vegetation and ecological communities	7	9	Updating mapping, conducting pre-construction surveys, analyzing wetland functions and replacing lost wetlands, protecting rare plants.
Species at risk	-	6	Ensuring that potential effects are addressed and monitored.
Wildlife resources	10	17	Providing bird windows and identifying mitigation measures for migratory and non-migratory birds, bats, snakes, and fishers.
Current use	4	4	Mitigating Indigenous plant use and ground truthing measures to inform additional measures.
LAND AND RESOURCE USE			
Fund Conservation Officer	1	-	Funding conservation office position for five years.
Harvest of fish and wildlife	1	-	Compensating guide outfitters and trap line holders.
Agriculture	2	-	Establishing a $20 million fund and monitoring.
Other resource industries	3	-	Addressing surplus aggregates, and interfaces with oil and gas producers.
Transportation	6	-	Controlling access, providing carpool plans, monitoring traffic and delivering appropriate signage. Also includes contingency hauling from 85th Avenue Industrial Lands to the dam site.

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
Outdoor recreation and tourism	3	-	Building boat launches and recreation fund, compensating campground owners, and informing downstream Alberta fishers.
COMMUNITY			
Community infrastructure	6	-	Mitigating effects on waste management, sewage and water systems.
Housing	2	-	Building 50 rental units in Fort St. John and providing camp accommodation for workers.
Regional economic development	6	-	Providing funds for Hudson's Hope, non-profits, labour/training plans, and community recreation.
HUMAN HEALTH			
Air quality/noise	4	7	Monitoring of ambient air quality, noise and vibration.
Water quality	1	-	Monitoring of potable and recreational water quality.
Methylmercury	1	7	Monitoring of accumulation in fish, including collection, timing and reporting requirements.
HERITAGE RESOURCES			
Visual resources	1	-	Managing landscape views through design of facilities exteriors and landscaping.
Heritage	3	6	Developing a Heritage Management Plan and providing funding for storage.
ENVIRONMENTAL PROTECTION AND MANAGEMENT			
Greenhouse gas monitoring	1	-	Monitoring greenhouse gas emissions.
Environmental management plans	4	-	Providing required plans and establishing requirement for an Independent Environmental Monitor.
Safety management plans	2	-	Developing and implementing Worker and Public Safety, Traffic Management, and Fire Protection Plans.
Dam safety	2	-	Undertaking a dam breach assessment and supporting emergency management in Alberta.

Type	Number of Environmental Assessment Certificate Conditions	Number of Federal Decision Statement Conditions	Notes
Mitigation, monitoring and development plans	4	-	Providing required mitigation plans, quarry development, Communications and Business Participation Plans.
Accidents and malfunctions	-	6	Providing required plan and consultation with Environment Canada on effects of potential accidents and malfunctions on the environment.
ADMINISTRATIVE			
General conditions	5	4	Requirements for plans and on consultation.
Implementation schedule	-	3	Providing an implementation schedule for conditions 90 days in advance of activity.
Record keeping	-	2	Retaining records in a manner that facilitates compliance review.
TOTAL	86	98	

10.2 Federal Authorizations

Site C requires federal authorizations under the *Fisheries Act* (Fisheries and Oceans Canada) and the *Canadian Navigable Waters Act* (formerly *Navigation Protection Act*) (Transport Canada). All major federal authorizations for construction and operation of the Site C dam and reservoir were received in July 2016.

One *Fisheries Act* amendment was issued during the reporting period for the temporary placement of fill material immediately downstream of the downstream cofferdam. Additional *Canadian Navigable Waters Act* approvals and notifications for discrete works in the reservoir (e.g., shoreline works, debris booms and Highway 29 bridges) are being issued at the regional level. As of December 31, 2022, a total of 124 federal approvals have been received and are actively being managed. Eleven future approvals are planned.

10.3 Provincial Permits

Site C requires provincial permits primarily under the *Land Act, Water Sustainability Act, Forest Act, Wildlife Act, Heritage Conservation Act,* and *Mines Act*. These permits include investigative permits, licences to occupy land, water licence approvals (leaves to commence construction and leaves to construct), and licences to cut vegetation, among others.

As of December 31, 2022, 467 of the estimated 501 provincial permits and approvals that are required throughout the life of the Project had been obtained and are actively being managed. These include permits for the dam site area, worker accommodation, Highway 29 realignment and decommissioning of the existing highway, transmission line and eastern, middle, and western reservoir. Future provincial permits are being planned for the remainder of the generating station and spillways construction, fish habitat enhancement sites, the permanent upstream fishway, and reservoir filling and operations.

10.4 Environmental Assessment Certificate

Compliance with the Project conditions in the Environmental Assessment Certificate is regularly monitored, and evidence is collected by various federal and provincial regulatory agencies, the Independent Environmental Monitor, BC Hydro and contractors.

As with any large construction project, refinements to the design are expected. As of this reporting period, BC Hydro has requested, and received from the Environmental Assessment Office, ten amendments to the Project's Environmental Assessment Certificate to reflect changes in Project design. The amendments have not resulted in any material impacts to the cost of the Project.

BC Hydro received two amendments to the Project's Environmental Assessment Certificate during the reporting period:

- On May 6, 2022, BC Hydro received an amendment to allow the relocation of the Cache Creek boat launch required by the Environmental Assessment Certificate to a location close to the Halfway River. As a result of engagement with First Nations, this amendment included a requirement for BC Hydro to fund a Conservation Officer position for five years; and
- On June 30, 2022, the Environmental Assessment Office issued an amendment to allow for contingency hauling on public roads if the conveyor carrying till material from 85th Avenue Industrial Lands to the dam site breaks down for reasons beyond BC Hydro's control. As a result of engagement with residents, local governments, and regulators, this amendment included a requirement for BC Hydro to develop an 85th Avenue Contingency Hauling Management Plan in consultation with First Nations, local governments and regulators.

BC Hydro is currently complying with all requirements of the Environmental Assessment Certificate amendments.

All amendments and amendment requests are posted on the Environmental Assessment Office website.

10.5 Annual Compliance Report

As detailed in the Environmental Assessment Certificate, the Project is required to submit an annual compliance report describing the status of compliance with the conditions of the certificate. The Project has met all required conditions and submitted its third annual compliance report on time on March 31, 2022, which can be found in Appendix G.

11 Environment

11.1 Mitigation, Monitoring and Management Plans

The Environmental Assessment Certificate and Federal Decision Statement conditions require the development of environmental management, mitigation and monitoring plans, as well as the submission of annual reports on some of these plans.

11.2 Project Environmental Compliance

Environmental compliance on the Project remains high. During the reporting period, 56,179 environmental compliance inspections were completed by BC Hydro staff, with a compliant and partial compliant result of 98% across all contractors and works areas.

Between January and December 2022:

- BC Hydro responded to four separate Environmental Assessment Office inspections (completed in April, July, September and December) and an inspection by the Impact Assessment Agency of Canada in October;
- The Environmental Assessment Office issued two orders in 2022, one in February to repair erosion along Old Fort Road and one in April for potentially acid-generating rock exposures. The Environmental Assessment Office also issued a warning letter in November; and
- The Impact Assessment Agency of Canada issued a notice of non-compliance letter in December.

During the reporting period, the Project worked to implement repairs required by the February Environmental Assessment Office order requiring the repair of ditch erosion within the Ministry of Transportation and Infrastructure's ditch line along Old Fort Road and into BC Hydro lands. The Project procured a contractor to undertake the works, obtained approval from the Ministry of Transportation and Infrastructure

for the works, and the repairs were mostly complete by the end of 2022, targeting February 2023 for substantial completion.

On April 21, 2022, the Project received an order from the Environmental Assessment Office related to various potentially acid-generating rock exposures across the Project. More information on BC Hydro's response to the order is provided in section 11.3.

In October 2022, the Impact Assessment Agency of Canada conducted one inspection of the Project and in December 2022 issued a warning letter to BC Hydro regarding over-greased and leaking equipment. In response, BC Hydro increased its inspections of this requirement and issued limited stop-work notices for select over-greased and leaking contractor equipment to ensure the equipment was cleaned and maintained before being returned to service.

The Project team meets with provincial and federal regulators monthly to ensure ongoing focus and attention to the areas of most importance and concern for the regulators, and to proactively address any environmental or regulatory issues that may arise.

Additionally, the Project has engaged both an Independent Environmental Monitor and an Independent Engineer that report directly to provincial regulators. The Independent Environmental Monitor provides weekly reports that have also demonstrated substantial compliance across the Project while continuing to identify areas of focus for sediment and erosion control, water management and spill prevention. The Independent Engineer works directly with site personnel to proactively identify design issues that may impact the environment and develop mitigation plans to avoid or minimize impacts.

2018 Stormwater Release Event and Environment Canada Investigation

Between September 8 to 9, 2018, approximately 55 mm of rain fell at the Site C dam site and across the North Peace. During the event, large volumes of rainwater

flowed over potentially acid-generating rock that had been exposed during excavation works taking place on the right bank.

The Site C main civil works contractor utilizes various holding ponds, as well as a water treatment plant, to manage water prior to discharge. As the rain event continued, the holding ponds reached capacity. Over a period of approximately 24 hours, the controlled release of approximately four million litres of water into the Peace River was taken to protect the water management infrastructure and ensure the structural integrity of the holding ponds.

The volume of water discharged from the holding ponds was relatively small compared to the overall flow of the Peace River. No impacts to fish or aquatic life in the Peace River were detected.

BC Hydro reported the event to provincial and federal agencies on September 9, 2018, including the Comptroller of Water Rights, B.C. Environmental Assessment Office and Canadian Environmental Assessment Agency. BC Hydro subsequently updated the Water Comptroller, B.C. Environmental Assessment Office, Canadian Environmental Assessment Agency, Department of Fisheries and Oceans and Emergency Management B.C.

Following the event, Environment and Climate Change Canada undertook an investigation of BC Hydro and the main civil works contractor with respect to potential non-compliance with the federal *Fisheries Act*.

In late October 2022, BC Hydro was notified of the results of the investigation. The main civil works contractor was charged with the deposit of a deleterious substance into the Peace River. BC Hydro and the contractor were both charged with a failure to report the deposit of a deleterious substance in a timely manner.

BC Hydro’s first court appearance to respond to these charges is scheduled for April 2023.

11.3 Potentially Acid-Generating Rock Management

The Project's Construction Environmental Management Plan has a well-established potentially acid-generating rock management plan that employs a variety of recognized techniques to identify, test, monitor and treat, if necessary, any potentially acid-generating rock during construction. Any potentially acid-generating rock sites located within the reservoir will be rendered inert once the reservoir is filled. Any potentially acid-generating rock sites remaining outside the reservoir post construction will be addressed through location-specific prescriptions provided by qualified environmental professionals.

The April 2022 Environmental Assessment Office order related to potentially acid-generating rock exposures has necessitated revisions to the Construction Environmental Management Plan. In September 2022 the Environmental Assessment Office requested BC Hydro to provide additional supporting evidence from its Qualified Environmental Professional for potentially acid-generating rock in support of these Construction Environmental Management Plan revisions. This submission was provided to the Environmental Assessment Office in October 2022 to which a response was not received before the end of 2022. In parallel with these revisions, this order has accelerated the need to consider potential mitigation options for potentially acid-generating rock exposures on the dam site that will not be covered by the reservoir. For this, the Project is seeking engineered design options and cost estimates for a sub-set of the potentially acid-generating rock exposures across the Project that will not be covered by the reservoir or that have been identified in past Environmental Assessment Office inspection reports. Results of these efforts will be summarized in future progress reports. The Environmental Assessment Office has indicated it will not pursue enforcement against the April 2022 order while the Construction Environmental Management Plan revisions are underway.

11.4 Heritage

In accordance with Environmental Assessment Certificate and Federal Decision Statement conditions, the Site C Heritage Resources Management Plan addresses the measures that will be used to mitigate the adverse effects of the Project on heritage resources.

The 2022 heritage program level of effort was significantly reduced compared to that in previous years, largely due to reaching the milestone of completing the archaeological inventory and impact assessment of the Project area in 2020. In 2022, pre-construction archaeological impact assessments and systematic data recovery at selected archaeological sites focused on locations where Project design changes required archaeological or heritage consideration. In addition, heritage support was provided for Indigenous burial management and Project construction.

Heritage field work included approximately 10 archaeologists as well as Indigenous community representatives. Seven archaeological interim reports and one archaeological annual report for 2022 work are pending submission to the B.C. Archaeology Branch and Indigenous groups in accordance with *Heritage Conservation Act* permit terms and conditions.

One palaeontological chance find report for 2022 will be submitted to the B.C. Archaeology Branch and the B.C. Heritage Branch.

Heritage reviews of contract documents, contractor environmental plans and construction readiness plans, as well as construction-related field inspections at archaeological sites were performed to ensure compliance. Additionally, three archaeological and palaeontological chance finds were identified and collected. One *Heritage Conservation Act* permit and one *Heritage Conservation Act* permit amendment was received in 2022.

11.5 Temporary Fish Passage Facility

BC Hydro operated the temporary fish passage facility from April 1 to October 31, 2022. This was the second full year of operation for the temporary fish passage facility. During this period, the facility passed 3,770 fish from 15 different species, compared to 2,465 fish from 11 different species during the same period in 2021. This improvement over the previous season is potentially due to refining the operations of the facility, and these refinements will be incorporated into the permanent fish passage facility.

In general, the passage rates in 2022 are following a similar seasonal pattern as observed in 2021. Twenty-eight mortalities were observed in 2022, representing 0.7% of all fish sorted in the facility; this figure is in line with the anticipated levels of mortality during operations.

Minor modifications were implemented during the reporting period to improve the facility's biological performance. These modifications have performed as intended and appear to be contributing to incremental improvements that facilitate the capture of bull trout (the primary target species), as well as other large-and small-bodied species, in 2022. Table 17 provides a list of the type and number of fish sorted in the facility in 2022.

Table 17 Temporary Fish Passage Facility Operation results

Species	Number of Fish Passed through Facility (April 1 to October 31, 2022)	Number of Fish Passed during Contingent Measures[21] (April 1 to October 31, 2022)	Total
Arctic Grayling	46	19	65
Bull Trout	17	70	87
Flathead Chub	1	-	1
Kokanee	1	-	1
Largescale Sucker	506	652	1,158
Longnose Sucker	473	637	1,110
Mountain Whitefish	1,812	16	1,828
Northern Pike	1	0	1
Northern Pikeminnow	84	0	84
Peamouth	1	-	1
Pearl Dace	2	-	2
Rainbow Trout	6	24	30
Redside Shiner	686	-	686
Slimy Sculpin	1	-	1
White Sucker	133	67	200
Total	3,770	1,485	5,255

11.6 Wetland Compensation Plan and Eagle Platforms

Between July and September 2022, BC Hydro rebuilt aging water control infrastructure at three historically constructed wetlands. By doing so, 175 hectares of wetlands were preserved that would otherwise have been lost and BC Hydro is able to credit these 175 hectares against the overall Site C wetland compensation requirements. About 100 hectares of additional wetland area is expected to be saved from loss at four additional historically constructed wetlands over the next four years. The total area required for compensation is being determined in part by ongoing wetland monitoring.

[21] During times of high-water levels or facility shutdown, BC Hydro implemented contingent fish passage measures by capturing fish downstream of the diversion tunnel outlet via boat electroshocking, then transporting the fish upstream of the Project.

During the reporting period, BC Hydro completed 13 additional artificial eagle platforms. This brings the total number of artificial platforms to 42 and completes this habitat requirement.

11.7 Greenhouse Gas Monitoring

In October 2022, BC Hydro began collecting data to support a pre-reservoir fill greenhouse gas (**GHG**) emission study. This data collection continued until the end of 2022 and will resume in early 2023. Three locations upstream of the dam site were selected for flux-chamber measurements, and soil organic carbon and vegetation sampling. This pre-reservoir fill information will be used to augment reservoir GHG monitoring data to support net GHG emissions calculations for the reservoir.

11.8 Agricultural Mitigation and Compensation Plan Framework

As part of the Site C Agricultural Mitigation and Compensation Plan, BC Hydro has established a $20 million BC Hydro Peace Agricultural Compensation Fund to support agricultural production and related economic activity in the Peace Region. The fund is governed by a regional decision-making board made up of representatives from five regional agricultural organizations, the Peace River Regional District, three agricultural producer members-at-large and one Peace River Valley agricultural producer. Northern Development Initiative Trust is the fund administrator and is managing the investment of the funds.

In 2022, 29 Peace Region agricultural projects received approximately $1.6 million in funding through the BC Hydro Peace Agricultural Compensation Fund and as of December 31, 2022, nearly $2.7 million has been distributed to 83 projects, including two projects that received funding through a one-time $1 million Agricultural Impact and Opportunities Initiative funding stream.

The BC Hydro Peace Agricultural Compensation Fund fall 2022 grant intake closed on September 30, 2022, with application review taking place in November 2022.

12 Employment and Training Initiatives and Building Capacity Initiatives

12.1 Labour

Since the beginning of the Project, unions that have participated in the construction of Site C are listed in Table 18.

Table 18 Participating Unions

Union
Construction Maintenance and Allied Workers (CMAW)
Christian Labour Association of Canada (CLAC), Local 68
Canada West Construction Union (CWU)
Construction and Specialized Workers Union (CSWU), Local 1611
International Union of Operating Engineers (IUOE), Local 115
Millwrights Union, Local 2736
Ironworkers, Local 97
International Brotherhood of Electrical Workers (IBEW)
MoveUP, Local 378
Pile Drivers Union, Local 2404
Boilermakers, Lodge 359
United Association of Journeymen & Apprentices of the Plumbing & Pipefitting Industry of the U.S. & Canada, Local 170
Teamsters, Local 213

In addition, ten unions affiliated with the B.C. Building Trades are signatory to the special project needs agreement for the installation of the turbines and generators.

The Site C balance of plant contractors are signatory to a special project needs agreement between the Construction Labour Relations Association and the Bargaining Council of B.C. Building Trades Unions.

12.2 Labour Updates on COVID-19 Pandemic

BC Hydro continues to provide updates to key Project unions on site regarding information that is being shared with workers, including the status of BC Hydro's COVID-19 vaccination policies.

BC Hydro continues to follow Ministry of Health guidelines regarding COVID-19. We also continue to work with Northern Health to monitor the latest health developments in order to help prevent the spread of illness on the Project. Testing kits continue to be available on site for all workers.

In November 2022, BC Public Heath updated their advice regarding COVID-19 isolations. Effective November 17, 2022, COVID-19 provincial guidelines recommended that everyone manage all illnesses, including COVID-19, similar to other respiratory infections like influenza. Workers on site who tested positive for COVID-19 were no longer required to isolate. Workers who tested positive were encouraged to avoid close contact with others, especially people at higher risk of severe illness due to complications from COVID-19 or influenza and, if they could not avoid close contact with others, take other precautions such as wearing a mask in indoor spaces and to clean hands regularly. In addition, workers were reminded to not return to work until their fever was gone (without the use of medicines that reduce fever) and they felt well enough to participate in daily activities.

In November 2021, BC Hydro introduced a mandatory vaccination policy requiring COVID-19 vaccinations for all employees and contractors working at BC Hydro work sites, including Site C, and to be fully vaccinated by January 10, 2022. On September 26, 2022, after careful consideration, BC Hydro suspended the COVID-19 vaccination policy. The decision to suspend the policy reflected the changing nature of the pandemic, diminished risk factors and the success of the policy. During the suspension period, the Project continued to collect the vaccination status for anyone accessing site, as the health authority had previously requested this information from large industrial projects. BC Hydro continues to work closely with Northern Health to monitor the latest developments.

12.3 Employment

Contractors submit monthly workforce data electronically to BC Hydro. Table 19 presents the monthly number of construction contractors, non-construction contractors, engineers, and Project team workers for this period.

As with any construction project, the number of workers — and the proportion from any particular location — will vary month-to-month and also reflects the seasonal nature of construction work.

Table 19 Site C Jobs Snapshot Reporting Period – January 2022 to December 2022

Month	Number of B.C. Primary Residents[22]	Total Number of Workers[23]
January 2022	2,824	3,991
February 2022	2,917	4,153
March 2022	3,124	4,430
April 2022	3,212	4,659
May 2022	3,454	5,060
June 2022	3,507	5,209
July 2022	3,647	5,414
August 2022	3,571	5,396
September 2022	3,594	5,420
October 2022	3,711	5,554
November 2022	3,552	5,238
December 2022	3,088	4,476

In December 2022, there were 4,476 total workers on the Site C Project. Sixty-nine per cent of the workforce (3,088 workers) was made up of residents of British Columbia, while 21% (788 workers) of the workforce lived in the Peace River

[22] Employment numbers provided by Site C contractors and consultants are subject to revision. Data not received by the Project deadline may not be included. Employment numbers are direct only and do not capture indirect or induced employment.

[23] Total workers include:

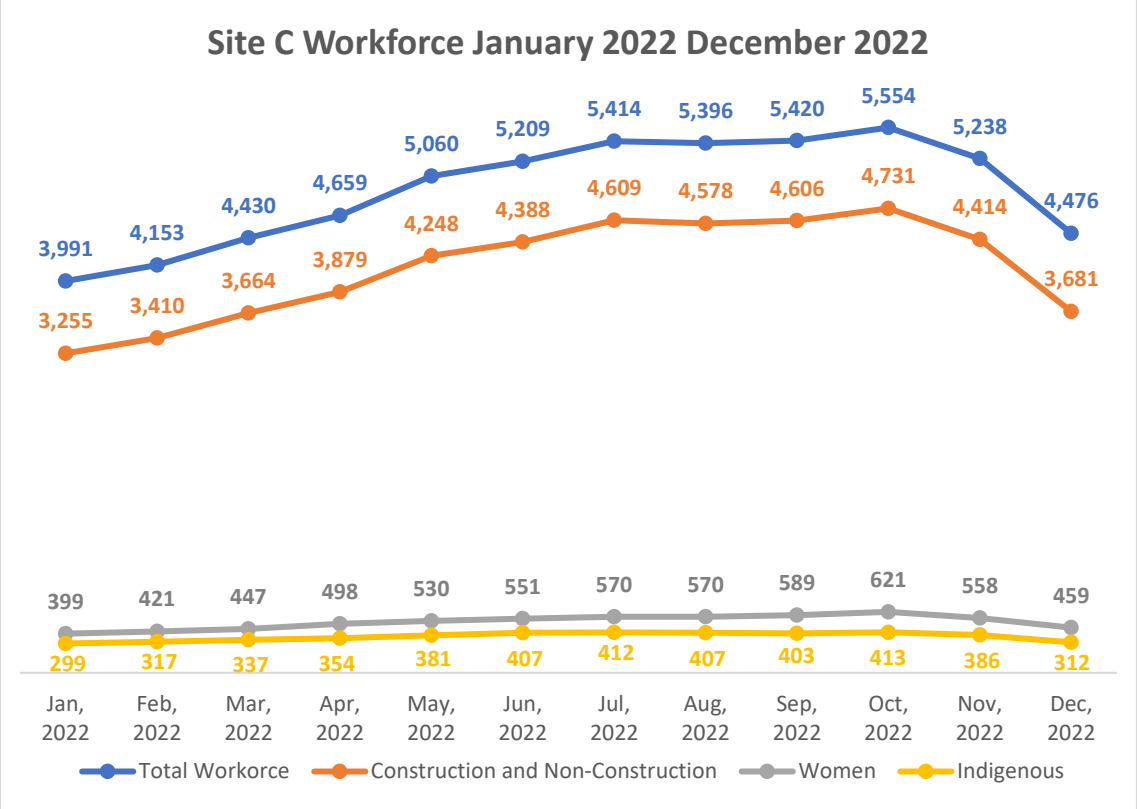
- Construction and non-construction contractors performing work on Site C dam site, transmission corridor, reservoir clearing area, public roadwork, worker accommodation and services.
- Engineers and Project team that is comprised of both on-site and off-site workers.
- The Project team, which includes, BC Hydro construction management and other offsite Site C Project staff. An estimate is provided where possible if primary residence is not given.

Regional District. The onsite contractor workforce number also includes 12% women (459 workers), 8% Indigenous (312 workers) and 13% apprentices (166 workers) who are working for various contractors as apprentice carpenters, electricians, millwrights, ironworkers, mechanics and boilermakers.

In 2022, the number of workers from the Peace River Regional District peaked at 1,085 in October 2022; this is slightly lower than the Project high of 1,144 Peace River Region-based workers, which occurred in October 2020.

Figure 5 shows the monthly Site C workforce over the period from January 1 to December 31, 2022.

Figure 5 Site C Total Workforce January 2022 to December 2022[24]



[24] The Indigenous and women numbers are a subset of the construction and non-construction contractors workforce number.

12.4 Training and Capacity Building Initiatives

BC Hydro has included apprentice targets in the generating station and spillways civil works contract, the transmission lines and the substation contracts, the balance of plant contracts and the Highway 29 work procured by BC Hydro, as appropriate.

Northern Lights College Foundation continues to distribute the BC Hydro Trades and Skilled Training Bursary Awards, established in 2013. As of December 31, 2022, a total of 290 students had received bursaries, including 135 Indigenous students who have benefitted from the bursary in programs such as electrical, welding, millwright, cooking, social work, and many others.

BC Hydro continues to work with local employment agencies to ensure that as job opportunities become available, they are posted on the WorkBC website as well as on the Fort St. John Employment Connections website.

Contractor Indigenous Employment and Training information Session

In February 2022, BC Hydro facilitated the seventh Indigenous Employment and Information session with Site C contractors and employment and training representatives from the Treaty 8 First Nations (the session was held virtually due to COVID-19). In attendance were six site contractors, and representatives from seven different Nations, as well as the North East Native Advancing Society and BC Hydro. The purpose of these meetings is to assist in building relationships between employment and training professionals from the Indigenous communities and key Site C contractors, as well as to share employment and training opportunities.

Site C contractors have noted that certain trades will continue to be in high demand during peak Project construction periods. BC Hydro worked with Northern Lights College and Site C contractors to develop several on-site pilot pre-skills programs for heavy equipment operators, carpentry, and fish and environmental monitoring,

which have been successfully delivered at site and virtually over the past couple of years.

In June 2022, BC Hydro hosted nine local Indigenous youth at site, along with employment and training representatives from local Indigenous communities and the North East Native Advancement Society, for a Summer Trades Exploration Day. The purpose of this event was to educate and bring awareness to local Indigenous youth regarding employment opportunities in the construction trades, as well as the work available in the construction trades on the Project. This event focused on the practical aspects of the trades such as the types of jobs available, the education required, and the type of work performed on a daily basis, including a typical day in the life of a tradesperson. Participants also had the opportunity to reside in camp for the night, to experience the full scope of life as a Site C worker. Youth and employment representatives from five First Nations participated in the event. All five of the major on-site contractors participated and contributed to this event.

Joint BC Hydro and Contractor Site Training

In September 2022, BC Hydro facilitated a joint training session on Indigenous awareness and the Builders Code, with representatives from BC Hydro and five Site C contractors attending. Indigenous Awareness 201 is a BC Hydro-led course covering Indigenous history in Canada and B.C., as well as BC Hydro's history with First Nation communities and BC Hydro's approach to advancing relationships with them. The Builders Code training had representatives from major contractors on site and focused on Site C's commitment to the Builders Code Pledge. This training reinforced Site C's commitment to providing a safe and productive environment for all workers across site. The Builders Code is a standard code of conduct for workers on construction sites in B.C. that defines an acceptable worksite as one that is safe and productive, where all workers work without the stress or distraction caused by discrimination, bullying, hazing, or harassment.

13 Community Engagement and Communication

13.1 Local Government Liaison

BC Hydro has concluded four community agreements with respect to the Project: the District of Chetwynd (2013), the District of Taylor (2014) the City of Fort St. John (2016) and the District of Hudson's Hope (2017). A community agreement between BC Hydro and the Peace River Regional District has yet to be finalized.

The Regional Community Liaison Committee, which is comprised of local elected officials and local First Nations communities, most recently met virtually for its regularly scheduled quarterly meeting on December 7, 2022. Eight local governments and four local First Nations communities (McLeod Lake Indian Band, Doig River First Nation, Saulteau First Nations and Blueberry River First Nations) as well as the two MLAs for Peace River North and Peace River South, are invited to participate as committee members. Representatives from the Project's major contractors may also attend the meetings as invited guests.

13.2 District of Hudson's Hope Well Water System

Under the Partnering Relationship Agreement signed with the District of Hudson's Hope in 2017, BC Hydro committed to mitigating the effects of the dam and reservoir on the community's infrastructure by replacing the District of Hudson's Hope water intake and pump house water supply system.

As plans for the water intake replacement and pump house were being discussed, the District of Hudson's Hope decided to change from a surface water source to a well water system.

BC Hydro entered into a Water Agreement with the District of Hudson's Hope in September 2019 and provided the District of Hudson's Hope with close to $5 million to fund engineering and water experts, studies, design, construction and

administration of the works. The District of Hudson's Hope is also responsible for all operations, performance, and warranty costs.

The District of Hudson's Hope new water treatment plant became operational on March 5, 2021.

Since the well water facility became operational, BC Hydro has been advised by the District of Hudson's Hope that it is not functioning as expected and the District of Hudson's Hope has incurred additional operating costs for the supply of potable water to its residents.

The District of Hudson's Hope water treatment plant failed on July 20, 2022 and again on December 28, 2022.

In fall 2022, the District initiated a three-phase plan to switch its raw water source from the well water system to the Peace River. BC Hydro and the District of Hudson's Hope are working to finalize an agreement that will provide additional funding for Phase 1 and Phase 2 of this plan.

13.3 Generate Opportunities Fund

In 2016, BC Hydro launched the Generate Opportunities (GO) Fund to support Peace Region non-profit organizations. The GO Fund is being distributed to organizations that provide services to vulnerable populations including children, families and seniors.

The GO Fund is administered by Northern Development Initiative Trust on behalf of BC Hydro. In 2022, BC Hydro distributed more than $66,000 to eight non-profit organizations in the Peace Region. As of December 31, 2022, approximately $638,000 had been distributed to 73 projects since the fund was launched in 2016.

13.4 Business Liaison and Outreach

No procurement notifications were sent in 2022.

13.5 Community Relations and Construction Communications

BC Hydro continued to implement its construction communications program throughout 2022. The program includes updating and maintaining the Project website (www.sitecproject.com) with current information, and photos and videos of construction activities, and providing information to local and regional stakeholders as required.

On March 14, 2022, BC Hydro participated in a virtual open house hosted by the Peace River Regional District to discuss BC Hydro's application to the Agricultural Land Commission to develop a fish habitat enhancement area at Wilder Creek.

On April 7, 2022, BC Hydro hosted a virtual information session with the community of Old Fort to discuss BC Hydro's plans for building fish habitat in the local area and the associated impacts from construction.

In late July 2022, BC Hydro held an in-person meeting between Old Fort residents and BC Hydro to follow-up on concerns raised by Old Fort residents regarding issues such as dust, air quality, noise and traffic. In response to this meeting, BC Hydro provided options to the residents, such as: offering to temporarily relocate residents; reimburse residents for cleaning the exterior of their homes; and continue to provide updates on dust suppression and road improvement activities as they relate to the community of Old Fort.

Further, BC Hydro's Chief Executive Officer met with a regional district elected official on September 23, 2022 and with two representatives of the community on October 26, 2022.

As a result of the concerns raised by residents, BC Hydro has taken the following actions including:

- Removing vegetation near Gate B on Old Fort Road to improve line of sight;
- Sweeping gravel from in front of Gate B;

- Frequently applying water and dust suppression to gravel roads within the project site, with a focus on those roads closest to Old Fort;
- Providing temporary relocation to residents;
- Reimbursement for the exterior washing of homes; and
- Implementing a procedure to allow residents of Old Fort and first responder vehicles to detour through Site C if there is a temporary closure of Old Fort Road.

As of December 31, 2022, about 30 residents had utilized the temporary respite for some period of time; and about 15 homeowners had utilized the exterior house cleaning offered.

Construction Bulletins

Bi-weekly construction bulletins continued to be issued throughout 2022. These bulletins are posted on the Project website and sent by email to the web-subscriber list. There were 26 construction bulletins and four quarterly construction notification letters issued in 2022, with eight and one, respectively, distributed in the final quarter of the year.

Public Enquiries

In total, BC Hydro received 670 public enquiries between January 1 and December 31, 2022. The majority of these enquiries continued to be about employment opportunities on the Project. Enquiries also came from nearby residents regarding construction impacts. Table 20 shows the breakdown of some of the most common enquiry types.

In total, BC Hydro has received more than 13,888 enquiries since August 2015.

Table 20 Public Enquiries Breakdown

Enquiry Type[25]	October 1, 2022 to December 31, 2022	2022
Employment Opportunities	42	214
Business Opportunities	12	52
General Information	51	216
Construction Impacts[26]	33	115
Other[27]	11	74
Total	149	671

13.6 Labour and Training Plan

In accordance with an Environmental Assessment Certificate condition, a Labour and Training Plan was developed and submitted to the Environmental Assessment Office on June 5, 2015. This plan, as well as Environmental Assessment Certificate Condition 45, includes annual reporting requirements to support educational institutions in planning their training programs to support potential workers in obtaining Project jobs in the future. This report has been issued to the appropriate training institutions in the northeast region annually since 2016. The most recent report was issued in August 2022.

13.7 Human Health

13.7.1 Health Care Services Plan and Emergency Service Plan

The on-site health clinic provides workers with access to primary and preventative health care and work-related injury evaluation and treatment services and is currently open seven days a week, 24 hours a day. Since opening the health clinic, there has been a total of 44,094 patient interactions (April 2017 to December 2022). During the last quarter of 2022, there were 2,009 patient interactions, of which 271 were occupational and 1,738 non-occupational. Several preventive health themes were promoted to workers in 2022 including: quitting smoking, options for reducing

[25] This table is a sample of enquiry types and does not include all enquiry types received.

[26] The nature of the construction impact inquiries is primarily air quality, noise and traffic conditions.

[27] "Other" accounts for enquiries related to a variety of other topics, such as recreation access near construction sites, property owner correspondence, or requests for site tours.

the risk of cancer, a focus on hearing loss attributed to both occupational and recreational activities that are preventable with awareness and appropriate protection, alcohol awareness and the associated health risks, first aid knowhow, a focus on health and safety in the workplace, hepatitis awareness, heat awareness, hydration and monkey pox.

From the onset of the pandemic in March 2020 to the end of 2022, 1,389 Site C workers had tested positive for COVID-19. As of December 31, 2022, the onsite medical clinic had administered 5,138 COVID-19 vaccinations, of which 2,233 were first doses, 1,930 were second doses, nine were third doses and 966 were booster doses.

13.8 Property Acquisitions

Property acquisitions required for the Project remain on track. Throughout 2022, BC Hydro acquired land and rights from a number of landholdings required prior to reservoir filling and substantially advanced the remaining acquisitions.

BC Hydro continues to focus on land acquisitions to enable upcoming reservoir filling. Up to 11 remaining acquisitions are required prior to reservoir filling. Land and rights will be acquired from a further 12 landholdings within the first year of reservoir operations.

In cases where BC Hydro acquired or expropriated land or rights for the Project under the *Expropriation Act*, notices of claim have been filed by the owners to keep open their rights to claim further compensation under the *Expropriation Act*. Further, appraisals and other information are required from the owners to advance their claims. BC Hydro will respond as required.

14 Impacts on Other BC Hydro Operations

During 2022, the operation of system storage at Williston Reservoir (including G.M. Shrum and Peace Canyon generating stations) was planned to meet flow releases necessary for Site C construction, and this operation continues. Water releases from the Peace Canyon generating station were maintained at or below the levels necessary for Project construction. BC Hydro maintained adequate vacant storage in Williston Reservoir to protect Site C construction works from flows that could otherwise exceed the capacity of the diversion works.

The Site C Project team continues to work closely with BC Hydro Operations on the integrated planning required in advance of filling the Site C reservoir.

15 Risk and Cost Management Assessment Summary and Independent Oversight

Since 2018, EY Canada has provided independent oversight for the Project, including budget oversight, schedule evaluation and risk assessment analysis. Table 21 provides a summary of the EY recommendations and BC Hydro's progress in 2022.

Table 21 EY Findings, Recommendations and BC Hydro Action Plan from 2022

	Area	Category	EY Recommendation	BC Hydro Progress
1	Risk Management	Documentation of Residual Risk	Following the review of both the CRA and SRA, it is EY's opinion that there is residual risk present on the Project that has yet to be captured in the risk register. It is recommended that BCH conduct a series of risk workshops to ensure that any further residual risk is captured ahead of the next CRA and SRA. Capturing these risks is important from a transparency and traceability perspective, it allows the Project to monitor the completion of any associated treatment plans and adjust the residual risk accordingly.	In Process. Risks included in the risk register have been reviewed and additional risks added where appropriate.
2	Risk Management	Scenario Analysis	Leverage the improvements made within risk management to provide supporting "what if" analysis for insight on certain decisions that will impact the risk profile. By providing this type of supporting analysis, with potential business cases, it will allow the decision-making process the benefit of a holistic view across the project and further highlights potential threats and opportunities associated with risk management	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
3	Risk Management	Opportunity Management	Opportunities need to be managed in the same way as threats to improve the probability of occurrence or maximize the potential outcome. As with threats, a plan to achieve the opportunity should be developed and closely monitored, as is the case with threats where a mitigation plan is often used.	Complete
4	Risk Management	Mitigation Tracking	Continue to develop its mitigation planning and reporting. Following the risk management enhancement plan and recent improvements within the cost risk analysis and schedule risk analysis, it's important that this work is carried on into the day-to-day management of risk.	Complete
5	Risk Management	Schedule Risk Management (Identification and Formal Documentation)	Focus on ongoing and future risks that could impact the schedule risk analysis including availability of labour and materials, safety delays, lower productivity challenges than planned and interface challenges given the pace of the critical activities ahead and increased velocity of risk realization in an accelerated construction environment.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
6	Risk Management	Additional review of the SRA assumptions and risks	The Project should undertake further review of the underlying assumptions and risks used to generate the SRA11 post-mitigation scenario. Subsequently, the SRA models should be generated again using the April 1, 2022 data date, inclusive of updated assumptions and risk analyses such that their impact on the SRA results is more readily understood.	Complete
7	Risk Management	Treatment Plan Analysis	It is recommended that BCH conduct an analysis of its existing risk treatment plans to document and assess the current cost to mitigate the risks. As documented in the CRA section of the report, this is a fundamental component of the risk strategy analysis BCH should be preforming on its risks. It is important as treatment plans are expanded or refined that these costs are revaluated on a regular basis. From EYs understanding, this was last performed at the time of the re-baseline exercise, given the progress on the Project, and expansion of some treatment plans, it is important this analysis is conducted ahead of the next CRA and SRA.	In Process. Analysis of existing treatments plans completed to document and assess the cost to mitigate risks. This was discussed with EY and the recommendation was closed in January 2023.

	Area	Category	EY Recommendation	BC Hydro Progress
8	Risk Management	Budget Transfer Linkage to Risk Review	Budget transfers between sub-projects should prompt risk reviews for any risks within associated scopes of work. These reviews should evaluate how a reduction in budget may impact or generate new residual risk (beyond the available budget). Following this review, where appropriate, risks should be adjusted to reflect any impact.	Complete
9	Schedule Management	Schedule Baseline Maintenance	Incorporate schedule updates related to the sub-projects once the details become available to ensure that the baseline schedule remains an accurate source of information for performance reporting. The baseline maintenance work should include updated schedule narratives for the affected sub-projects and an update on any potential changes to the schedule contingency.	Complete
10	Schedule Management	Schedule Documentation	Plan to produce a comprehensive re-baseline schedule narrative once there is more certainty in contractors' schedules. The updated schedules from contractors that reflect COVID-19 delays are a critical input to the Project schedule.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
11	Schedule Management	Risk Management Roles and Responsibilities	Re-evaluate the role of the estimating and scheduling function within the risk analysis process. EY views the role of the estimating and scheduling function as a support role to the risk analysis and management process. Risks that are included in the schedule risk analysis should be fed exclusively from the risk register, without material revisions. Revisions to risk inputs should involve consultation with the individual risk owners. It is EY's view that the risk management function should own both the schedule risk management and cost risk management in terms of day-to-day management and analysis.	Complete
12	Commercial and Claims	Process & Procedures	The Project commercial team should identify all key commercial and claims-related activities to ensure that there are corresponding process, guidance, and/or flow diagrams, inclusive of the minimum documentation requirements, available for use on the Project.	In Process. The Project Commercial team continued to advance governance documentation and met with EY in December 2022 to review. The Project Commercial team is now rolling out the documentation through meetings with applicable stakeholders.

	Area	Category	EY Recommendation	BC Hydro Progress
13	Commercial and Claims	Commercial & Claim Reporting	Consider enhancements to commercial and claims reporting to provide the level of visibility and traceability for commercial and claims-related activities that is consistent with other, similar projects of this size, scope and complexity. As EY has been providing feedback on a regular basis with respect to commercial and claims-related reporting, the Project team and EY have discussed reporting enhancements, which will be further detailed and refined in the coming months as part of a commercial management enhancement plan.	Complete
14	Commercial and Claims	Commercial Strategy & Direction	Consistent with EY's previous recommendation to consider including a resource that has suitable background and experience in commercial and claims management, it is essential that a strong understanding of commercial risk and exposure related to known claims is in place to enable the Project to better manage and mitigate future claim activity. It is also important that a commercial strategy is developed and approved so that the Project can transition towards proactive management of commercial risks and opportunities.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
15	Commercial and Claims	Claim Integration	As part of the commercial management enhancement plan, the Project team will work towards developing an approach to reporting that enables other key Project activities such as risk, cost, and schedule to leverage commercial and claims-related data. However, this is reliant on ensuring reports provide comprehensive representation of commercial risk and exposure relative to the overall Project. It is recommended that the commercial team, estimating team, and risk teams continue to define how they work together so that the claim assessment values are traceable and consistent in the cost risk analysis and schedule risk analysis values. It is therefore further recommended that the Project team seeks to understand and gather requirements for commercial and claims-related data that are required to support other key Project activities.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
16	Commercial and Claims	Claim Assessments	As part of the commercial management enhancement plan, the Project team will work towards developing an approach to reporting that provides transparency and traceability with respect to internal assessed values. However, this is reliant on the accuracy and availability of internal Project assessments of claims. It is therefore recommended that the Project team seeks to develop an approach to internal claims assessments which includes the development of internal claims assessments that correspond to individual claims and which further consider a range of outcomes such as best case, worst case, and most likely case scenarios.	Complete
17	Commercial and Claims	Commercial Management Team Resourcing	Consider including a resource that has suitable background and experience in commercial and claims management to support implementation and oversight of commercial and claims-related activities occurring on the Project. Furthermore, the Project team should provide clarity on the commercial management team roles, their respective responsibilities, and the processes that must be used by the sub-projects in order to enable clear oversight, guidance, and structure for commercial and claims-related activities.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
18	Commercial and Claims	Comprehensive Commercial Analysis	The Project should develop commercial strategies and direction for resolution of outstanding claims that are based on quantitative data, such as cost-benefit analyses and schedule impact scenarios. These should be integrated into commercial processes as a requirement for defined thresholds of cost and schedule impacts relating to commercial and claims-related activities. Additionally, the Project should assess potential interdependencies of claims between sub-projects and undertake further analysis where there may be interrelated cost and/or schedule impacts. This analysis should, at a minimum, consider and quantify potential cost and schedule impacts arising from other major sub-projects over time, in order to support commercial decision-making, CRA and SRA activities as well as to help define the strategy for resolution of the claim.	Complete
19	Commercial and Claims	Regular Review of Reported Claim Data	The Project should implement a regular review process that focuses on improving the quality and reliability of claim-related data through verification and validation of all data used to populate claim reports and the claim dashboards.	Complete

	Area	Category	EY Recommendation	BC Hydro Progress
20	Commercial and Claims	Reporting of Entitlement Review Status	Project claim reports should clearly identify the status of entitlement (i.e., yes, no, in progress, not started) in claim reports to improve the representation of overall risk exposure and indicate which claims truly have an internal assessed value of $0.	Complete
21	Commercial and Claims	Reporting of Schedule Delays Claimed and Assessed	Project claim-reports should clearly identify schedule delays claimed by the contractor and assessed by the Project.	Complete

16 Look ahead – January 2023 to December 2023

16.1 Construction

The following is a look ahead of activities planned to take place in 2023:

16.1.1 Key Milestones

Table 22 shows the key milestones for activities planned in 2023.

Table 22 Key milestones planned in 2023

Milestone	Performance Measurement Baseline (June 2021)	Plan Date (Control Date[28])	Forecast[29]	Status[30]
Generating Station and Spillways				
Headworks Gantry Crane Commissioned and Ready for Travel Load Tests	14-Jun-22	17-Oct-22	21-Feb-23	Late
Unit 6 Spiral Case Embedded and Generator 2nd Stage Concrete Complete (Pit Free)	05-Jan-23	05-Jan-23	20-Jul-23	Late
Balance of Plant				
Permanent Fish Facility (Flooded Structure)	n/a	15-Mar-23	15-Mar-23	On Track
Powerhouse Drainage & Dewatering Complete	23-Jan-23	23-Jan-23	07-May-23	Late
All Work in Powerhouse Bay 1 is Complete (Mechanical)	12-Mar-23	12-Mar-23	14-Jun-23	At Risk
G1 Protection & Control System	n/a	17-Feb-23	29-Jul-23	Late
Powerhouse AC Station Service for Tailrace Filling	n/a	23-Feb-23	29-Jul-23	Late
All Work in Powerhouse Bay 3 is Complete (Mechanical)	07-Aug-23	07-Aug-23	07-Aug-23	On Track
All Work in Powerhouse Bay 2 is Complete (Mechanical)	03-Jun-23	03-Jun-23	14-Aug-23	At Risk
All Work in Powerhouse Bay 2 is Complete (Electrical)	n/a	20-Jun-23	21-Aug-23	At Risk

28 Control date reflects plan, adjusted for approved changes to milestone dates.
29 As of December 31, 2022.
30 As of December 31, 2022.

Milestone	Performance Measurement Baseline (June 2021)	Plan Date (Control Date[28])	Forecast[29]	Status[30]
Permanent Fish Facility Complete	n/a	01-Sep-23	01-Sep-23	On Track
All Work in Powerhouse Bay 1 is Complete (Electrical)	n/a	15-Jul-23	07-Sep-23	At Risk
All Work in Powerhouse Bay 4 is Complete (Mechanical)	27-Sep-23	27-Sep-23	27-Sep-23	On Track
Complete for Reservoir Fill (Electrical)	n/a	01-Sep-23	14-Oct-23	At Risk
All Work in Powerhouse Bay 3 is Complete (Electrical)	n/a	27-Aug-23	10-Nov-23	At Risk
All Work in Powerhouse Bay 5 is Complete (Mechanical)	27-Nov-23	27-Nov-23	27-Nov-23	On Track
All Work in Powerhouse Bay 4 is Complete (Electrical)	n/a	11-Oct-23	08-Dec-23	At Risk
Spillway Protection & Control System Reservoir Level Monitoring	n/a	15-Jul-23	21-Dec-23	At Risk
Dam Safety Instrumentation	n/a	01-Aug-23	21-Dec-23	At Risk
Main Civil Works				
Ready for Tunnel Closure to Install Orifice	15-Jun-23	15-Jun-23	15-Jun-23	On Track
Earthfill Dam Complete	17-Sep-23	17-Sep-23	11-Aug-23	On Track
Removal of Right Bank Cofferdam east of its intersection	31-Aug-23	31-Aug-23	31-Aug-23	On Track
Approach Channel Complete	28-Aug-23	28-Aug-23	28-Aug23	On Track
Turbines and Generators				
Unit 6 Stay Ring and Spiral Case Assembled	25-May-22	17-Oct-22	17-Jan-23	Late
Unit 1 Ready to Turn	01-May-23	26-Jun-23	15-Jun-23	On Track
Unit 2 Ready to Turn	09-Aug-23	03-Oct-23	03-Oct-23	On Track
Highways				
Complete Highway 29	31-Jul-23	31-Jul-23	31-Jul-23	On Track
Reservoir				
Clearing Complete for Watson Slough	28-Mar-24	28-Mar-24	30-Mar-23	On Track
Reservoir Prepared for Inundation	30-Apr-24	30-Apr-24	30-Jun-23	On Track

Milestone	Performance Measurement Baseline (June 2021)	Plan Date (Control Date[28])	Forecast[29]	Status[30]
Transmission				
5L15 Transmission Line In-Service Date	06-Jul-23	06-Jul-23	06-Jul-23	On Track
5L16 Transmission Line In-Service Date	01-Sep-23	01-Sep-23	01-Sep-23	On Track
5L17 Transmission Line In-Service Date	02-Oct-23	02-Oct-23	29-Sep-23	On Track

16.1.2 Main Civil Works

In the upcoming year, the focus of the activities for the main civil works scope of work will be primarily on completion of the earthfill dam to elevation 470 metres. This work includes maximizing the excavation of materials from aggregate sources for construction of the shell, as well as the excavation and transportation of till for the core of the earthfill dam from the 85th Avenue Industrial Lands.

Other work includes the completion of consolidation grouting on the dam and dam abutments, as well as the approach channel excavation and the installation of the permanent debris handling facilities.

16.1.3 Site Operations and Infrastructure

Worker Accommodation

BC Hydro expects to fully utilize the 2,200 beds in the worker accommodation facility during the 2023 construction season. In the upcoming year, BC Hydro will work with the worker accommodation contractor to begin planning for the eventual decommissioning of the worker accommodation facility.

Debris Management

BC Hydro's debris management contractor will mobilize to site near the end of March 2023 to re-string the upstream Peace River debris boom and launch the

barge. Debris management operations will take place as required on the Moberly and Peace Rivers from April 2023 to approximately November 2023.

The team is actively developing a strategy to mitigate debris management risks for the time period during tunnel conversion/reservoir filling. This period will also transition debris management from the temporary debris facilities on the Moberly and Peace Rivers to the permanent debris boom structure which will be operated by dam operations in the future.

Fish Habitat on Peace River Island west of Old Fort (P5 Island)

A forecasted low flow period from April to June 2023 will provide an opportunity for the contractor to safely resume in-river work to excavate approximately 130,000 cubic metres of aggregate and create fish habitat to meet regulatory commitments. Following completion of the aggregate excavation and hauling of the material to the dam, the remaining bridge will be removed and the access road reclaimed.

P3/P8 fish habitat and channel contouring

Following the request for qualifications award of the P3/P8 fish habitat and channel contouring contract in February 2023, the contractor will mobilize to site in early March 2023 and begin clearing and construction of a 1,300-metre channel called P8 across the 107R Island. Pending low flows forecasted from April to June 2023, excavation of the in-river aggregate at P3 will be completed concurrently with the channel construction project.

16.1.4 Right Bank Foundation Enhancements

Construction of the powerhouse piles is on track to be completed in spring 2023. The completion of the enhancements to the erosion protection downstream of the piles and enhancements to the approach channel are on track to be completed in summer and fall 2023, respectively.

16.1.5 Generating Station and Spillways

During 2023, the key activities include:

- Powerhouse: complete all second stage concrete for units 4 to 6 (concrete to main floor of powerhouse complete);
- Intakes: complete first stage concrete for all intakes. Complete all intake gates;
- Penstocks: install three replacement flexible couplings;
- Spillways headworks: complete all spillway radial and vertical gates; and
- Diversion tunnels: install orifices in tunnel 2 to enable reservoir filling.

16.1.6 Balance of Plant

Over the next year, the mechanical and electrical contractors will install the majority of the electrical and mechanical components. The permanent upstream fishway is scheduled to be completed. Commissioning activities on these assets will commence.

16.1.7 Turbines and Generators

Three of the generating units will be substantially complete/assembled in 2023. The assembly of the remaining three will continue during the period.

16.1.8 Transmission

Transmission work in 2023 includes the installation of the remaining three transmission towers on penstocks 1, 3 and 5 and stringing of the lines to the powerhouse to connect the Site C generating station to the Site C substation.

16.1.9 Highways and Hudson’s Hope Shoreline Protection Berm

Completion of all six Highway 29 segments (Cache Creek/Bear Flats, Halfway River, Farrell Creek East, Farrell Creek, Dry Creek and Lynx Creek) is scheduled to occur

in 2023. This includes the opening of the final segment, Halfway River, to traffic in February 2023.

Decommissioning of the abandoned highway segments will be completed in 2023.

Removal of the old BC Hydro distribution and telecommunications infrastructure is scheduled to be completed in 2023.

The reclamation of the Portage Mountain Quarry is scheduled to begin in 2023.

16.1.10 Reservoir

Clearing of the Watson Slough area and headpond brushing will continue in early 2023. The construction of the final habitat site will occur in spring/summer 2023.

16.1.11 Engineering

The engineering team will continue to provide technical and construction support to the Project through 2023, including support for reservoir filling and Project completion, and the achievement of the contractors' schedules.

16.2 Quality Management

In 2023, the quality management team will continue to work with manufacturers and contractors to ensure they are meeting their obligations with regards to quality control of their work. Important areas of focus will include monitoring contractor quality control and assurance resources at site, auditing the materials testing laboratories at the site, collating quality documentation for completed manufacturing and site work(s) and closing out deficiencies and nonconformities to facilitate handover of work areas and the transition between construction and operations.

16.3 Safety and Security

In anticipation of another busy construction year in 2023, our Project safety priorities will align with critical construction work streams including completion of the earthfill dam, continued build-out of generating facilities (intakes, penstocks, spillways), coordinating work in the busy powerhouse across several contractors, and planning for new tunnel conversion and reservoir filling activities. BC Hydro's safety team has several safety initiatives underway to support this construction work including Project safety workshops and training, safety communications, and job aids to help complete hazardous work procedures safely. BC Hydro will also continue to ensure contractors meet their safety and regulatory responsibilities under our Contractor Safety Programs.

16.4 First Nations Consultation

In 2023, BC Hydro will continue to work with First Nations to conclude impact benefits agreements with the remaining communities most impacted by Site C and with whom BC Hydro has not yet been able to achieve negotiated agreements. In addition, BC Hydro will continue to consult with respect to the construction stage of the Project, and to work with Indigenous groups to prepare communities for reservoir filling. Reservoir filling-related activities will remain a focus in 2023. BC Hydro will work collaboratively with participating Indigenous Nations to implement agreed upon management approaches for impacted burial sites, as well as to advance design of the Cultural Centre.

16.5 Permits and Government Agency Approvals

Permits and licences are required for various construction activities to be undertaken in 2023. Approximately 35 permit applications are anticipated to be submitted for approval in 2023. Delays to these permits, licences or amendments may result in delays to the associated construction work. However, BC Hydro continues to consult with federal and provincial authorities, local governments and First Nations

communities to mitigate this risk and does not anticipate delays that will impact construction schedules. Specific actions to mitigate risks to permits and licences include:

- Early identification and submission of permit and licence applications through consultation with contractors (e.g., weekly meetings with main civil works and generating station and spillways contractor on permits/permitting plan);
- Weekly meetings with Ministry of Forests on permitting process, technical details and consultation status;
- Bi-weekly meetings with the Environmental Assessment Office;
- Bi-Weekly leave to commence construction scoping meetings with the Comptroller of Water Rights, Independent Engineer, and Independent Environmental Monitor (and contractor, as appropriate);
- Weekly meetings and monthly on-site visits with BC Hydro, the main civil works contractor, generating station and spillways contractor, Independent Engineer and Independent Environmental Monitor regarding leave to construct approvals; and
- Proactive key stakeholder and First Nations community consultation on Environmental Assessment Certificate condition amendment requests.

16.6 Environment

Site environmental monitoring and mitigation work will continue through 2023. The Project team will continue to collaborate with Indigenous groups, stakeholders and regulators to ensure BC Hydro is adhering to the environmental conditions of both the Environmental Assessment Certificate and Federal Decision Statement and any other permits or authorizations. Experts in wildlife, vegetation, physical environment and fisheries will continue to collect field data and install mitigation features, such as constructed wetlands and fish habitat offsets.

On-site compliance resources will continue to perform daily inspections and work with contractors to ensure environmental compliance. Compliance staff will continue to focus on the areas of sediment and erosion control, water management, hydrocarbon spill prevention and will increase focus on wildlife attractant management. Additionally, as few new work fronts are starting up, and many are finishing, site staff will work closely with the contractors and contract managers to receive acceptable environmental completion reports for completed work fronts. This will be a significant work effort into 2023.

16.7 Community Engagement and Communications

Community engagement and communications continues to be a priority for the Project.

The Site C public affairs team will attend both in-person and virtual business and chamber of commerce meetings in Fort St. John, Dawson Creek, Chetwynd and Prince George. In addition, Project update presentations will be provided to various organizations and key stakeholders as opportunities arise.

The Regional Community Liaison Committee will continue to meet quarterly to discuss Project progress and areas of community interest.

Initial communication and public engagement on reservoir filling began in fall 2022 and will ramp up in 2023. Direct engagement with local residents on Project impacts, such as reservoir debris burning, Hudson’s Hope water treatment and Old Fort respite from construction dust/noise will continue, as necessary.

Discussions will also continue with the Peace River Regional District to reach a community measures agreement.

16.8 Property Acquisitions

Over the next year, BC Hydro will continue the property acquisition efforts for the remaining private property owners that will be impacted by reservoir filling and preliminary impact lines.

16.9 Material Project Risks and Opportunities

Risk management is an ongoing, iterative process. As documented in the Site C Risk Management Plan, the ongoing risk management activities include risk and opportunity identification; analysis and evaluation; response planning; and monitoring and control. Over 2023, the Project's risk registers will be regularly updated to identify new risks and opportunities, refine risk evaluations and treatment plans, and monitor mitigation activities.

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Appendix A

Site Photographs

Figure A-1 Excavation work continues at the approach channel | January 2022

Figure A-2 Construction on the spillways including foundation enhancements and drilling of the west bay | January 2022

Figure A-3 **All six spiral cases for the generating units are in varying stages of construction inside the powerhouse | February 2022**

Figure A-4 **Pile installation for the foundation enhancements on the west spillway stilling basin | February 2022**

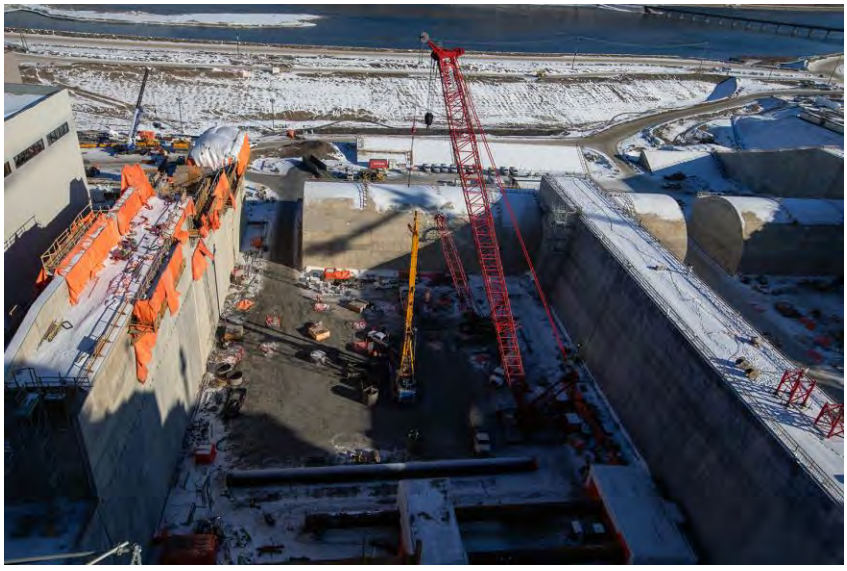

Figure A-5 **Workers climbing a guyed tower to attach the conductors | February 2022**

Figure A-6 **The hopper and feeder are the primary supply loading point for the conveyor that transports glacial till from the 85th Ave Industrial Lands to Site C | April 2022**

Figure A-7 **The Intake structures for units 1, 2, 3 and 6 are at full elevation and construction on the intake structures for units 4 and 5 continues | June 2022**

Figure A-8 **The second to last penstock segment waits for installation on penstock unit 4 | June 2022**

Figure A-9 Progress on the Hudson's Hope shoreline protection berm | July 2022

Figure A-10 Construction of the intake gates for units 4 and 5 | August 2022

Figure A-11 **The penstocks for units 1 (right side of picture) to 6 (left). Units 1-3 and unit 6 are encased in concrete; work is ongoing to complete units 4 & 5 | August 2022**

Figure A-12 **East-facing view of the completed Site C substation. Transmission lines will be installed on the towers in the foreground to connect the substation to the Site C dam and generating station | September 2022**

Figure A-13 **A complete cable tray system on the generator floor level of the powerhouse | September 2022**

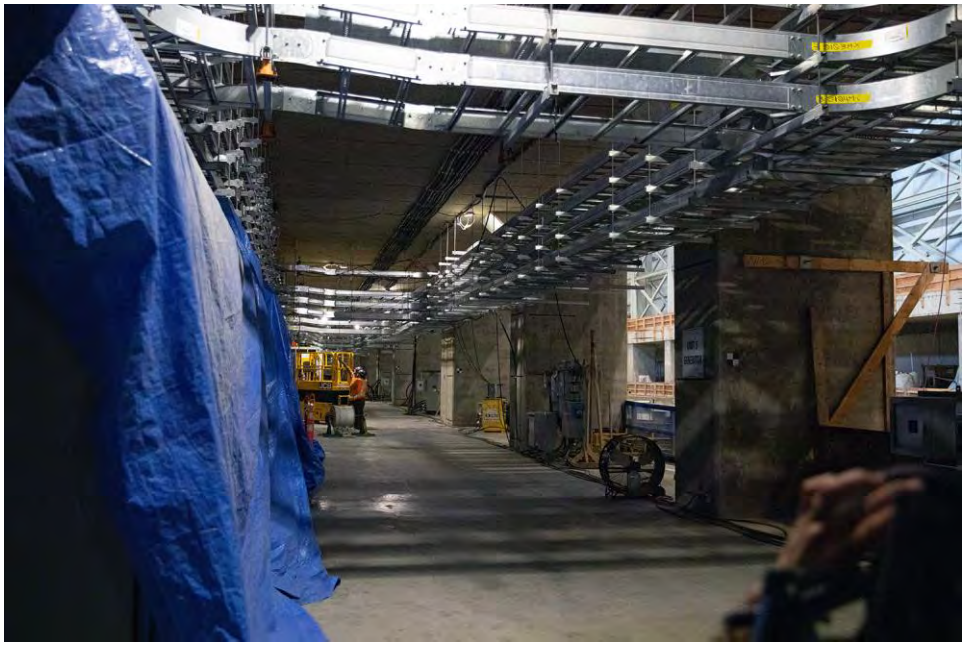

Figure A-14 **A north-facing view at the Lynx Creek boat launch with the existing Highway 29 alignment shown in front | October 2022**

Figure A-15 Riprap stockpile at Septimus rail siding | October 2022

Figure A-16 East-facing view of the approach channel, where riprap (grey material on the right of the picture) defines the outer edge of the channel | October 2022

Figure A-17 Penstock units 1 (right) to 6 (left) at various stages of construction | October 2022

Figure A-18 East-facing view over the powerhouse and operations building and the future transformer yard | October 2022

Figure A-19 Front-view of concrete placement and formwork installation at the permanent upstream fish passage facility | October 2022

Figure A-20 One of 42 artificial nesting structures intended to support bald eagle nesting near the future reservoir | October 2022

Figure A-21 Farrell Creek Bridge open to traffic on October 27 | October 2022

Figure A-22 Installation of the unit 1 turbine runner | October 2022

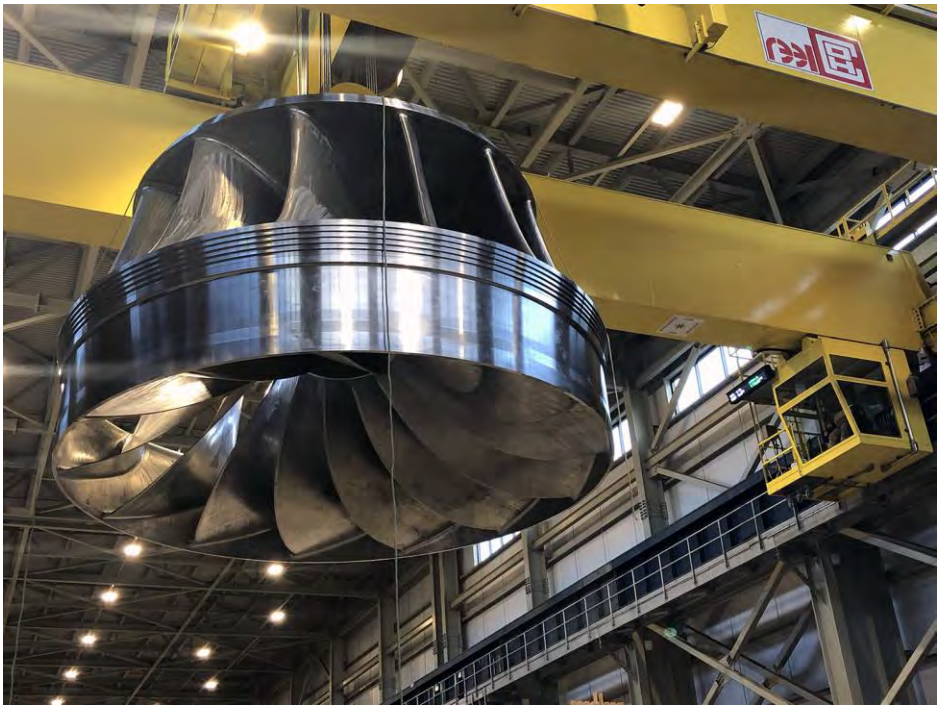

Figure A-23 **Hoarding and heating (under the plastic sheeting) to protect from the cold while placing concrete at the penstocks | November 2022**

Figure A-24 **Wedging the generator stator on unit 1 inside the powerhouse | November 2022**

Figure A-25 Lowering unit 1 turbine shaft into position on the turbine runner. The shaft connects the turbine to the generator on the generating unit | November 2022

Figure A-26 Completed Cache Creek Bridge on Highway 29 | November 2022

Figure A-27 Permanent upstream fish passage, which will help fish migrate upstream of the dam site | November 2022

Figure A-28 A gantry crane on top of intake unit 1 | November 2022

Figure A-29 The dam buttress, with the earthfill dam under construction, at a height of 445 metres above sea level | November 2022

Figure A-30 The inlet portals (left) where the Peace River enters the diversion tunnels, and the earthfill dam (centre) being built. | November 2022

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Appendix B

Work Completed Since Project Commencement in 2015

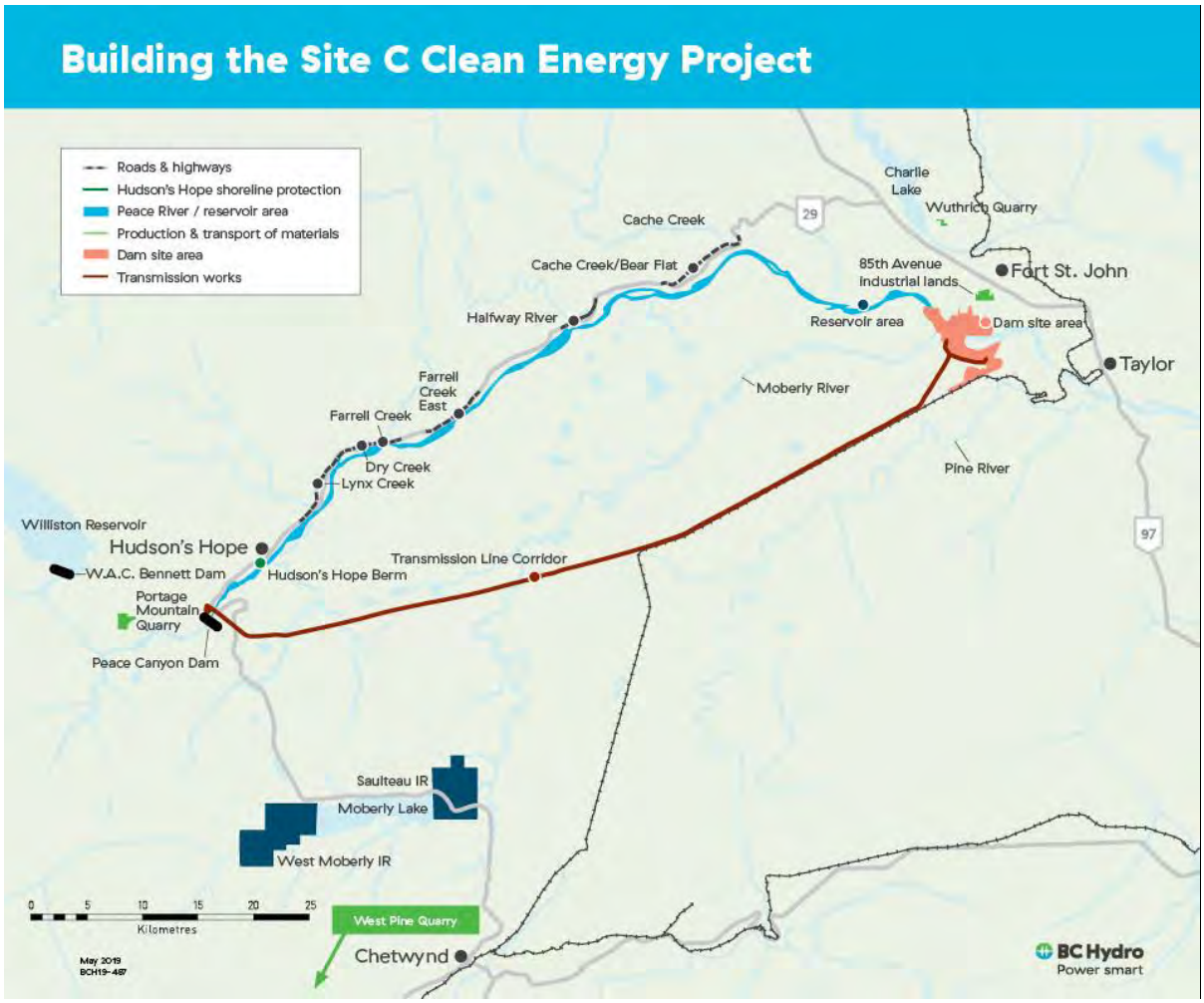
Construction began on July 27, 2015 and is ongoing. Since the commencement of construction, the following work has been completed:

- Site preparation, including onsite access roads;
- Clearing of the left and right banks at the dam site and clearing of the lower reservoir area;
- Construction of the worker accommodation lodge and Peace River construction bridge;
- Powerhouse excavation, and the placement of 650,000 cubic metres of roller-compacted concrete in the powerhouse buttress;
- Spillways excavation, and the placement of 600,000 cubic metres of roller-compacted concrete in the spillways buttress;
- Construction of dam site access public roads;
- Construction of the Site C viewpoint;
- Construction of 50 affordable housing units in Fort St. John;
- Fish habitat enhancements downstream of the dam site;
- Excavation of the diversion tunnel inlet (upstream) and outlet (downstream) portals, allowing for the commencement of diversion tunnel excavations;
- Excavation of the right bank drainage tunnel, which will be used to monitor and drain the water from within the foundation under the powerhouse, spillways and dam buttresses and will eventually be connected to services within the powerhouse;
- Completion of two river diversion tunnels, which are used to reroute a short section of the Peace River to allow for the construction of the main earthfill dam;

- Completion of the upstream and downstream cofferdams;
- Construction and commissioning of the temporary fish passage facility;
- Diversion of the Peace River around the Site C construction site;
- Completion of the Peace Canyon 500 kV gas-insulated switchgear expansion to enable connection of Site C to the BC Hydro electrical system;
- Completion of the Site C substation and the first of two new 500 kV transmission lines;
- Completion of the finishing concrete work inside the 454-metre-long left bank drainage tunnel;
- Earthfill dam excavation, and the placement of 450,000 cubic metres of roller-compacted concrete in the dam and core buttress, marking the completion of the Project's overall roller-compacted concrete placement program. In total, nearly 1.7 million cubic metres of roller-compacted concrete has been placed since 2017;
- Completion of the steel super-structure for the powerhouse;
- Completion of the second of two new 500 kV transmission lines that connect Site C to the Peace Canyon generating station;
- Completion of the bridges at Dry Creek, Lynx Creek, Farrell Creek, and Cache Creek as part of the Highway 29 realignment; and
- Completion of the shoreline protection berm at Hudson's Hope.

Figure B-1 shows the location of the key Site C components that are being constructed.

1 **Figure B-1 Site C Project Components**



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Appendix C

Safety and Security

Safety Incidents

The following safety incidents occurred from January 1 to December 31, 2022:

Serious Safety Incidents

1. A worker was hoisting their lunch in a tower crane, slipped on the steel platform and fell through the ring gear. The worker landed on their back on the lower level and fracturing their ribs.
2. Hot work (welding) was being performed on the exterior of a penstock, and the uncured paint in the interior of the penstock began to smoke and burn while three workers were inside of the penstock.
3. A nine-foot 4x6 piece of lumber fell from height and contacted a worker's hand. This was a near miss, no injuries.
4. Two workers were directed to delineate and dewater a pile hole to prepare it for concrete completion. Protective barriers around the pile hole were removed to access the area. While placing delineation near the pile hole, a worker slipped into the unprotected pile hole. The pile hole was three metres deep full of water. Another worker working in the area helped the worker out of the hole.
5. An excavator operator was tasked to build a berm and improve access to the east end of a frozen pond as preliminary work prior to proceeding with dredging operation. The excavator travelled too far into the pond from its intended work area.
6. A four-foot aluminum ladder (five pounds) fell 100-feet to the ground from the turret section of a concrete placing boom.
7. A six-pound slick line securement metal plate fell approximately 20-feet in the powerhouse, landing near a worker.
8. A 16-foot 2x4 piece of lumber slid through an opening of the shoring tower and fell approximately 30-feet, landing on the auxiliary spillway steps.

9. During flushing of a paint gun, the paint thinner ignited in a bucket. The worker suffered minor first degree burns on their neck.
10. An excavator bucket dropped while unloading from the truck. There were workers working in the area.
11. A worker failed to stop at a controlled intersection and drove across an active haul road, cutting off a 100-tonne haul truck.
12. A load of logs was not secured before the truck left Area 24.
13. A tower crane contacted a concrete placing boom.
14. A light duty truck was non-compliant with haul road traffic management controls.
15. The load line of a tower crane contacted the jib of another tower crane.
16. A concrete hose became loose and struck a worker.
17. A worker slipped on a ladder and cut their thigh on unprotected rebar in the fishway area.
18. A dozer snagged a guy wire. The power pole broke and brought a powerline down.
19. A contractor moved a live cable without de-energizing the cable.
20. A large cleaning bucket was not secured to the loader forks as it was being transported; the bucket slid off the forks and the bucket rolled once before stopping.
21. An untethered nail bar dropped from a height of 80 feet.
22. A piece of lumber dropped from height and contacted a worker.
23. A propane leak was detected in the unit 6 work area.
24. A limits of approach encroachment occurred when a contractor was excavating near a 138kV line.

25. A worker failed to tie off at a height of 40 feet.
26. An excavator entered an unknown water depth in the Peace River, forcing the equipment operator to exit the excavator.
27. A guardrail failed in the powerhouse. There was a fall exposure of 30 feet.
28. While removing sheet piles from a berm, the lifting chain attached to an excavator broke and contacted a worker's face.
29. A light duty truck operator failed to follow haul traffic right of way procedures and a haul truck had to use their emergency brakes.
30. A worker fell from a height of 12 feet and suffered a laceration to their ear, requiring stitches.
31. A worker was leaning backwards out of a window, without fall protection, at a height of about 15 feet.
32. A forklift operator lifted an occupied portable toilet.
33. A large pipe rolled off a trailer.
34. A light duty vehicle entered a heavy equipment work area.
35. There was a rigging sling failure and an excavator attachment dropped from the trailer.
36. A wrench dropped from 75 feet.
37. A vehicle dislodged a rock towards an employee.
38. A worker slipped and fell off a lowbed trailer and fractured their arm.
39. A pipe wrench slipped out of an overflowing skip box that was being lifted at a height of 20 feet.
40. A piece of 4x6 lumber dropped from seven feet and contacted a worker's hand.

41. A worker was welding above transformer towers on top of the powerhouse roof in unit 2, and the welding sparks fell on tarps. A fire started on the transformer deck on top of the coupling chamber.
42. A ruptured haul truck tire injured a worker.
43. While welding overhead, welding slag fell onto the worker's face shield, melted through, contacting their eyelid.
44. Worker was using a mag drill to clear out holes in a piece of steel. The drill bit caught, and the worker suffered a complex fracture to their wrist.
45. A gust of high wind dislodged a sheet of unsecured plywood placed against the railing to prevent dropped objects.
46. A circular saw kicked back during use, catching the worker's sleeve. The worker suffered an arm laceration.
47. A worker landed a load of super studs (12 feet long). The worker cut the banding which caused the load to shift, pushing the worker over the edge of the work deck. The worker landed on protected rebar three feet below and sustained an injury to their torso.
48. A light duty vehicle failed to yield at a haul road intersection, and an oncoming haul truck had to break suddenly.
49. A worker was assisting coworkers with removal of temporary scroll case beams. When cutting the bolts, support beam kicked back approximately four feet, contacting the worker in the leg. The worker fell backwards injuring their hand.
50. While a worker was removing busing carrier dowel pin in the headcover, the hydraulic porta-power cylinder kicked out and contacted the worker in the torso.
51. A worker was observed sitting inside the bucket of an excavator on a steep slope, while installing nails to secure a tarp to the slope.

52. A skip box was lifted approximately 2-3 feet. The skip box moved, contacting a worker's chest while worker was inspecting for loose objects.
53. A worker was observed exiting and then re-entering an aerial work platform at height (onto a steel column). The worker did not have the basket close to the steel structure and climbed over the guardrail.
54. Worker removed a hatch cover, which was covered in snow. Snow fell 30-40 feet, landing on other workers below.
55. A worker was observed working at height while standing on a cable tray and the top rung of a step ladder.

All Injury Incidents:

The 57 all injury incidents that occurred during this reporting period include six lost time injuries and 51 medical attention requiring treatment injuries (moderate and minor). Note that serious incidents resulting in an injury will be listed as both serious incidents and all injury Incidents.

Lost Time Injuries:

1. A worker slipped on ice and fractured their ankle which required surgery.

2. An employee tripped on a parking lot divider and suffered knee, shoulder, hand and face injuries.
3. While removing sheet piles, the chain from the excavator broke and contacted a worker's face.
4. A worker slipped and fell off a lowbed trailer and fractured their arm.
5. A ruptured haul truck tire injured a worker.

Medical Attention Requiring Treatment Injuries

6. A worker was hoisting their lunch in a tower crane, slipped on the steel platform and fell through the ring gear, landing on their back on the lower level. The worker fractured their ribs.
7. A worker injured their hand while using a power tool.
8. A piece of slickline pipe slipped and the worker suffered a laceration to their finger.
9. A worker slipped on ice and injured their ankle.
10. A worker injured their foot while using a pressure washer.
11. A worker injured their back while completing surveying work.
12. A worker injured their finger while working with metal hardware components.
13. A panel slid off a pile and contacted a worker's knee.
14. A worker was using a bristle blaster and debris entered their eye.
15. A worker was drilling anchor points and metal debris entered their eye.
16. A worker slipped on snow and injured their ankle.
17. A worker was unhooking rigging on a work platform and the platform shifted. The worker pinched their hand.

18. A worker was using a utility knife to cut a hose when the knife slipped. The worker suffered a laceration on their hand that required stitches.
19. A worker injured their elbow while stripping coil rods.
20. A dozer and haul truck contacted each other. The worker suffered a minor back injury.
21. A worker's head contacted a rebar matting after they lost their footing on a ladder. The worker suffered a two-inch laceration.
22. A worker was using a power tool and injured their hand.
23. A worker slipped on uneven ground and fractured their foot.
24. A worker was grinding, and metal particles entered their eye.
25. A light duty vehicle slipped on ice and the driver lost control of their vehicle. The vehicle went into the ditch and rolled over.
26. A worker was grinding, and debris entered their eye.
27. A worker was using a measuring tape and injured their finger.
28. A worker was removing their welding personal protective equipment and metal fillings entered their eye.
29. A worker slipped on a ladder and cut their thigh on unprotected rebar in the fishway area.
30. A worker was using a utility knife to cut a suction line when the knife slipped. The worker suffered a laceration on their hand that required stitches.
31. A worker fractured their hand while using a wrench.
32. A worker was using a utility knife to cut corks when the knife broke. The worker suffered a laceration on their hand that required stitches.
33. A worker tripped on uneven ground and injured their leg.

34. A worker slipped on rebar and suffered a laceration on their leg that required stitches.
35. A worker fell from a height of 12 feet and suffered a laceration to their ear that required stitches.
36. A worker fractured their finger while using a pipe wrench.
37. A worker slipped on mud and fractured their foot.
38. A worker slipped and injured their arm.
39. A worker was using a utility knife to cut tape when the knife slipped. The worker suffered a laceration on their hand that required stitches.
40. A worker cut their hand between a burke bar and a piece of coil rod.
41. A worker injured their chin while disconnecting a hose connector.
42. A worker cut their arm while using a power tool.
43. A worker pinched their finger between a 2x6 board and a concrete wall.
44. A worker was stung by a wasp and required medical treatment.
45. A worker slipped on a scaffolding plant and injured their hand.
46. A worker tripped on a deck and dislocated their finger.
47. A worker tripped on a set of forklifts and fractured their elbow.
48. A worker's head contacted a rebar after their hardhat fell off. The worker suffered a two-inch laceration that requires stitches.
49. A worker strained their ankle while climbing up a rebar cage.
50. A worker's head contacted a rebar after their hardhat fell off. The worker suffered a laceration on top of their head that required stitches.
51. A circular saw kicked back during use, catching the worker's sleeve. The worker suffered an arm laceration that required stitches.

52. A worker was scraping the concrete out of a chute and struck another worker with the scraper. The second worker had a laceration in the lip area that required a glue stitch.

53. A worker slipped on a wet tarp and injured their neck.

54. A worker fractured their finger while using a hammer.

55. A worker caught their finger between a super stud and a deck of formwork and fractured their finger.

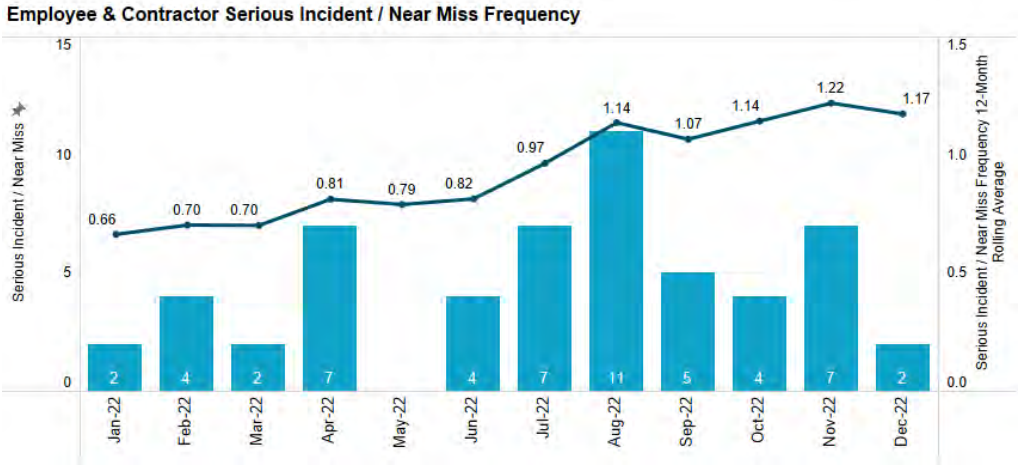
56. A worker slipped and fell while exiting their vehicle in icy conditions. The worker injured their wrist.

57. A worker fractured their finger when it came into contact with an object in the worker accommodations gym.

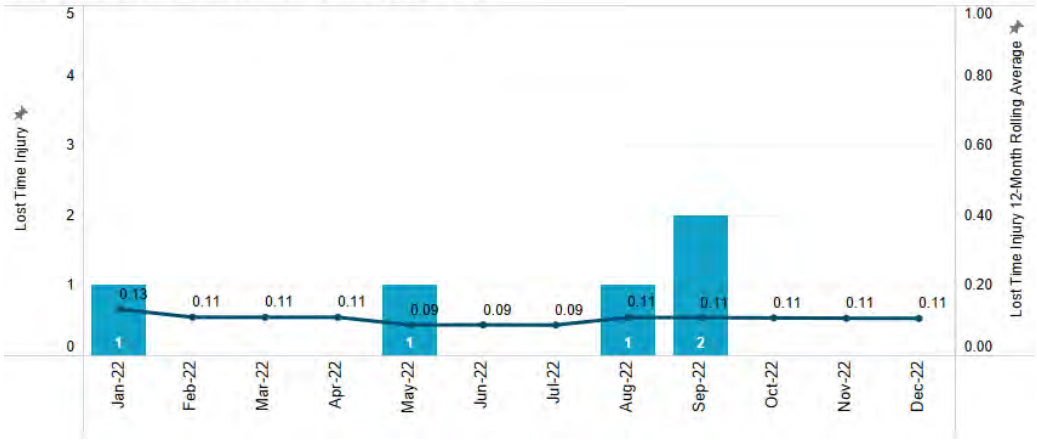
Safety Performance Frequency Metrics

Figure C-1 provides information on employee and contractor serious incidents/near miss frequency, lost-time injury frequency and all injury frequency as of December 31, 2022.

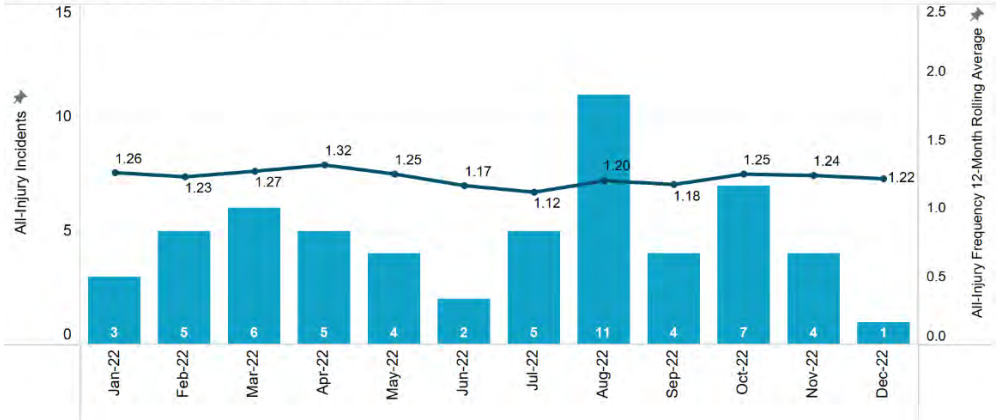
Figure C-1 Employee and Contractor Serious Incidents/Near Miss Frequency, Lost-Time Injury Frequency and All Injury Frequency



Employee & Contractor Lost Time Injury Frequency



Employee & Contractor All-Injury Frequency



Regulatory Inspections and Orders

Table C-1 lists the safety regulatory inspections and orders received from WorkSafeBC and the Ministry of Energy, Mines and Low Carbon Innovation from January 1 to December 31, 2022 and for the period October 1 to December 31, 2022.

Table C-1 Safety Regulatory Inspections and Orders

#	Date of Inspections	Regulatory Agency	Site C Subproject	Inspection Report #	Inspection Report Type	Inspection Report Status	Number of Orders Issued	Subject of Orders	Regulation Order / Reference
1	January 25, 2022	WorkSafeBC	Main Civil Works	202217876003A	Acknowledgement Notice - slip, trip, fall	Closed	0	-	Reference: WCA69(1)(b); OHS4.39(1)
2	January 31, 2022	WorkSafeBC	Main Civil Works	202217876005A	Acknowledgement Notice - chemical splash	Closed	0	-	References: WCA69(1)(b); OHS5.85; OHS5.90(1); OHS8.14(3)(b)
3	February 3, 2022	WorkSafeBC	Main Civil Works	202217876006A	Accepted Investigation - slip, trip, fall	Closed	0	-	Reference: WCA72(2)
4	February 25, 2022	WorkSafeBC	Reservoir	202217791016A	Site Inspection - forestry clearing (Contractor 1)	In Progress	3	MSI Risk Assessment Inspection Records (x2)	Orders: OHS4.47; OHS26.65(5); OHS26.66(8.1) References: WCA88(1); WCA88(2)
5	February 25, 2022	WorkSafeBC	Reservoir	202217791017A	Site Inspection - forestry clearing (Contractor 2)	In Progress	1	Inspection Records	Orders: OHS26.66(8.1) References: WCA88(1); WCA88(2); OHS26.65(5); OHS26.67(2)
6	February 25, 2022	WorkSafeBC	Reservoir	202217791020A/B	Site Inspection - forestry clearing (BC Hydro)	Closed	1	Safe Work Practices	Orders: OHS26.2(1) References: WCA88(1); WCA88(2)
7	February 28, 2022	WorkSafeBC	Main Civil Works	202217876017A	Incident Investigation - vehicle collision (Contractor)	Closed	0	-	References: WCA69(1); WCA71(2)(c); WCA72(2)(b)
8	March 10, 2022	WorkSafeBC	Main Civil Works	202217876018A	Incident Investigation - vehicle collision (BC Hydro)	Closed	0	-	References: WCA69(1); WCA71(2)(c); WCA72(2)(b)
9	March 14, 2022	WorkSafeBC	Main Civil Works	202217876024A	Acknowledgement Notice - slip, trip, fall	Closed	0	-	References: WCA69(1)(b); OHS8.22(1); OHS8.22(2)
10	March 14, 2022	WorkSafeBC	Main Civil Works	202217876025A	Acknowledgement Notice - rock truck loading	Closed	0	-	References: WCA69(1)(b); OHS16.20(3); OHS7.11(b); OHS7.13
11	April 11, 2022	WorkSafeBC	Main Civil Works	202217876033A	Incident Investigation - heavy equipment contact	Closed	0	-	References: WCA69(1)(b); WCA71(2)(c); WCA72(2)(b)
12	April 14, 2022	WorkSafeBC	GSS	202217876035A	Incident investigation: Crane Misadventure	Closed	2	Overlapping operating zone procedures Clearance and freedom to slew	Orders: OHS14.84.1(5); OHS14.85(2) References: WCA69(1); WCA71(2)(c); WCA72(2)(b); WCA89(1); WCA88(1); WCA..
13	April 14, 2022	WorkSafeBC	Main Civil Works	202217876034A	Risk Management Basics Inspection	Closed	0	-	References: OHS3.3; OHS3.5; WCA31; OHS3.26(1); OHS3.26(2); WCA69(1); WCA21(1)
14	April 19, 2022	WorkSafeBC	GSS	202217876037A	Incident investigation: Crane Misadventure	Closed	0	-	References: WCA71(2)(c); WCA72(2)(b); WCA89(1); OHS14.16.1(2); OHS4.3(3)
15	May 3, 2022	Ministry of Energy, Mines and Low Carbon Innovation	Infrastructure	188175	General site inspection	In Progress	4	Safe Work Practices Haul Road Compliance	Orders: Section 3.9.1; Section 6.19.2; Section 6.9.1; Section 6.9.2
16	May 3, 2022	Ministry of Energy, Mines and Low Carbon Innovation	Infrastructure	188187	General site inspection	Closed	0	-	No orders / references
17	June 26, 2022	WorkSafeBC	Turbine Generator	202217791072A/B	Site Inspection - welding	In Progress	7	Ventilation System Hazard Assessments Safe Work Practices	Orders: OHS5.64(1); OHS5.61; OHS4.3(2); OHS5.57(3); OHS9.5; WCA21(2)(e); WCA21(1)(a).
18	June 27, 2022	WorkSafeBC	GSS	202217876053A	Incident Investigation - injury of a worker	Closed	3	Inspections of Ladders Ladder Position and Stability Protruding Objects	Orders: OHS13.3; OHS13.5(2)(b); OHS20.25(1) References: WCA69(1); WCA71(2)(c); WC..
19	June 29, 2022	WorkSafeBC	Turbine Generator	202217791068A	Site Inspection - welding and confined space entry	Closed	0	-	Reference(s): OHS3.3; OHS3.5; WCA31; OHS3.26(1); OHS3.26(2); WCA69(1); WCA21(1); OHS5.57(1)(a); WCA84(1); WC..
20	June 29, 2022	WorkSafeBC	Turbine Generator	202217791074A	Site Inspection - welding and confined space entry	Closed	0	-	References: OHS3.3; OSH3.5; WCA31; OHS3.26(1); OHS3.26(2); WCA69(1); WCA21(1); OHS5.57(1)(a)
21	June 30, 2022	WorkSafeBC	Highway	202217791069A/B	Aggregate Crushing Silica Dust Management	Closed	3	Stop work order Crystalline Silica Guarding	Order(s): OHS6.114; OHS12.2(b); WCA90(1) Reference(s): WCA88(1); WCA88(2); WCA..
22	June 30, 2022	WorkSafeBC	Highway	202217791070A	Aggregate Crushing Silica Dust Management	Closed	0	-	nil
23	July 5, 2022	WorkSafeBC	Turbine Generator	202217791075A	First Aid Compliance	In Progress	2	First aid procedures Coordination at multiple-employer workplaces	Order(s): OHS3.17(1); WCA24(1)(b) Reference(s): WCA88(1); WCA88(2); OHS3.20
24	July 12, 2022	WorkSafeBC	All	202217791099A/B	Dust management	Closed	1	General duties of owners	Order: WCA25(a) Reference(s): WCA88(1); WCA88(2)
25	August 7, 2022	WorkSafeBC	GSS	202217009085A	Incident Investigation - injury of a worker	Closed	1	Obligation to use fall protection	Order(s): OHS11.2(1)(a) Reference(s): WCA69(1); WCA71(2)(c); WCA72(2)(b), OHS2.8(1)
26	August 10, 2022	WorkSafeBC	Infrastructure	202217791096A/B	Order to stop use unsafe equipment	Closed	2	Load handling attachments Stop use order	Order(s): OHS16.30(1); WCA89(1) Reference(s): WCA88(1); WCA88(2); WCA89(4); OHSA4.3(1)(B)(i)
27	August 11, 2022	WorkSafeBC	Main Civil Works	202217791097A	Incident Investigation - injury of a worker; Order to stop use unsafe equipment	Closed	2	Special inspections are required Stop use order	Order(s): OHS3.7; WCA89(1) Reference(s): WCA88(1); WCA88(2); WCA69(1); WCA71(2)(c); WCA72(2)(b); W..
28	August 24, 2022	WorkSafeBC	GSS	202217876056A	Incident Investigation - injury of a worker	Closed	0	-	Reference(s): WCA68(1)(a), WCA69(1), WCA72(2), OHS3.16(1)(a), OHS3.19(3), OHS3.18(1)(a)
29	August 24, 2022	WorkSafeBC	Main Civil Works	202217876055A	Incident Investigation - injury of a worker	Closed	0	-	Reference(s): WCA68(1); WCA69(1), WCA72(2)
30	September 24, 2022	WorkSafeBC	GSS	202217876060A	Incident Investigation - injury of a worker; Access / Egress	Closed	2	Inadequate guardrails Stability of ladders	Order(s): OHS4.57; OHS13.5(2)(b) Reference(s): OHS13.3; OHS13.5(2)(a); OHS11.2(1)(a); OHS11.2(1)(b); OHS20.5(4..
31	September 24, 2022	WorkSafeBC	GSS	202217876062A	Incident Investigation - injury of a worker; Access / Egress	Closed	0	-	Reference(s): OHS13.3; OHS4.55; OHS4.57; OHS13.5(2)(b); OHS11.2(1)(a); OHS11.2(1)(b); OHS20.5(4)
32	November 8, 2022	WorkSafeBC	All	202217791116A	Confined space procedures discussion	Closed	0	-	Reference(s): REF0(1); OHS3.3; OHS3.5; WCA31; OHS3.26(1); OHS3.26(2); WCA69(1); WCA21(1); OHS9.2; OHS9.4; ..
33	November 14, 2022	WorkSafeBC	GSS	202217876067A	Work process discussion	Closed	0	-	Reference(s): OHS3.3; OHS3.5; WCA31; OHS3.26(1); OHS3.2(2); WCA69(1); WCA21(1); OHS14.42(1); OHS14.42.1(1); ..
34	December 7, 2022	WorkSafeBC	Main Civil Works	202219801034A	Fit for duty discussion	Closed	0	-	Reference(s): WCA22(2)(d); OHS4.19(1); OHS4.20(2); OHS16.24(1)(d); OHS16.17(2); OHS16.3(1)
						Total	**34**		

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Annual Progress Report No. 7
(Combined with Quarterly Progress Report No. 28)

Appendix D

Workforce Review

Table D-1 Current Site C Jobs Snapshot (January 2022 to December 2022)[31]

	Number of BC Workers and Total Workers	Construction and Non-construction Contractors[32] (Including some Subcontractors). Excludes Work Performed outside of B.C. (e.g., Manufacturing)	Engineers and Project Team[33]	TOTAL
January 2022	BC Workers	2,140	684	2,824
	Total Workers	3,255	736	3,991
February 2022	BC Workers	2,231	686	2,917
	Total Workers	3,410	743	4,153
March 2022	BC Workers	2,418	706	3,124
	Total Workers	3,664	766	4,430
April 2022	BC Workers	2,499	713	3,212
	Total Workers	3,879	780	4,659
May 2022	BC Workers	2,708	746	3,454
	Total Workers	4,248	812	5,060
June 2022	BC Workers	2,751	756	3,507
	Total Workers	4,388	821	5,209
July 2022	BC Workers	2,906	741	3,647
	Total Workers	4,609	805	5,414
August 2022	BC Workers	2,828	743	3,571
	Total Workers	4,578	818	5,396
September 2022	BC Workers	2,842	752	3,594
	Total Workers	4,606	814	5,420
October 2022	BC Workers	2,949	762	3,711
	Total Workers	4,731	823	5,554
November 2022	BC Workers	2,797	755	3,552
	Total Workers	4,414	824	5,238
December 2022	BC Workers	2,349	739	3,088
	Total Workers	3,681	795	4,476

31 Employment numbers are direct only and do not capture indirect or induced employment.

32 Construction and non-construction contractors includes work performed on Site C dam site, transmission corridor, reservoir clearing area, public roadwork, worker accommodation and services.

33 Engineers and Project team are comprised of both on-site and off-site workers. The Project team includes BC Hydro construction management and other offsite Site C Project staff. An estimate is provided where possible if primary residence is not given.

Employment numbers provided by Site C contractors are subject to revision. Data not received by the Project deadline may not be included.

BC Hydro has contracted companies for major contracts, such as main civil works, who have substantial global expertise. During the month of December 2022 there were no workers in a specialized position working for Site C construction and non-construction contractors, who were subject to the Labour Market Impact Assessment process under the Federal Temporary Foreign Worker Program. Additionally, there were 28 management and professionals working for Site C construction and non-construction contractors through the Federal International Mobility Program.

Table D-2 Preliminary Site C Apprentices Snapshot (January 2022 to December 2022)

Month	Number of Apprentices
January 2022	140
February 2022	159
March 2022	172
April 2022	170
May 2022	162
June 2022	167
July 2022	163
August 2022	162
September 2022	161
October 2022	185
November 2022	197
December 2022	166

Data is subject to change based on revisions received from the contractors.

Table D-3 Current Site C Job Classification Groupings

Biologists and laboratory	Carpenters	Inspectors	Construction managers/ supervisors	Crane operators	Electricians	Engineers
Foresters	Health care workers	Heavy equipment operators	Housing staff	Heating, ventilation, and air conditioning	Kitchen staff	Labourers
Mechanics	Millwrights	Office staff	Pipefitters	Plumbers	Sheet metal workers	Truck drivers
Underground mining	Welders	Surveyors	Security guards	Boilermakers	Cement masons	Crane Operators
Ironworkers						

Table D-4 Indigenous Inclusion Snapshot (January 2022 to December 2022)

Month	Number of Indigenous Workers
January 2022	299
February 2022	317
March 2022	337
April 2022	354
May 2022	381
June 2022	407
July 2022	412
August 2022	407
September 2022	403
October 2022	413
November 2022	386
December 2022	312

The information shown has been provided by BC Hydro's on-site[34] construction and non-construction contractors and their subcontractors that have a contractual requirement to report on Indigenous inclusion in their workforce.

[34] On-site includes work performed on Site C dam site, transmission corridor, reservoir clearing area, public roadwork, worker accommodation and services.

Employees voluntarily self-declare their Indigenous status to their employer and there may be Indigenous employees that have chosen not to do so; therefore, the number of Indigenous employees may be higher than shown in Table D-4.

As with any construction project, the number of workers, and the proportion from any particular location, will vary month-to-month and reflects the seasonal nature of construction work. The number of workers will also vary as a contract's scope of work is completed by the contractor.

Women

In 2022, the number of women working for the Site C construction and non-construction contractors increased throughout the year peaking in October 2022, when there were 621 women working on site. This equates to 13% of the construction and non-construction workforce. The number of women was provided by on-site construction and non-construction contractors that have a contractual requirement to report on the number of women in their workforce. The following table shows the number of women working on site at the end of each quarter for the 2022 calendar year.

Table D-5 Number of Women Working for Site C Construction and Non-Construction Contractors

	Number of Women Working for Site C Construction and Non-Construction Contractors
March 31, 2022	447
June 30, 2022	551
September 30, 2022	589
December 31, 2022	459

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Appendix E

Technical Advisory Board and Independent Expert Reports

Site C Technical Review Panel
John W. France, P.E., D.GE, D.WRE and Kaare Hoeg, ScD, NAE
REPORT NO. 5
February 28, 2022

EXECUTIVE SUMMARY

This report presents an update to the Technical Review Panel's (Panel's) findings subsequent to Panel Reports Nos. 1, 2, 3, and 4, issued on January 22, 2021, February 15, 2021, April 6, 2021, and August 12, 2021, respectively.

The Panel's opinions expressed in the previous reports remain unchanged. The work associated with the right bank design enhancements, the design of the approach channel, and the earthfill dam has been progressing as anticipated at the time of preparation of Panel Report No. 4.

The right bank enhancement work has been proceeding well.

The pile installations for the spillway are nearing completion, which is expected in early March 2022. These pile installations have proceeded without significant issues. Pile installations in the powerhouse tailrace are scheduled to be completed in four phases, commencing in March 2022 and ending in March 2023. The last steel pile casing deliveries are expected by June 2022. With the last steel deliveries scheduled, and pile construction procedures now well established and understood, the Panel expects that the pile construction can be completed according to the current estimated schedule.

Design of the approach channel is nearly complete, and the approach channel excavation is scheduled for March 2022. The principal design work item remaining for the approach channel is the finalization of design of the center berm in Region 1, near the spillway. The Panel has provided some comments and questions on the Engineering Design Team (EDT's) preliminary analyses of that section of the center berm, and the Panel looks forward to further information on the analysis and design configuration. The foundation preparation and liner installation are scheduled to begin in March 2022 and be completed in June 2023, with an interruption in construction over the winter of 2022/2023. The estimated approach channel construction schedule seems reasonable, but the actual schedule will depend upon actual productivity, particularly for the liner installation. The appropriateness of the estimated schedule should become clearer by this summer.

Plinth and gallery construction and foundation grouting for the approach channel are scheduled to begin May 2022 and be completed in April 2023. As for the approach channel liner, the estimated schedule seems reasonable, but the actual schedule will depend on actual productivity. Neither the approach channel liner, nor the plinth/grouting are currently on the critical path.

The EDT is currently working toward completion of the final design of the right bank drainage features, with construction of these features scheduled to commence later this year.

A bottom slab and drainage gutter are being constructed in the invert of the right bank drainage tunnel (RBDT), which will provide access to complete improvements to the existing RBDT, in

light of several local shotcrete liner failures that previously have occurred in the tunnel. The RBDT must be made safe, as it is indispensable for the future drainage work.

There have been no changes to the earthfill embankment design since early 2021. Both foundation grouting and earthfill dam embankment placement progressed well in 2021. Reported foundation grouting records and earthfill dam quality control/quality assurance testing results indicate high-quality construction, meeting the design expectations.

The instrumentation at the earthfill dam is being carefully monitored, and this effort will need to continue during further embankment construction to verify that pore water pressures in the foundation remain within limits to ensure dam stability and that there are no unexpected movements.

Although the earthfill dam construction remains the critical path item for the project, the progress of earthfill construction to date suggests that it may be possible to begin Tunnel #2 conversion and reservoir filling in 2023, rather than 2024.

INTRODUCTION

At the request of BC Hydro, the Technical Review Panel (Panel) has prepared this report as an update to the Panel's previous Reports Nos. 1, 2, 3, and 4, dated January 22, 2021, February 15, 2021, April 6, 2021, and August 12, 2021, respectively.

Since August 12, 2021, the Panel has attended briefings to the Technical Advisory Board (TAB) by the EDT on September 10, October 29, and December 11, 2021 and January 7 and February 11, 2022, during which the EDT updated the TAB on activities related to the right bank enhancements, the approach channel, and the earthfill dam. The Panel has also reviewed project information provided by BC Hydro.

Based on the information provided to date, the Panel provides updated findings concerning the proposed right bank enhancements, including the approach channel, and the earthfill dam.

FINDINGS

Right Bank Enhancements

The Panel has been regularly updated on the various activities related to the right bank enhancements through the TAB briefings. In the Panel's opinion, the project team has been proceeding well with the implementation of the right bank enhancements. The principal activities completed since August 12 have been early contractor engagement, steel pile casing procurement, spillway pile construction, pile cap designs, advancements of designs and details for the approach channel, and excavations for the approach channel. Work remaining to be done includes finalization of designs for the tailrace pile caps downstream of the powerhouse, the

tailrace erosion slab, the approach channel, and the foundation drainage system. A detailed schedule has been established for the remaining activities.

Pile System Design – Subsequent to our Report No. 4, steel pile casings have been procured and most of the piles downstream of the spillway have been completed. The remaining spillway piles are expected to be completed by early March 2022. The work for construction of the tailrace piles is scheduled to begin in March 2022. This work will be completed in four phases, with the installation of all piles scheduled for completion by March 2023. The last steel pile casing deliveries are expected by June 2022. The EDT is still finalizing some details of the pile cap design for the powerhouse tailrace piles, but this should not affect the overall schedule.

The spillway pile construction to date has been proceeding without significant issues. Pile construction procedures are now well established and understood. Based on available information, the Panel expects that the pile construction can be completed according to the current estimated schedule.

Approach Channel – Final selection of materials and configuration of the approach channel and approach channel liner are nearly complete. The principal design work item remaining is the finalization of design of the center berm in Region 1, near the spillway. Final approach channel excavation began in October 2021 and is expected to be complete in March 2022. Approach channel foundation preparation and liner installation are scheduled to begin in March 2022 and July 2022, respectively, and continue into October 2022, when the work will be paused for winter. The foundation preparation and liner installation will resume in March 2023, with estimated completion in June 2023. The estimated approach channel construction schedule seems reasonable, but the actual schedule will depend upon actual productivity, particularly for the liner installation. The appropriateness of the estimated schedule should become clearer by this summer.

The Panel is pleased that the EDT adopted the horizontal liner configuration, as favored by the Panel in Report No. 4, rather than a configuration over the top of the center berm.

In the February 7, 2022 TAB briefing, the EDT presented its preliminary analyses for center berm configuration options for Region 1. The Panel has provided some comments and questions on those analyses and looks forward to further information on the analysis and design configuration. Instrumentation in the approach channel will include piezometers, inclinometers, vertical and joint extensometers, and temperature sensing cables to monitor and ensure the performance.

Right Bank Drainage Features – Plinth and gallery construction and foundation grouting for the approach channel are scheduled to begin May 2022 and be completed in April 2023. As for the approach channel liner, the estimated schedule seems reasonable, but the actual schedule will depend on actual productivity.

The schedule for neither the approach channel construction, nor the plinth and gallery work, is currently on the critical path.

The EDT is currently working toward completion of the final design of the right bank drainage features, with construction of these features scheduled to commence later this year.

A bottom slab and drainage gutter are being constructed in the invert of the RBDT. Completion of this slab will allow access for construction of improvements to the RBDT, which are required in light of several local shotcrete liner failures that previously have occurred in the tunnel. As the Panel has stated previously, the RBDT provides access for some of the contingency actions for the right abutment, if such contingency actions are found to be needed. The RBDT also provides access for observation of right bank drainage and for conveyance of collected drainage. As such, the RBDT must be made safe and functional, as it is indispensable for the future drainage work.

Earthfill Dam

There have been no significant changes in the earthfill dam design or stability analyses since Panel Report No. 2 issued on February 15, 2021. The Panel's findings remain basically unchanged from those stated in Report No. 2.

Foundation grouting for the earthfill dam progressed well in 2021. Reports of grouting results presented at the TAB briefings indicate an effective and high-quality grouting program.

Placement of earthfill also progressed well in 2021. Records of QC/QA test results for the embankment fill indicate that the fill is being placed and compacted in accordance with the project specifications.

The instrumentation at the earthfill dam is being carefully monitored, and this effort will need to continue during further embankment placement to verify that pore water pressures in the foundation remain within limits to provide stability and that there are no unexpected movements. Numerical modelling and analyses are being prepared to predict movements and pore pressures during construction and impoundment and to make comparisons with the observed performance.

The earthfill dam construction remains the critical path item for the project, but the progress of embankment placement to date suggests that it may be possible to begin Tunnel #2 conversion and reservoir filling in 2023, rather than 2024.

STATEMENT OF LIMITATIONS

The Panel functioned as independent reviewers of the methodologies used by the EDT for analysis and design of the right bank enhancements, the approach channel, and the earthfill dam, based on information provided by the EDT. Given the large amount of work being completed by the EDT and the associated voluminous documentation, it was not possible for the Panel to perform a detailed review of all of the material in the available time. In particular, the Panel has

not performed detailed checks of calculations and designs completed by the EDT. Such detailed checks are provided by the quality control/quality assurance programs for the Project. The Panel provides its opinions concerning the methods and approaches being used based on information provided by the Project Team. However, the ultimate decisions and responsibilities for the designs remains with BC Hydro.

Our review services were performed within the limits prescribed by BC Hydro in a manner consistent with the level of care and skill normally exercised in the current standard of professional engineering practice. No other representation to BC Hydro, expressed or implied, and no warranty or guarantee is included or intended.

Respectfully submitted,

John W. France

Kaare Hoeg

Site C Clean Energy Project

Technical Advisory Board Meeting No. 25

Report

(March 29 to April 1, 2022)

April 2022

Table of Contents

List of Attachments

1. Introduction

The 25th meeting of the Site C Technical Advisory Board (TAB) was convened via MS Teams video calls between March 29 and April 1, 2022. The meeting did not include a site visit. The primary objectives were to assess the progress and performance of the works, including construction performance of the Right Bank Foundation Enhancements (RBFE) and the earthfill dam. Attention was also given to further planning toward reservoir filling and operations. These technical discussions and updates focused primarily on the Main Civil Works (MCW). Also, some aspects associated with the GSS were discussed.

1.1 Meeting Organization

Since the last meeting, Meeting No. 24 in June 2021, the TAB has convened for a number of technical updates via MS Teams, which are recorded in the following documents:

- Notes from technical updates for the periods of July 16, August 5, September 10, October 29, December 10, 2021, and January 7, February 11 and March 7, 2022. These notes are filed on the TAB Sharepoint site (TAB Sharepoint Site) and are also available on request.
- The agendas and list of attendees for each of these technical updates are included in Attachment A.

The agenda for this meeting and the list of attendees are included as Attachment B.

A debriefing is scheduled to be conducted with members of the Project Team and Executives of BC Hydro (BCH), the Project Assurance Board and the Independent Engineers on April 19, 2022. This report was submitted to BC Hydro on April 11, 2022 and subsequently transmitted to the Project Assurance Board.

The TAB wishes to acknowledge the excellent overviews and presentations that it received. It recognizes the substantial effort that goes into the preparation for the TAB meeting and the technical update conference calls. It appreciates the frank and informative discussions that took place during the meetings.

2. Project Update

In the past months, the TAB has received a series of project updates that included the following:

- Status of major construction activities and schedule
- Project quality
- Performance of the diversion works
- Construction of the right bank foundation enhancements (RBFE)

- Construction of the Generating Stations and Spillways (GSS)
- Equipment and Balance of Plant (BoP) Updates

Detailed presentations built on the monthly meetings but concentrated at this meeting on the following:

- Overall Quality Assurance and Quality Control (QA/QC)
- Design of the RBFE with particular reference to the pile program
- Design of the RBFE with particular reference to the Approach Channel including drainage assessment and design
- Performance and construction of the earthfill dam with particular reference to the seepage assessment, pore pressure development and grouting
- GSS status and quality assessment
- Planning with respect to Reservoir Filling and Tunnel Conversion
- Long term monitoring following reservoir filling and development of an OMS manual

Progress Photo, March 2022

3. Technical Commentary

3.1 Overall QA/QC

The Overall Project Health is measured using a "Dashboard" concept, which considers and measures several aspects of the Project, such as Safety, Quality, Schedule, and Budget. Although there are many aspects of a project; Quality is one of the most significant factors to the Owner and life of the Project. The overall quality of this Project is Good and thus is designated as "Green", on the "Dashboard" for the Project.

As in the past, each of the quality aspects is being evaluated, in terms of engineering, manufacturing and construction. The TAB was advised that Quality Performance Indicators continue to be used and that they show that good quality is being obtained in a consistent manner. This is illustrated by the table below.

Quality Performance Indicators (March 01, 2022)

				Engineering	Manufacturing	Construction
●	Main Civil Works (MCW)	●	Main Dam (MND)	●	*N/A*	●
●	GSS Civil Works (GSS)	●	Generating Station (STA)	●	●	●
		●	Intake and Penstocks (IAP)	●	●	●
		●	Spillway (SPL)	●	●	●
●	GSS Equipment Supply	●	Hydromechanical (HME)	●	●	●
		●	Large Cranes (CRA)	●	●	●
●	Turbines-Generators (TG)			●	●	●
●	Balance of Plant Contract (BoP)	●	Balance of Plant Contract (BoP)	●	●	●
		●	Transformers (TXM)	●	●	●
		●	Generator terminal Equipment (GTE)	●	●	●
		●	AC Station Service (ACS)	●	●	●
●	Transmission & Substation	●	Transmission Lines (TRM)	●	●	●
●	Highway 29 Realignment (HWY)			●	●	●
			Legend:	●	*= No Risk to Quality*	
				●	*= Potential Risk to Quality*	
				●	*= Actual Risk to Quality*	

Another indicator of quality in the constructed Project is to monitor the number of non-conformance reports (NCRs). Most of the NCRs for the GSS work are focused on thermal control of concrete, reinforcing bar detailing and procedural processes. With recognition of these aspects, through the NCR process, these areas are being corrected so that better quality can be maintained in these areas in future. Both the GSS work and the MCW are also being monitored and controlled by reviewing and studying the range and distribution of the NCRs. Of the total of 989 NCRs raised to date, only 6% are open and only 4% are

open for longer than 90 days. This reflects improved quality control on the part of the contractors as well as diligent management by the designers.

The TAB recognizes that the cause of the earlier and steady decline in GSS concrete strengths has been determined and corrected. Consistency in fly ash seems to have been the problem. The TAB was advised that strengths have now stabilized and remain at acceptable levels. Given the high volumes of GSS concrete placement in 2021, and the fact that there is an additional several hundred thousand cubic meter volume to place in 2022, the TAB encourages continued vigilance over this aspect of concrete quality control.

The TAB also recognizes the details and quality aspects of the work associated with the RBFE pile installation. This pertains to all aspects of this work, namely from the purchase of the steel pipe, to the welding, to the drilling, to the tremie concreting and the installation of detailed instrumentation during construction and assurance of the procedures. The quality of the first 48 piles installed in the spillway area was good with only eight NCRs raised. This is commendable, given the complications of the work and the attention to NCR tracking. There are further detailed discussions regarding the pile enhancements in Section 3.2 below.

3.2 Design of the RBFE with particular reference to the pile program

In applying the Observational Method, the requirement to restrict movements on bedding shears, located below the depth of the shear key at the base of the buttresses, had emerged and, as a result of extensive studies, the installation of piles had been selected as the appropriate means for achieving this requirement.

3.2.1 Status and way forward

To date, a staggered arrangement of 48 piles, Type 1 (36 m depth) and Type 2 (46 m depth), drilled from the bottom of the stilling basin, has been constructed. The steel pipe-piles have been installed and have been filled and encased with concrete, completing the program for the spillway. At the powerhouse tailwater, the piles will be drilled from the top of the rock and subsequently a concrete pile cap will be cast connecting the piles to the powerhouse. The excavation to the working bench for the drilling operation is well advanced. No critical aspects for the general time schedule are anticipated.

3.2.2 Information gathered

A range of tools was used for collecting information on the characteristics of the materials in which the piles were installed, and to assist in assuring the quality of the piles:

- Collection and lithologic analysis of drill cuttings
- Photogrammetry of the pile walls

- Video and sonar scans of the pile walls
- Locating of seeps and assessing the rates of infiltration
- Checks of verticality and determination of the circumference of the drilled shafts
- QA/QC on welding and concrete details

The scans and surveys of the drilled shafts confirmed the cleanliness of the walls and of the bottom. They also served for determining the required volume of concrete for guaranteeing the proper encasement of the piles.

3.2.3 Findings

The surveys showed location, persistence and orientation of the discontinuities. The RCC displayed sub-vertical (shrinkage) cracks. In the rock, the bedding planes, steep joints dipping preferentially in an eastern direction and a few flat shears (dipping in a westerly direction) were recorded. Persistence of the discontinuities is limited, the joints and shears typically terminating at bedding planes. Seeps mainly discharge from the cracks in the RCC and from the contact between the RCC and the rock, reaching a flow rate of 25 l/min in one of the shafts (see Figure 1). In the rock, the seeps concentrate along bedding planes with flow rates mainly below 2 l/min. The contact zone between RCC and rock, and the permeability of the RCC, will have to be given particular attention in the hydrogeological model that is being developed for drainage control beneath the Approach Channel. This is recognized by the design team and was the purpose of the careful attention to water inflow conditions during the excavation, dewatering and installation of the piles.

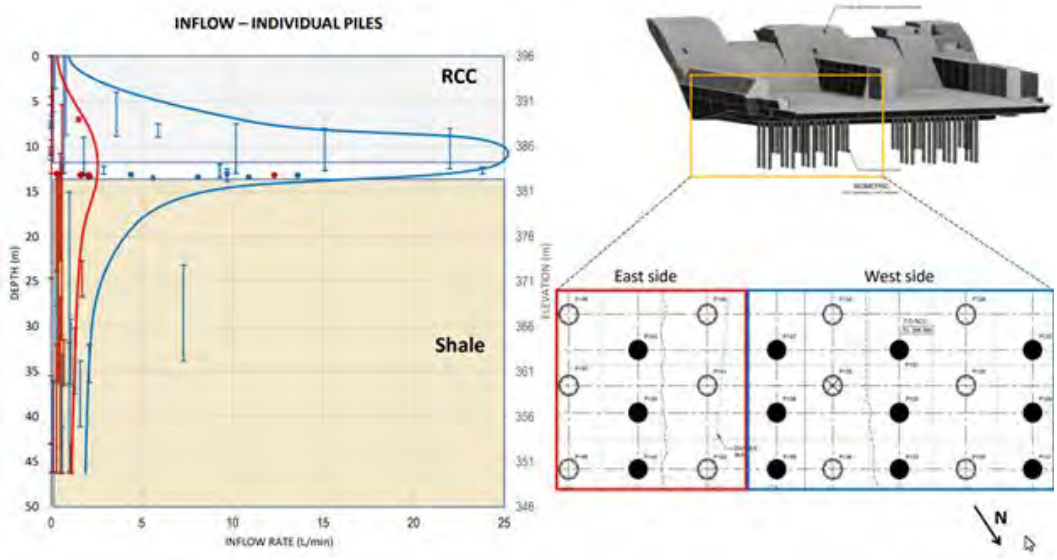

Figure 1. Location and flow rates observed in the shafts drilled from the right bay of the stilling basin (copied from BC Hydro presentation). The red diagrams refer to the piles on the east side and the blue to the west side.

3.2.4 Comparison with design base

The orientation of the discontinuities is consistent with displacement in the direction analyzed in the geotechnical model. Spacing and persistence of the discontinuities correspond to a rock mass quality somewhat more favorable than introduced in the model, according to observations in surface excavations. Thus, the findings support the conceptual model and place the modelling parameters on the safe side. In view of the observed geotechnical conditions and the quality of construction, the TAB is confident that the desired performance will be obtained.

3.2.5 Plan and schedule

Construction of the piles at the powerhouse can be completed within schedule and with satisfactory quality following the methodology developed at the stilling basin.

3.3 Design of the RBFE with particular reference to the Approach Channel including drainage assessment and design

The evolution of the design of the Approach Channel has received ongoing attention by the TAB for many months (see Attachment A). The items that have been discussed more recently were noted to establish status and the scheduling of documentation into IFC drawings, design basis memoranda and other documents related to quality assurance

and operations. The TAB is content that the resolution of design issues and documentation for construction and subsequent operations are all proceeding on schedule.

Over the past year or so, the observation of water seepage on the downstream face of the RCC originating from construction activities during RCC placement highlighted some high local permeabilities associated with the RCC structure, including its joint system. This is a common occurrence in such works. Although existing measures were included within the buttress design to protect against water ingress, additional measures have been considered to provide redundancy in protection against water ingress into the dam and core buttresses. A geomembrane lining system has been proposed as an extension of the Approach Channel lining system for the retaining elements of the RCC structures. This liner system will be consistent with the robust design of the Approach Channel liner. The TAB agrees that this is a prudent measure and accepts the design as proposed. The TAB recommends that since this membrane will be exposed to flowing ice and debris, the design team should confirm with the consultant specialist, CARPI, that the design details are sufficiently robust to address this issue.

Since the last overview meeting of the TAB, Meeting No. 24, progress has been made in developing a computational model that integrates the potential seepage beneath the Approach Channel with the detailed local geology and any defects assumed or discovered in the containment system. This is an important state-of-the-art tool that will assist in validating final design assumptions and long-term management of leakage from the Approach Channel. It is discussed in the meeting dated March 7, 2022, see Attachment A.

Additional design matters under discussion included the following: 1) a review of grouting procedures associated with the Approach Channel grout curtain, based on experience from the dam grout program, and 2) assumptions with regard to leakage to be managed beneath the Approach Channel and the formulation of the risk management criteria. There is ample time to address these issues.

3.4 Performance and construction of the earthfill dam with particular reference to the seepage assessment, pore pressure development and grouting

3.4.1 Construction monitoring of the earthfill dam to date

During the winter months the placement of the central core of the main embankment was on hold but substantial volumes of shale excavated from the Approach Channel were placed in the upstream zone. Temperature monitoring demonstrated a fully satisfactory performance of the insulating layer for the central core.

3.4.2 Status and plan for a mid April resumption of the earthfill dam construction

BC Hydro has updated the supply capacity of the borrow areas according to the past performance and adjustment to available resources. The supply can meet the demand for raising the dam to El. 445 m, i.e., above the level of the Approach Channel. If the dam is to be raised to a higher level in 2022, marginal shortages may arise but can be resolved by adjustments in the construction schedule/program. Beyond 2022, supply can meet the demand for the complete dam.

3.4.3 Detailed assessment of piezometric data

BC Hydro has assembled the geological information gathered from logging of the excavations and from the grouting works and the piezometer hydrographs. Further useful data were obtained from the records of pore pressure responses to the Zone 8 upstream fill placement and the temporary downstream stockpile. The objectives are to refine the geologic features incorporated in the FLAC 3D predictive model of the dam and its foundations, and to validate the input parameters in the model. In this relation it was of interest to observe the reaction of the piezometric regime to the dewatering operations of the contractor.

With the initially operated pump system, the water levels in the sumps were dropped to El. 400 m, approximately, collecting up to 800 l/min at the downstream side and 250 l/min on the upstream side of the core trench. With the river at around El. 415 m this is a modest seepage rate, attesting to the satisfactory performance of the cofferdams. This condition is also reflected in the piezometer response, for instance at Section B where the levels upstream of the cut-off synchronize with the river level, whereas the downstream piezometer stays about 15 m lower with oscillations in the centimetre range. Geohydraulic gradients downstream of the cofferdams display significant upward components, also indicative of the efficiency of the cut-off of the cofferdams.

With the current dewatering operation, a difference of 6 m in piezometer head across the core trench has developed showing the effect of the grout curtain. The efficiency of the grout curtain will be tested during construction this year.

Normalized pore pressures monitored under the downstream stockpile rose to only about 0.2 and dissipated rapidly, which is a more favorable performance than observed in earlier measurements. BC Hydro attributes this to the drainage influence of the cross-cutting shears such as the Little Ricky shear, and the overlying granular alluvium.

3.4.4 Grouting status

A grout curtain is an essentially impervious element installed by drilling and injection of cement slurry (grout) beneath a dam to control downstream seepage and pore pressure. Final grouting activities at Site C have continued in the area of the core buttress (Zone

11) and up to approximately El. 440 m in the left abutment core trench (Zone 1). The grout curtain combines a deep center line and accompanying upstream and downstream lines extending to 30 m depth. The holes were drilled from a ramp, angled at 60° inclination into the slope. Grout takes were generally insignificant but locally exceeded 100kg/m, apparently in places where bedding planes or relaxation joints were intercepted. Some grout may also have been lost to the drainage wells inside the abutment. Following completion of the curtain holes, the ramp was taken down and concurrently five check holes have been drilled, tested and grouted. Four holes were inclined 10° from the horizontal and the fifth check hole was vertical.

In a few places where the curtain holes had only insignificant grout takes, the take in the check holes exceeded 100 kg/m. The shallow inclination in conjunction with the drilling method (rotational core drilling versus down-the-hole percussion), the influence of the water pressure tests (Lugeon) performed prior to the grouting and the circumstance that the check holes are located 3 m upstream of the main curtain holes, may have contributed to these isolated grout takes. Nevertheless, traces of grout were encountered in four of the five check holes.

The high water absorption in the check holes at the top of the foundation rock can be attributed to the low stress levels remaining after removal of the ramp. The TAB agrees with the additional check holes to be drilled at a steeper inclination to obtain confinement.

The TAB is content that the curtain grouting has met specifications and served its purpose but there is merit in considering additional seepage control on the left abutment beyond the drainage measures already installed. Favorable elements are provided by the design of the dam. There is an array of drain holes downstream of the core that will control pore pressures possibly generated by a pervious zone at the base of the core. A glass fiber will detect seepage flows if they should become significant. Eventually, if the monitoring should suggest a need for remedial action, complementary treatment can be done from the drainage adit extending inside the abutment below the core.

Nonetheless, additional measures which include flaring the core in the higher areas of the left abutment and an upstream till blanket at the current elevation should be evaluated. The TAB understands that the design team is exploring these measures and looks forward to its recommendation.

Based on the experience in grouting to date, the TAB recommends that the design team review the proposed criteria and sequencing for the grout curtain planned beneath the Approach Channel. This should not affect contractual circumstances but is intended to ensure recognition and sensitivity to the additional geological information that will be available and to make use of check hole validation early in the acceptance process.

3.5 GSS status and quality assessment

The GSS Works are proceeding well in terms of both program and quality. Approximately 200,000 cubic metres of concrete were placed last year, and a similar volume is envisaged to be placed this year. Work is being undertaken in all areas, i.e., the powerhouse, the power intakes and throughout the spillway complex.

Most concreting now being carried out is repetitive, suggesting there should be no surprises. For example, while much remains to do on Intake and Penstock No 4, the equivalent works on Nos 1, 2, 3 and 6 are virtually complete. This is illustrated on the figure below, which is taken from the Building Information Model (BIM) being used by BC Hydro to manage overall construction sequences and which will itself form a valuable record of work done, and construction dates achieved.

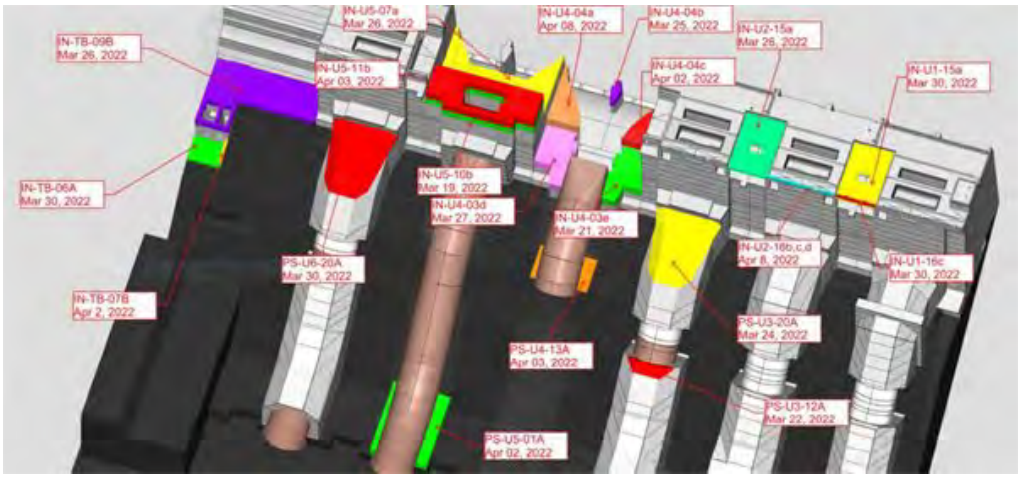

Figure 2. Construction sequences planned for the Power Intakes during April 2022

One new area underway is the sloping downstream hydraulic surfaces of the spillway headworks. Following some trials of alternative placement methods, final construction of these has now started using top shutters. Preliminary indications are that this will achieve the surface and structural qualities required.

Overall concrete quality is being monitored both in terms of achieved strengths and temperature control. In the latter case the maximum temperature differential between inner and outer zones of a concrete pour is the key indicator. While some non-conformities occur, the records indicate a very good compliance with specification requirements. The same is true of achieved concrete strengths, see also associated discussions in Section 3.1.

Steel erection of the penstocks and spiral casings is also being carried out to a good standard with independent verification of weld quality. However, one issue has emerged regarding the upper flexible joints that are sited on the penstocks immediately downstream of the intakes. At present, it has not proved possible to obtain the required watertightness of the flexible joint at this connection. The issue is not yet affecting program but will need to be resolved in the upcoming months. The TAB was assured that the relevant issues are now being addressed with the contractors concerned. The TAB recognizes that contingency measures are being evaluated in the event that a solution to the matter proves elusive and/or is delayed.

3.6 Planning with respect to Reservoir Filling and Tunnel Conversion

Focus is now being applied to reservoir filling and the associated closures of the current river diversion works.

Put simply the existing plan is as follows (see Figure 3):

- Tunnel Conversion: Diversion Tunnel 2 will be closed and fitted with internal orifices to throttle flows. This work is scheduled to take 2 months. During this time, diversion flows will pass only through Tunnel 1.
- Reservoir Filling: once Tunnel 2 is reopened, both Tunnel 1 and newly throttled Tunnel 2 can be operated.
- Tunnel 1 will then be closed with all flows then passing through the newly throttled Tunnel 2. The orifices in Tunnel 2 will limit capacity and over the course of 2 to 4 weeks, and upstream water levels will rise from El. 425 m to El. 440 m at which time they will spill into the Approach Channel. Downstream river flow will then be passed through the spillway low level outlets. Tunnel 2 will then be closed, and upstream water levels will continue to rise but at a slower rate due to control using the low level outlets and Williston reservoir. The figure below illustrates the reservoir rising into the Approach Channel and being controlled by the low level outlets.
- Once upstream water levels reach El. 452 m, outflows can be controlled by the spillway radial gates. Water levels will be held at between El. +452 m to El. 454 m while the performance of the works is evaluated through observation and monitoring.
- Thereafter the reservoir can be allowed to rise more slowly with increased flexibility, to the full supply level of El. 461.80 m using the spillway gates to control the process and limit rates of rise.

The timing of this will be dependent on various factors, some calendar based. Upstream inflows will be partly dependent on the storage capacity at Williston reservoir and power

generation demands. Environmental factors will include addressing requirements of migratory birds and other considerations. At the start of winter, sufficient outflows are required to control the downstream ice front. Dam safety considerations constrain reservoir filling rates above El. 440 m. The proposed reservoir filling rates also take into account that the Approach Channel will be tested by pumping water into it to El. 438 m in advance of reservoir filling.

BC Hydro has carefully balanced and addressed these concerns. The best timing of the initial closure of Tunnel 2 is foreseen as early July. This should allow final reservoir impoundment to full supply level four to five months later in December, in readiness for releases sufficient to control any downstream winter ice front. These timings are optimal with little float.

Filling is currently programmed to take place in 2024, but with 2023 as a possibility, provided the main dam and all necessary GSS works are sufficiently complete. The four to five-month period from initial tunnel closure to full supply level also assumes that no unforeseen delays arise from monitoring or operational anomalies.

Whether or not an early closure in 2023 will be possible should become apparent over the course of the next 12 months. The main benefit of early reservoir impoundment is usually early revenue from power generation and a shorter diversion period. This will depend on predicted dates for machine commissioning, and the TAB recommends that these should be included in any overall assessment of options.

The TAB was pleased to see a contingency scenario being progressed. This contingency is a result of the calendar date restrictions on reservoir filling noted above. It involves installing the orifices on Tunnel 2 but then leaving both Tunnels 1 and 2 operating over the winter and through the following year freshet until a point when requirements are satisfied for reservoir filling to proceed.

There are pros and cons to such a scenario. Considerations include the prolonged adoption of flow conditions, both in the tunnel and in the downstream outlet channel, that were previously seen as temporary. However previous and current model testing will enable informed decisions to be made on both aspects. Other potential advantages include greater timing flexibility for final filling earlier the following year. The TAB compliments the design team on their assessment of the filling options.

Figure 3. The image on the left shows the start of reservoir filling with water flowing through the converted Tunnel 2 after the closure of Tunnel 1 at El. 425 m. The image on the right shows flow of water into the Approach Channel.

3.7 Long term monitoring following reservoir filling and development of an OMS manual

The TAB received a summary of the Reservoir Slope Monitoring Plan and its ongoing work. The Plan is being undertaken by BGC, who have a high level of expertise in ground hazard assessment using both remote and instrumentation-based techniques as applied to other industrial undertakings, such as pipelines. This is a rapidly evolving area with respect to technology and data management, and the TAB is pleased that it is in such capable hands.

The objectives of the Plan so far have focused on ground movements that might affect dam operations, other infrastructure, public safety and environmental considerations, such as erosion. It is generally concentrated on ground response within the impact boundaries associated with the Project approval.

The TAB was informed of advances in understanding the accuracy of various remote sensing techniques (e.g., InSAR), new site instrument installations to improve monitoring at specific locations and field inspections at selected sites. Going forward, plans are being developed for enhanced surveillance during reservoir filling (2023), post impoundment monitoring (to 2026) and a long-term monitoring plan thereafter. The TAB is content with the execution of the monitoring plan to date and expects that this will continue into the future.

The TAB is of the view that post reservoir filling, ground response to the reservoir should be assessed over a larger area as part of the Operations, Maintenance, and Surveillance (OMS) process. The TAB was briefed on the organization and supporting documentation for OMS, under the guidance of the Director of Dam Safety and senses that it handily embraces an expanded monitoring program. This expanded program should address past or potential ground instability beyond the footprint of the Project, changes in ground

response in general and migration of groundwater away from the Project and around the dam, such as might occur in ancestral channels of the Peace River. The TAB would welcome a discussion on such a proposal at some convenient time in the future.

4. Additional Commentary

4.1 Tracking Log

The TAB has been informed that the Tracking Log is being updated and maintained. Itwill be transmitted to the TAB and reviewed in the near future.

5. Future Meetings

The TAB recommends that the next TAB meeting be virtual and the date to be determined. In addition, TAB update teleconferences will convene as follows: May 3, June 9, July 6, August 3, and August 31, 2022. Other conference calls will be scheduled as required.

Respectfully submitted,

Dr. Norbert R. Morgenstern

Dr. Wynfrith Riemer

Mr. Joseph L. Ehasz, P.E.

Dr. Peter J. Mason

Attachment A – Technical Update Conference Calls Agendas and List of Attendees

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
July 16, 2021

Location: Conference Call and Screenshare

AGENDA

July 16, 2021

1. Project Update [redacted]
2. Approach Channel – Design Update
   a) Design and Construction Plan [redacted]
   b) Region 1 and 2 Update [redacted]
3. Earthfill Dam
   a) Grouting Update [redacted]nson
   b) Foundation Preparation and Fill Placement Update [redacted]
   c) LB Colluvium Berm [redacted]rtin
4. RCC Dam and Core Buttress – Update [redacted]
5. Right Bank Drainage Update [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Peter Mason, Wynfrith Riemer
PAB Advisor: Kaare Høeg
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
August 05, 2021

Location: Conference Call and Screenshare

AGENDA

August 05, 2021

1. Project Update [redacted]
2. Approach Channel
   a) Introduction [redacted]
   b) Durability and Longevity of GCL and Cold Weather Requirements [redacted]
3. Earthfill Dam
   a) Foundation Preparation – Update [redacted]
   b) 3D Modelling Update [redacted]
   c) Instrumentation Update [redacted]
4. Right Bank Foundation – Drainage Update [redacted]
5. Right Bank Drainage Tunnel
   a) Review of Mapping [redacted]
   b) Review of Failures Occurred during Construction [redacted]
   c) Work Plan for Assessment of As-built Condition [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Peter Mason, Wynfrith Riemer
PAB Advisors: Kaare Høeg, John France
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
September 10, 2021

Location: Conference Call and Screenshare

AGENDA

September 10, 2021

1. Project Update [redacted]
2. Approach Channel Sequence of Construction and Design Update [redacted]
3. Earthfill Dam
   a) Earthfill Dam Construction and QC/QA Update [redacted]
   b) Instrumentation Update [redacted]
   c) Update on Downstream Laydown Area and Plan for Stability Measures [redacted]
4. Dam and Core Buttress RCC Construction Update [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Peter Mason, Wynfrith Riemer

PAB Advisor: Kaare Høeg

Other: [redacted]

Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
October 29, 2021

Location: Conference Call and Screenshare

AGENDA

October 29, 2021

1. Project Update [redacted]
2. Approach Channel – Design Update [redacted]
3. Earthfill Dam
   a) Construction and QC/QA Update [redacted]
   b) Grouting Update [redacted]
   c) Instrumentation Update [redacted]
4. Dam and Core Buttress – Construction Update [redacted]
5. Piling in Spillway Stilling Basin Area – Construction Update [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Peter Mason, Wynfrith Riemer
PAB Advisor: Kaare Høeg
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
Dec 10, 2021

Location: Conference Call and Screenshare

AGENDA

Dec 10, 2021

8am to noon (PST)

Will open MS Team Meeting at 745am so we can start at 8am

1. Project Update [redacted]
2. GSS Update [redacted]
3. Grouting Update [redacted]
4. Piling in Spillway Stilling Basin Area [redacted]
5. RCC Buttress Monitoring Update [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Peter Mason, Wynfrith Riemer
PAB Advisor: Kaare Høeg, John France
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
Jan 7, 2022

Location: Conference Call and Screenshare

AGENDA

January 7, 2022

1. Project Update [redacted]
2. Approach Channel Design Update
   a) Excavation, Backfill and Liner System [redacted]
   b) Erosion Protection Stabs [redacted]
   c) Centre Berm [redacted]
   d) Grouting Gallery [redacted]
   e) Grouting Plinths [redacted]
   f) Grouting [redacted]
   g) Instrumentation [redacted]
   h) Design Work Plan [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer
PAB Advisors: Kaare Høeg, John France
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
Feb 11, 2022

Location: Conference Call and Screenshare

AGENDA

Feb 11, 2022

1. Project Update [redacted]
2. RBFE Execution Status (all scopes) [redacted]
3. Approach Channel
   a) Centre Berm in Region 1 [redacted]
   b) Questions from TAB:
      - Centre Berm Invert Slab – Distribution of Contraction Joints [redacted]
      - Uplift during Drawdown
      - 3D Seepage Model (Recording Sent Separately) [redacted]
   c) Drains from RCC Drainage Gallery to RBDT [redacted]
4. Earthfill Dam
   a) Questions from the TAB
      - Instrumentation Update [redacted]
      - 3D Deformation Modelling – Performance Base Design (Deferred) [redacted]
5. RCC Buttress – Investigation Program (Deferred) [redacted]

LIST OF ATTENDEES

TAB: Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
PAB Advisors: Kaare Høeg, John France
Other: [redacted]
Design Team: [redacted]

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
Mar 07, 2022

Location: Conference Call and Screenshare

AGENDA

Mar 7, 2022

1. Approach Channel 3D Seepage Modelling [redacted]
2. Earthfill Dam – Instrumentation response to Zone 8 Placement [redacted]

LIST OF ATTENDEES

TAB:	Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
PAB Advisors:	Kaare Høeg, John France
Other:	[redacted]
Design Team:	[redacted]

Attachment B – Meeting Agenda and List of Attendees

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
March 29 to April 1, 2022

Location: Conference Call and Screenshare

AGENDA

Mar 29, 2022 (TAB, John France, Kaare Hoeg)

1. Project Update [redacted]
2. Reservoir Filling [redacted]
3. Earthfill Dam Grouting Update [redacted]
4. Upstream Liner Extensions for RCC Buttress, Intake and Spillway Structures [redacted]
5. Approach Channel placeholder

March 30, 2022 (TAB)

1. GSS Update [redacted]
2. Project Quality [redacted]
3. TAB report preparation

March 31, 2022 (TAB)

1. [redacted] update on reservoir slopes [redacted]
2. Discussion
3. TAB report preparation

April 1, 2022 (TAB)

1. Discussion
2. TAB report preparation

BC Hydro
Power smart

Site C Clean Energy Project
Technical Advisory Board
Conference Call
March 29 to April 1, 2022

Location: Conference Call and Screenshare

LIST OF ATTENDEES

March 29, 2022

TAB:	Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
PAB Advisor:	Kaare Høeg
Other:	[redacted]
Design Team:	[redacted]

March 30, 2022

TAB:	Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
Other:	[redacted]
Design Team:	[redacted]

March 31, 2022

TAB:	Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
Other:	[redacted]
Design Team:	[redacted]

April 1, 2022

TAB:	Norbert Morgenstern, Joe Ehasz, Wynfrith Riemer, Peter Mason
Design Team:	[redacted]

Site C Technical Review Panel
John W. France, P.E., D.GE, D.WRE and Kaare Hoeg, ScD, NAE
REPORT NO. 6
September 23, 2022

EXECUTIVE SUMMARY

This report presents an update to the Technical Review Panel's (Panel's) findings subsequent to Panel Reports Nos. 1, 2, 3, 4, and 5, issued on January 22, 2021, February 15, 2021, April 6, 2021, August 12, 2021, and February 28, 2022, respectively.

The Panel's opinions expressed in the previous reports remain unchanged. The work associated with the right bank design enhancements, the approach channel, and the earthfill dam has generally been progressing as anticipated at the time of preparation of Panel Report No. 5.

The right bank enhancement work has been generally proceeding well, but with some schedule delays that do not threaten reservoir filling by 2024.

The pile installations for the spillway with pile heads anchored inside the roller compacted concrete (RCC) slab under the stilling basin, have been completed. These pile installations proceeded without significant issues. Pile and pile cap installations in the powerhouse tailrace are currently about three months behind schedule, principally because of constructability issues associated with the locations of these piles. Eight of a total of 48 tailrace piles, have been completed. The constructability issues have now been resolved and the first eight tailrace piles were installed without significant issues and at a rate of construction consistent with the estimated schedule. Efforts are being made to recover some of the lost schedule time, but, even if the three months schedule delay is not recovered, the piles should be completed by spring of 2023, and they are not on the critical path for the project.

Final design of the approach channel has been completed and construction has advanced significantly since February 2022. Excavation for the approach channel has been completed except for a relatively small area near the south end that cannot be excavated until an access road is relocated. Center berm and grout plinth construction has begun, and deployments of liner systems have also started. Foundation grouting has not yet started but is expected to commence soon. At the time of the Panel's last previous report, it had been estimated that liner construction would be completed in June 2023. Some of the approach channel construction activities, such as mud slab-foundation placement and structural concrete, have lagged behind the baseline schedule, principally because of increased volumes of excavation and concrete infill needed to address irregular geometries associated with shears encountered in the approach channel. Efforts are being made by the project team to make up lost schedule time, and the team appears to be appropriately focused on the approach channel construction, which is quite complicated with several concurrent activities.

In the Panel's opinion, the schedule delays experienced to date in the approach channel construction do not threaten the completion of work required for a 2024 reservoir filling. Completion of the approach channel in 2023 is probable however an early winter or late spring coupled with construction delays may push the approach channel completion past the favorable

reservoir filling window. Approach channel construction, rather than earthfill dam construction, may now, or in the near future, be on the critical path for the project. This is in large part because of the excellent production in earthfill dam construction.

Construction of right bank drainage holes has commenced.

Work remains to be done on the improvements to the right bank drainage tunnel (RBDT). The project team indicates that this work will commence later this year. As the Panel has stated previously, the RBDT must be made safe and functional, as it is indispensable for the future drainage work. Improvements to the RBDT could be more difficult to construct if the work is not completed before the reservoir is filled.

There have been no significant changes to the earthfill embankment design since early 2021. Both foundation grouting and earthfill dam embankment placement progressed very well in 2021 and 2022. Reported foundation grouting records and earthfill dam quality control/quality assurance testing results indicate high-quality construction, meeting the design expectations.

The instrumentation at the earthfill dam is being carefully monitored, and thus far does not indicate any data of concern. This effort will need to continue during further embankment construction to verify that pore water pressures in the foundation remain within limits to ensure dam stability and that there are no unexpected movements.

Earthfill dam placement is on a trajectory to equal or exceed the target elevation for the 2022 campaign, such that earthfill dam construction may no longer be on the critical path for the project. There is high confidence in completion of the earthfill dam in 2023.

INTRODUCTION

At the request of BC Hydro, the Technical Review Panel (Panel) has prepared this report as an update to the Panel's previous Reports Nos. 1, 2, 3, 4, and 5, dated January 22, 2021, February 15, 2021, April 6, 2021, August 12, 2021, and February 28, 2022, respectively.

Since February 28, 2022, the Panel has attended virtual briefings to the Technical Advisory Board (TAB) by the Engineering Design Team (EDT) on March 7, March 29, May 3, June 9, July 6, and August 3, 2021, during which the EDT updated the TAB on activities related to the right bank enhancements, the approach channel, and the earthfill dam. The Panel has also reviewed project information provided by BC Hydro and attended virtual meetings with the EDT on April 6 and August 31, 2022.

Based on the information provided to date, the Panel provides updated findings concerning the proposed right bank enhancements, including the approach channel, and the earthfill dam.

Site C Technical Review Panel
John W. France, P.E., D.GE, D.WRE and Kaare Hoeg, ScD, NAE
REPORT NO. 6
September 23, 2022

FINDINGS

Right Bank Enhancements

The Panel has been regularly updated on the various activities related to the right bank enhancements through the TAB briefings and separate briefings to the Panel. In the Panel's opinion, the project team has been proceeding well with the implementation of the right bank enhancements. The principal activities completed or commenced since February 28, 2022 have been spillway pile construction, tailrace pile and pile cap construction, completion of design for the approach channel, excavations for the approach channel, grout plinth construction, and liner installation. Work remaining to be done includes completion of construction of the tailrace piles and pile caps, construction of the tailrace erosion slabs, completion of the approach channel, and completion of the foundation drainage system, including improvements to the right bank drainage tunnel (RBDT). A detailed schedule has been established for the remaining activities. The schedule indicates a high likelihood that all project elements can be completed for reservoir filling in 2024, as currently planned, and the possibility that the work can be completed to allow for the initiation of reservoir filling in 2023.

Since the Panel's last report, it has become clear that the approach channel construction now has the potential to become the critical path for completion, rather than the earthfill embankment. The project team is heavily focused on the approach channel construction and ways to limit schedule delays in its construction.

Pile System – Subsequent to our Report No. 5, all of the piles in the spillway have been completed. This work was completed without significant issues.

The work for construction of the tailrace piles has advanced. Eight of a total of 48 tailrace piles, or about 17 percent, have been completed. The pile cap for the first eight piles has also been constructed. The work on the tailrace piles was delayed by constructability challenges related to the locations of the piles. Rather than beginning in March 2022, as originally planned, tailrace pile construction did not begin until June 2022. The constructability issues have now been resolved and the first eight tailrace piles were installed without significant issues and at a rate of construction consistent with the estimated schedule. It was previously estimated that the tailrace piles would be completed by February 2023. With the current approximately three-month delay, the piles would still be completed by May 2023, and efforts are being made to recover some the lost schedule time.

Approach Channel – Final design of the approach channel has been completed and construction has advanced significantly since February 2022. Excavation for the approach channel has been completed except for a relatively small area near the south end that cannot be excavated until an access road is relocated. Center berm and grout plinth construction has begun, and deployments of liner systems have also started. Foundation grouting has not yet started but is expected to commence soon. Foundation preparation and liner installation will be paused when the ground

freezes for the winter. The foundation preparation and liner installation will resume in March 2023.

At the time of the Panel's last previous report (February 28, 2022), it had been estimated that liner installation would be completed in June 2023. Some of the approach channel construction activities, such as mud slab-foundation placement and structural concrete, have lagged behind the baseline schedule. One of the principal causes for the schedule delays has been increased volumes of excavation and concrete infill needed to address irregular geometries associated with shears encountered in the approach channel.

Efforts are being made by the project team to make up lost schedule, and the team appears to be appropriately focused on the approach channel construction, which has multiple concurrent activities that interact with each other.

As noted above, approach channel construction has the potential to be on the critical path for the project. This is in large part because of the excellent production in earthfill dam construction, as discussed further below. In the Panel's opinion, the schedule delays experienced to date in the approach channel construction, partly caused by weather challenges during April and May, do not threaten reservoir filling in 2024.

Right Bank Drainage Features – Construction of right bank drainage holes has commenced.

Work remains to be done on the improvements to the RBDT. The project team indicates that this work will commence later this year. As the Panel has stated previously, the RBDT provides access for some of the contingency actions for the right abutment, if such contingency actions are found to be needed. The RBDT also provides access for observation of right bank drainage and for conveyance of collected drainage. As such, the RBDT must be made safe and functional, as it is indispensable for the future drainage work. Improvements to the RBDT could be more difficult to construct if the remedial work is not completed before the reservoir is filled.

Earthfill Dam

There have been no significant changes in the earthfill dam design or stability analyses since Panel Report No. 2 issued on February 15, 2021. The Panel's findings regarding design and analysis remain basically unchanged from those stated in Report No. 2.

Foundation grouting for the earthfill dam progressed well in 2021 and again in 2022. Reports of grouting results presented at the TAB briefings indicate an effective and high-quality grouting program.

Placement of earthfill also progressed well in 2021 and 2022. Records of QC/QA test results for the embankment fill indicate that the fill is being placed and compacted in accordance with the project specifications.

The instrumentation at the earthfill dam is being carefully monitored, and thus far does not indicate any data of concern. This effort will need to continue during further embankment placement to verify that pore water pressures in the foundation remain within limits to ensure dam stability and that there are no unexpected movements. Numerical modelling and analyses are being prepared to predict movements and pore pressures during construction and impoundment and to make comparisons with the observed performance.

The earthfill dam construction is likely no longer the critical path item for the project construction schedule, which is a change from February 28, 2022. By the end of August almost 70 percent of the total embankment volume had been placed, and fill placement is on a trajectory to equal or exceed the target elevation for the 2022 campaign. There is high confidence in completion of the earthfill dam in 2023.

STATEMENT OF LIMITATIONS

The Panel functioned as independent reviewers of the methodologies used by the EDT for analysis and design of the right bank enhancements, the approach channel, and the earthfill dam, based on information provided by the EDT. Given the large amount of work being completed by the EDT and the associated voluminous documentation, it was not possible for the Panel to perform a detailed review of all of the material in the available time. In particular, the Panel has not performed detailed checks of calculations and designs completed by the EDT. Such detailed checks are provided by the quality control/quality assurance programs for the Project. The Panel provides its opinions concerning the methods and approaches being used based on information provided by the Project Team. However, the ultimate decisions and responsibilities for the designs remains with BC Hydro.

Our review services were performed within the limits prescribed by BC Hydro in a manner consistent with the level of care and skill normally exercised in the current standard of professional engineering practice. No other representation to BC Hydro, expressed or implied, and no warranty or guarantee is included or intended.

Respectfully submitted,

John W. France

Kaare Hoeg

BC Hydro
Power smart

Site C Clean Energy Project

Annual Progress Report No. 7
(Combined with Quarterly Progress Report No. 28)

Appendix F

Environmental Management Plans and Report

As a result of the Environmental Assessment Certificate and the Federal Decision Statement conditions, the Site C Clean Energy Project is required to submit a number of plans and reports to various agencies. These plans and reports are posted on the Site C Project website at www.sitecproject.com as they are issued. This appendix contains a list of all issued documents as of December 31, 2022.

Table F-1 Mitigation, Management and Monitoring Plans

Aboriginal Plant Use Mitigation Plan	https://www.sitecproject.com/sites/default/files/Aboriginal_Plant_Use_Mitigation_Plan.pdf
Aboriginal Training and Inclusion Plan	https://www.sitecproject.com/sites/default/files/Aboriginal_Training_and_Inclusion_Plan.pdf
Accidents and Malfunctions Plan	https://www.sitecproject.com/sites/default/files/Accidents_and_Malfunctions_Plan.pdf
Agricultural Mitigation and Compensation Plan	https://www.sitecproject.com/sites/default/files/site-c-agricultural-mitigation-compensation-plan-final-september-2017.pdf
Agricultural Mitigation and Compensation Plan Framework	https://www.sitecproject.com/sites/default/files/SiteC-Agriculture-Mitigation-Compensation-Framework.pdf
Agricultural Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Agricultural%20Monitoring%20and%20Follow-up%20Program.pdf
Business Participation Plan	https://www.sitecproject.com/sites/default/files/BPP-20150605.pdf
Construction Environmental Management Plan	https://www.sitecproject.com/sites/default/files/construction-environmental-management-plan-CEMP-rev-11_0.pdf
Construction Safety Management Plan	https://www.sitecproject.com/sites/default/files/Construction%20Safety%20Management%20Plan.pdf
Cultural Resources Mitigation Plan	https://www.sitecproject.com/sites/default/files/Cultural_Resources_Mitigation_Plan_0.pdf
Del Rio Pit Development Plan	https://www.sitecproject.com/sites/default/files/Del%20Rio%20Pit%20Development%20Plan.pdf
Emergency Services Plan	https://www.sitecproject.com/sites/default/files/Emergency_Services_Plan.pdf
Fisheries and Aquatic Habitat Management Plan	https://www.sitecproject.com/sites/default/files/Fisheries_and_Aquatic_Habitat_Management_Plan.pdf
Fisheries and Aquatic Habitat Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Fisheries-and-Aquatic-Habitat-Monitoring-and-Follow-up-Program.pdf
Health Care Services Plan	https://www.sitecproject.com/sites/default/files/Health_Care_Services_Plan.pdf

Heritage Resources Management Plan	https://www.sitecproject.com/sites/default/files/Heritage_Resources_Management_Plan_0.pdf
Housing Plan and Housing Monitoring and Follow-up Program	https://www.sitecproject.com/sites/default/files/Housing-Plan-Housing-Monitoring-and-Follow-up-Program-Rev2.pdf
Labour and Training Plan	https://www.sitecproject.com/sites/default/files/Labour_and_Training_Plan.pdf
Outdoor Recreation Mitigation Plan	https://www.sitecproject.com/sites/default/files/site-c-outdoor-recreation-mitigation-plan_0.pdf
Recreation Program	https://www.sitecproject.com/sites/default/files/Recreation%20Program.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan	https://www.sitecproject.com/sites/default/files/Veg_and_Wildlife_Mit_and_Mon_Plan.pdf
Vegetation Clearing and Debris Management Plan	https://www.sitecproject.com/sites/default/files/Veg_Clearing_and_Debris_Mgmt_Plan.pdf
West Pine Quarry Development Plan	https://www.sitecproject.com/sites/default/files/West_Pine_Quarry_Development_Plan.pdf
Wuthrich Quarry Development Plan	https://www.sitecproject.com/sites/default/files/Wuthrich_Quarry_Development_Plan.pdf
85th Avenue Industrial Lands Detailed Operations Plan	https://www.sitecproject.com/sites/default/files/Final-Detailed-Operations-Plan-85th%20Ave%20Industrial%20Lands-20161122.pdf

1 **Table E-2 Site C Project Reports**

Aboriginal Group Communication Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Group-Communication-Plan-2015-2016-20160705.pdf
Aboriginal Group Communication Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-group-communications-plan-2016-2017-annual-report.pdf
Aboriginal Group Communication Plan 2017-2018 Annual Report	https://www.sitecproject.com/sites/default/files/Aboriginal-Group-Communications-Plan-2017-2018-Annual-Report.pdf
Aboriginal Group Communication Plan 2018-2019 Annual Report	http://sitecproject.com/sites/default/files/aboriginal-group-communications-plan-2018-2019-annual-report.pdf
Aboriginal Group Communication Plan 2019-2020 Annual Report	http://sitecproject.com/sites/default/files/Aboriginal%20Group%20Communications%20Plan%202019-2020%20Annual%20Report.pdf
Aboriginal Group Communication Plan 2020-2021 Annual Report	Aboriginal Group Communications Plan 2020-2021 Annual Report.pdf
Aboriginal Group Communication Plan 2021-2022 Annual Report	aboriginal-group-communications-plan-2021-2022-annual-report.pdf
Aboriginal Plant Use Mitigation Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Plant-Use-Mitigation-Plan-2015-2016-20160705.pdf
Aboriginal Plant Use Mitigation Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-plant-use-mitigation-plan-2016-2017-annual-report.pdf

Aboriginal Plant Use Mitigation Plan 2017-2018 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-plant-use-mitigation-plan-2017-2018-annual-report_0.pdf
Aboriginal Plant Use Mitigation Plan 2018-2019 Annual Report	http://sitecproject.com/sites/default/files/aboriginal-plant-use-mitigation-plan-2018-2019-annual-report.pdf
Aboriginal Plant Use Mitigation Plan 2019-2020 Annual Report	http://sitecproject.com/sites/default/files/Aboriginal%20Plant%20Use%20Mitigation%20Plan%202019-2020%20Annual%20Report.pdf
Aboriginal Plant Use Mitigation Plan 2020-2021 Annual Report	Aboriginal Plant Use Mitigation Plan 2020-2021 Annual Report.pdf
Aboriginal Plant Use Mitigation Plan 2021-2022 Annual Report	aboriginal-plant-use-mitigation-plan-2021-2022-annual-report.pdf
Aboriginal Training and Inclusion Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Aboriginal-Training-Inclusion-Plan-2015-2016-20160705.pdf
Aboriginal Training and Inclusion Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/aboriginal-training-inclusion-plan-2016-2017-annual-report.pdf
Aboriginal Training and Inclusion Plan 2017-2018 Annual Report	https://www.sitecproject.com/sites/default/files/Aboriginal-Training-and-Inclusion-Plan-2017-2018-Annual-Report.pdf
Aboriginal Training and Inclusion Plan 2018-2019 Annual Report	http://sitecproject.com/sites/default/files/aboriginal-training-and-inclusion-plan-2018-2019-annual-report.pdf
Aboriginal Training and Inclusion Plan 2019-2020 Annual Report	http://sitecproject.com/sites/default/files/Aboriginal%20Training%20and%20Inclusion%20Plan%202019-2020%20Annual%20Report.pdf
Aboriginal Training and Inclusion Plan 2020-2021 Annual Report	Aboriginal Training and Inclusion Plan 2020-2021 Annual Report .pdf
Aboriginal Training and Inclusion Plan 2021-2022 Annual Report	aboriginal-training-and-inclusion-plan-2021-2022-annual-report.pdf
Accidents and Malfunctions Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Annual-Update-Accidents-and-Malfunctions-Plan-2015.pdf
Accidents and Malfunctions Plan 2016 Annual Update	https://www.sitecproject.com/sites/default/files/accidents-malfunctions-plan-2016.pdf
Accidents and Malfunctions Plan 2017 Annual Update	https://www.sitecproject.com/sites/default/files/accidents-malfunctions-plan-annual-update-2017_0.pdf
Accidents and Malfunctions Plan 2018 Annual Update	http://sitecproject.com/sites/default/files/accidents-and-malfunctions-plan-2018-annual-update.pdf
Accidents and Malfunctions Plan 2019 Annual Update	http://sitecproject.com/sites/default/files/Accidents%20and%20Malfunctions%20Plan%202019%20Annual%20Report.pdf
Accidents and Malfunctions Plan 2020 Annual Update	https://www.sitecproject.com/sites/default/files/Accidents%20and%20Malfunctions%20Plan%202020%20Annual%20Report_0.pdf
Accidents and Malfunctions Plan 2021 Annual Update	accidents-and-malfunctions-plan-2021-annual-report.pdf

Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2015	https://www.sitecproject.com/sites/default/files/Annual-Update-Water-Quality-2015-FDS-Condtion-7-5_0.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2016	https://www.sitecproject.com/sites/default/files/acid-rock-drainage-metal-water-quality-annual-report-2016.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2017	https://www.ceaa.gc.ca/050/documents/p63919/122317E.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2018	Part 1: http://sitecproject.com/sites/default/files/acid-rock-drainage-and-metal-leachate-management-plan-water-quality-2018-annual-report-part-1.pdf Part 2: http://sitecproject.com/sites/default/files/acid-rock-drainage-and-metal-leachate-management-plan-water-quality-2018-annual-report-part-2.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2019	Part 1: http://sitecproject.com/sites/default/files/Acid%20Rock%20Drainage%20and%20Metal%20Leachate%20Management%20Plan%20-%20Water%20Quality%202019%20Annual%20Report%20Part%201.pdf Part 2: http://sitecproject.com/sites/default/files/Acid%20Rock%20Drainage%20and%20Metal%20Leachate%20Management%20Plan%20-%20Water%20Quality%202019%20Annual%20Report%20Part%202.pdf Part 3: http://sitecproject.com/sites/default/files/Acid%20Rock%20Drainage%20and%20Metal%20Leachate%20Management%20Plan%20-%20Water%20Quality%202019%20Annual%20Report%20Part%203.pdf
Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2020	Part 1: Acid Rock Drainage and Metal Leachate Management Plan - Water Quality 2020 Annual Report Part 1 Part 2: Acid Rock Drainage and Metal Leachate Management Plan - Water Quality 2020 Annual Report Part 2 Part 3: Acid Rock Drainage and Metal Leachate Management Plan - Water Quality 2020 Annual Report Part 3 Part 4: Acid Rock Drainage and Metal Leachate Management Plan - Water Quality 2020 Annual Report Part 4

Acid Rock Drainage and Metal Leachate Management Plan – Water Quality Annual Report 2021	Part 1: acid-rock-drainage-metal-leachate-management-plan-water-quality-2021-annual-report-part-1.pdf Part 2: acid-rock-drainage-metal-leachate-management-plan-water-quality-2021-annual-report-part-2.pdf Part 3: acid-rock-drainage-metal-leachate-management-plan-water-quality-2021-annual-report-part-3.pdf Part 4: acid-rock-drainage-metal-leachate-management-plan-water-quality-2021-annual-report-part-4.pdf
Agricultural Monitoring and Follow-up Program 2016 Annual Report	https://www.sitecproject.com/sites/default/files/Agricultural-Monitoring-Annual-Report-2016.pdf
Agriculture Monitoring and Follow-up Program 2017 Annual Report	https://www.sitecproject.com/sites/default/files/agriculture-monitoring-annual-report-2017.pdf
Agriculture Monitoring and Follow-up Program 2018 Annual Report	https://www.sitecproject.com/sites/default/files/Ag-Monitoring-Annual-Report-2018.pdf
Agriculture Monitoring and Follow-up Program 2019 Annual Report	http://sitecproject.com/sites/default/files/Agriculture-Monitoring-Annual-Report-2019.pdf
Agriculture Monitoring and Follow-up Program 2020 Annual Report	http://sitecproject.com/sites/default/files/Agriculture%20Monitoring%20and%20Follow-up%20Program%202020%20Annual%20Report.pdf
Agriculture Monitoring and Follow-up Program 2021 Annual Report	agriculture-monitoring-and-follow-up-program-2021-annual-report.pdf
Air Quality Management Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Appendix-A-RWDI-Site-C-Climate-and-Air-Quality-Monitoring-Annual-Report-2015.pdf
Air Quality Management Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/climate-air-quality-annual-report-2016.pdf
Air Quality Management Plan 2017 Annual Report	https://www.sitecproject.com/sites/default/files/Air-Quality-Management-Plan-2017-Annual-Report.pdf
Air Quality Management Plan 2018 Annual Report	http://sitecproject.com/sites/default/files/Air-Quality-Management-Plan-2018-Annual-Report.pdf
Air Quality Management Plan 2019 Annual Report	http://sitecproject.com/sites/default/files/Air%20Quality%20Management%20Plan%202019%20Annual%20Report.pdf
Air Quality Management Plan 2020 Annual Report	https://www.sitecproject.com/sites/default/files/Air%20Quality%20Management%20Plan%202020%20Annual%20Report.pdf
Air Quality Management Plan 2021 Annual Report	air-quality-management-plan-2021-annual-report.pdf
Annual Compliance Report - Status of Compliance with EAC Conditions and Schedule B – 2015-2016	https://www.sitecproject.com/sites/default/files/EAC%20Annual%20Compliance%20Report%202015.pdf

Annual Compliance Report – Status of Compliance with EAC Conditions and Schedule B – 2016-2017	https://www.sitecproject.com/sites/default/files/EAC%20Annual%20Compliance%20Report%202016.pdf
Annual Compliance Report – Status of Compliance with EAC Conditions and Schedule B -2017-2018	https://www.sitecproject.com/sites/default/files/EAC%20Annual%20Compliance%20Report%202017.pdf
Annual Compliance Report – Status of Compliance with EAC Conditions and Schedule B -2018-2019	https://www.sitecproject.com/sites/default/files/EAC%20Annual%20Compliance%20Report%202019.pdf
Annual Compliance Report – Status of Compliance with EAC Conditions and Schedule B -2019-2020	https://www.sitecproject.com/sites/default/files/EAC%20Annual%20Compliance%20Report%202020.pdf
Annual Compliance Report – Status of Compliance with EAC Conditions and Schedule B -2020-2021	eac-annual-compliance-report-2021.pdf
Business Participation Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/business-participation-plan-annual-report-july-29-2016.pdf
Business Participation Plan 2016 – 2017 Annual Report	https://www.sitecproject.com/sites/default/files/business-participation-plan-annual-report-year-two-july-2017.pdf
Business Participation Plan 2017 - 2018 Annual Report	https://www.sitecproject.com/sites/default/files/Business-Participation-Plan-Annual-Report-July-27-2018.pdf
Business Participation Plan 2018 - 2019 Annual Report	http://sitecproject.com/sites/default/files/business-participation-plan-annual-report-20190726.pdf
Business Participation Plan 2019 - 2020 Annual Report	http://sitecproject.com/sites/default/files/2019-2020-Annual-Report-Business-Participation-Plan.pdf
Business Participation Plan 2020 - 2021 Annual Report	Business-Participation-Plan-2020-2021-Annual-Report.pdf
Business Participation Plan 2021 - 2022 Annual Report	business-participation-plan-2021-2022-annual-report.pdf
Construction Communications 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Site-C-Construction-Communications-Annual-Report-2016.pdf
Construction Communications 2016 – 2017 Annual Report	https://www.sitecproject.com/sites/default/files/site-c-construction-communications-annual-report-july-2017.pdf
Construction Communications 2017 - 2018 Annual Report	https://www.sitecproject.com/sites/default/files/Site-C-Construction-Communications-Annual-Report-July-2018.pdf
Construction Communications 2018 - 2019 Annual Report	http://sitecproject.com/sites/default/files/Site-C-Construction-Communications-2018-2019-Annual-Report.pdf
Construction Communications 2019 - 2020 Annual Report	http://sitecproject.com/sites/default/files/2019-2020-Site-C-Construction-Communications-Annual-Report.pdf

Construction Communications 2020 - 2021 Annual Report	Construction-Communications-2020-2021-Annual-Report.pdf
Construction Communications 2021 - 2022 Annual Report	construction-communications-2021-2022-annual-report_0.pdf
Cultural Resources Mitigation Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-Cultural-Resources-Mitigation-Plan-2015-2016-20160705.pdf
Cultural Resources Mitigation Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/cultural-resources-mitigation-plan-2016-2017-annual-report.pdf
Cultural Resources Mitigation Plan 2017-2018 Annual Report	https://www.sitecproject.com/sites/default/files/Cultural-Resources-Mitigation-Plan-2017-2018-Annual-Report.pdf
Cultural Resources Mitigation Plan 2018-2019 Annual Report	http://sitecproject.com/sites/default/files/cultural-resources-mitigation-plan-2018-2019-annual-report.pdf
Cultural Resources Mitigation Plan 2019-2020 Annual Report	http://sitecproject.com/sites/default/files/Cultural%20Resources%20Mitigation%20Plan%202019-2020%20Annual%20Report.pdf
Cultural Resources Mitigation Plan 2020-2021 Annual Report	Cultural Resources Mitigation Plan 2020-2021 Annual Report .pdf
Cultural Resources Mitigation Plan 2021-2022 Annual Report	cultural-resources-mitigation-plan-2021-2022-annual-report.pdf
Fisheries and Aquatic Habitat Management Plan 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/Annual-Report-Fisheries-Aquatic-Habitait-Managment-Plan-2015-2016.pdf
Fisheries and Aquatic Habitat Management Plan 2016-2017 Annual Report	https://www.sitecproject.com/sites/default/files/fisheries-aquatic-habitat-management-plan-annual-report-2016.pdf
Fisheries and Aquatic Habitat Management Plan 2017 Annual Report	https://www.sitecproject.com/sites/default/files/fisheries-aquatic-habitat-management-plan-annual-report-2017_0.pdf
Fisheries and Aquatic Habitat Management Plan 2018 Annual Report	http://sitecproject.com/sites/default/files/fisheries-and-aquatic-habitat-management-plan-2018-annual-report.pdf
Fisheries and Aquatic Habitat Management Plan 2019 Annual Report	http://sitecproject.com/sites/default/files/Fisheries%20and%20Aquatic%20Habitat%20Management%20Plan%202019%20Annual%20Report.pdf
Fisheries and Aquatic Habitat Management Plan 2020 Annual Report	https://www.sitecproject.com/sites/default/files/Fisheries%20and%20Aquatic%20Habitat%20Management%20Plan%202020%20Annual%20Report.pdf
Fisheries and Aquatic Habitat Management Plan 2021 Annual Report	fisheries-and-aquatic-habitat-management-plan-2021-annual-report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow Up Program 2015-2016 Annual Report	https://www.sitecproject.com/sites/default/files/fisheries-aquatic-habitat-monitoring-follow-up-program-annual-report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow up Program 2017 Annual Report	https://www.sitecproject.com/sites/default/files/report-annual-fahmfp-2017-20180301.pdf

Fisheries and Aquatic Habitat Monitoring and Follow up Program 2018 Annual Report	http://sitecproject.com/sites/default/files/Fisheries-and-Aquatic-Habitat-Monitoring-and-Follow-Up-Program-2018-Annual-Report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow up Program 2019 Annual Report	http://sitecproject.com/sites/default/files/Fisheries%20and%20Aquatic%20Habitat%20Monitoring%20and%20Follow-up%20Program%202019%20Annual%20Report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow up Program 2020 Annual Report	https://www.sitecproject.com/sites/default/files/Fisheries%20and%20Aquatic%20Habitat%20Monitoring%20and%20Follow-up%20Program%202020%20Annual%20Report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow up Program 2021 Annual Report	fisheries-and-aquatic-habitat-monitoring-and-follow-up-program-2021-annual-report.pdf
Fisheries and Aquatic Habitat Monitoring and Follow up Program 2022 Annual Report	Fisheries-and-Aquatic-Habitat-Monitoring-and-Follow-up-Program-2022-Annual-Report.pdf
Heritage Resources Management Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/Report-annual-BCH-to-CEAA-Heritage-Rsrcs-Mgt-Plan-20160705.pdf
Heritage Resources Management Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/heritage-resource-management-plan-annual-report-2016.pdf
Heritage Resource Management Plan 2017 Annual Report	https://www.sitecproject.com/sites/default/files/Heritage-Resource-Management-Plan-2017-Annual-Report.pdf
Heritage Resource Management Plan 2018 Annual Report	http://sitecproject.com/sites/default/files/heritage-resources-management-plan-2018-annual-report.pdf
Heritage Resource Management Plan 2019 Annual Report	http://sitecproject.com/sites/default/files/Heritage%20Resources%20Management%20Plan%202019%20Annual%20Report.pdf
Heritage Resource Management Plan 2020 Annual Report	https://www.sitecproject.com/sites/default/files/Heritage%20Resources%20Management%20Plan%202020%20Annual%20Report.pdf
Heritage Resource Management Plan 2021 Annual Report	heritage-resources-management-plan-2021-annual-report.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report Appendices Part 1	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015-appendices-part-1.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2015 Annual Report Appendices Part 2	https://www.sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-annual-report-2015-appendices-part-2.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2016 Annual Report	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-2016.pdf
Vegetation Wildlife Mitigation and Monitoring Plan 2017 Annual Report	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017.pdf

Vegetation and Wildlife Mitigation and Monitoring Plan 2017 Annual Report Appendices Part 1	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017-appendices-part-1_0.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2017 Annual Report Appendices Part 2	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017-appendices-part-2_0.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2017 Annual Report Appendices Part 3	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017-appendices-part-3.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2017 Annual Report Appendices Part 4	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017-appendices-part-4.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2017 Annual Report Appendices Part 5	https://www.sitecproject.com/sites/default/files/vegetation-wildlife-mitigation-monitoring-plan-annual-report-2017-appendices-part-5.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2018 Annual Report	Part 1: http://sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-2018-annual-report-part-1.pdf Part 2: http://sitecproject.com/sites/default/files/vegetation-and-wildlife-mitigation-and-monitoring-plan-2018-annual-report-part-2.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2019 Annual Report	Part 1: http://sitecproject.com/sites/default/files/Vegetation%20and%20Wildlife%20Mitigation%20and%20Monitoring%20Plan%202019%20Annual%20Report%20Part%201.pdf Part 2: http://sitecproject.com/sites/default/files/Vegetation%20and%20Wildlife%20Mitigation%20and%20Monitoring%20Plan%202019%20Annual%20Report%20Part%202.pdf
Vegetation and Wildlife Mitigation and Monitoring Plan 2020 Annual Report	Part 1: https://www.sitecproject.com/sites/default/files/Vegetation%20and%20Wildlife%20Mitigation%20and%20Monitoring%20Plan%202020%20Annual%20Report%20Part%201.pdf Part 2: Vegetation and Wildlife Mitigation and Monitoring Plan 2020 Annual Report Part 2 Part 3: Vegetation and Wildlife Mitigation and Monitoring Plan 2020 Annual Report Part 3

Vegetation and Wildlife Mitigation and Monitoring Plan 2021 Annual Report	Part 1: Vegetation-and-Wildlife-Mitigation-and-Monitoring-Plan-2021-Annual-Report-Part-1.pdf Part 2: Vegetation-and-Wildlife-Mitigation-and-Monitoring-Plan-2021-Annual-Report-Part-2.pdf Part 3: Vegetation-and-Wildlife-Mitigation-and-Monitoring-Plan-2021-Annual-Report-Part-3.pdf Part 4: Vegetation-and-Wildlife-Mitigation-and-Monitoring-Plan-2021-Annual-Report-Part-4.pdf

BC Hydro
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Site C Clean Energy Project

Annual Progress Report No. 7
(Combined with Quarterly Progress Report No. 28)

Appendix G

Environmental Assessment Certificate
Annual Compliance Report

Environmental Assessment Certificate #E14-02 Annual Compliance Report

Site C Clean Energy Project
March 31, 2022

Site C Clean Energy Project
Status of Compliance with the Conditions of the EAC #E14-02
March 31, 2022

Background

The Site C Clean Energy Project (the Project) will be the third dam and generating station on the Peace River that will provide up to 1,100 megawatts (MW) of capacity and about 5,100 gigawatt hours (GWh) of energy each year to the province's integrated electricity system. On October 14, 2014, the BC Provincial Minister of Environment and Minister of Forests, Lands and Natural Resource Operations decided that the Project is in the public interest and that the benefits identified by the Project outweigh the risks of significant adverse environmental, social and heritage effects. The assessment leading to the conclusion noted that the effects of the Project will largely be mitigated through careful, comprehensive mitigation programs and ongoing monitoring during construction and operation.

On October 14, 2014, the Ministers issued Environmental Assessment Certificate (EAC) #E14-02 setting 77 conditions under which the Project can proceed. Since 2014, the Environmental Assessment Office has issued eight amendments to the EAC. Table 1 provides a list of amendments that have been made to both Schedule A (Project Description) and Schedule B (List of Conditions) of the EAC since issuance.

EAC #E14-02 requires that BC Hydro submit a report to "EAO Compliance and Enforcement staff on the status of compliance with the Conditions of this Certificate, and the conditions in Schedule B … on or before March 31 in each year during construction and operation phases of the Project." The following report is being submitted in accordance with this requirement, covering the period January 1, 2021 to December 31, 2021.

Summary of Compliance

EAC #E14-02 now contains 79 conditions which comprise 616 unique requirements relating to the following areas:

- Aquatic Environment
- Fish and Fish Habitat
- Vegetation and Ecological Communities
- Wildlife Resources
- Current Use of Lands and Resources for Traditional Purposes
- Land and Resource Use
- Transportation
- Outdoor Recreation
- Community

- Human Health
- Heritage Resources
- Environmental Protections and Management
- Environmental Management Plans, Follow-up and Monitoring
- Dam Safety
- West Pine Haul Route Traffic Management
- Highway 29 Realignment – Cache Creek Segment, Noise Monitoring and Mitigation

BC Hydro has assessed compliance of conditions as a whole, as well as with the individual requirements of each condition. This assessment is based on evidence collected through a comprehensive compliance program which requires monitoring and reporting by contractors, an Independent Environmental Monitor, and BC Hydro.

Summary of Compliance with 79 Conditions:

- No conditions have been assessed as being in non-compliance
- **10** conditions have not yet required implementation – all of the requirements in these conditions are in planning stages and will be implemented at a future time, such as during reservoir filling or operations
- **69** conditions are underway and have been assessed as having requirements that are "in compliance" and are in various stages of implementation. The requirements in these conditions have either been completed, are ongoing, or are not yet required to have started, but are deemed in compliance

Summary of Compliance with 616 Requirements:

Table 2 summarizes the status of compliance with each of the requirements in the 79 conditions of EAC #E14-02. The table shows that the total 616 requirements are assessed as being in compliance.

Summary of Inspections by EAO:

BC Hydro was inspected by Regulatory Agencies multiple times during the reporting period, including five inspections by the Environmental Assessment Office. These written inspection reports included 22 separate findings of non-compliance related to site specific and often isolated issues, such as missing spill trays, wildlife mitigation, erosion and sediment control, and waste management. BC Hydro responded to each finding of non-compliance, corrected the deficiency, and provided evidence of this correction to the Environmental Assessment Office. EAO did not issue any Orders between January 1, 2021 and December 31, 2021.

Summary of Inspections by BC Hydro:

BC Hydro has developed an Active Compliance Management Tool (ACMT), to monitor, track and report on compliance with environmental conditions and commitments for the Project. The ACMT includes a mobile inspection tool that provides geography-specific and theme-specific record of environmental compliance at site. In June 2017 BCH launched the ACMT on the Site C Project, enhancing the ability to share inspection results with contractors and driving environmental compliance.

Between January 1, 2021 to December 31, 2021 BC Hydro used the ACMT to inspect 29,295 inspection results against conditions of the Environmental Assessment Certificate #E14-02 (EAC), for the Site C Project. Of the 16 categories described in the EAC #E14-02, the ACMT currently inspects against the following 10 categories:

- Aquatic Environment
- Community
- Current Use of Land and Resources for Traditional Purposes
- Environmental Management Plans, Follow-up and Monitoring
- Fish and Fish Habitat
- Heritage Resources
- Human Health
- Transportation
- Vegetation and Ecological Communities
- Wildlife Resources

Table 3 details a summary of compliance and deficiencies, against EAC #E14-02, identified by BC Hydro using the ACMT from January 1, 2021 to December 31, 2021. From the 29,295 inspection results, BC Hydro was able to verify the compliance status against 94,538 EAC requirements. BC Hydro recorded compliance against 85,235 (90%) of these compliance statements and identified 9,303 (10%) deficiencies.

BC Hydro actively worked with its contractors to remedy these deficiencies. Most deficiencies are corrected when identified in the field, and some deficiencies are corrected following formal communication between BC Hydro and responsible contractors. As of December 31, 2021, 18 of the deficiencies identified between January 1, 2021 to December 31, 2021 were open including one remaining open from 2020. Most of the deficiencies were related to erosion and sediment and spill prevention response. When a deficiency is noted, follow-up inspections are completed to check on the status of the deficiency and see how it is being addressed. The status of the deficiency remains unchanged until BC Hydro has deemed it to be 100% compliant.

Table 1. List of Amendments to EAC #E14-02

Amendment No.	Issued	Amendment to EAC #E14-02
1	March 12, 2018	Amends Schedule A (Project Description) Sections 4.3.1, 4.3.1.4 and 4.3.1.5 of Schedule A regarding the design of the Generating Station and Spillway as follows: • The location of the transformers changed from the draft tube deck to upstream of the generator units on the transformer deck • the spillway design changed from seven gates to three radial gates and six low level outlets • the discharge capacity changed from 10,100 m3/s at the maximum normal reservoir level and 17,300 m3/s at the maximum flood level to 11,000 m3/s at the maximum normal reservoir level and 16,700 m3/s at the maximum flood level
2	October 26, 2018	Amends Schedule A (Project Description) Section 4.3.4.1 and Figure 4.32 of Schedule A to increase the length of the Halfway River Bridge from 305m up to 1,100m in length, eliminate the causeway, and increase the number of bridge piers up to 19.
3	November 14, 2018	Amends Schedule A (Project Description) Section 4.3.5.2.3 and 4.3.5.2.4, Table 4.7 and 4.9 of Schedule A to permit the use West Pine Quarry, in addition to Portage Mountain Quarry, as a source of excavated material for the construction of Highway 29 realignment, Hudson's Hope shoreline protection, and areas along the reservoir requiring protection during reservoir filling.
		Amends Schedule B (Conditions) in response to Amendment #3 above to require that BC Hydro develop a Traffic Management Plan for the West Pine Quarry Haul Route, in consultation with Saulteau First nations, West Moberly First Nations, the District of Hudson's Hope, the District of Chetwynd, and the Ministry of Transportation and Infrastructure.
4	February 12, 2019	Amends Schedule B Conditions #4 and #13 to maintain a 15 m machine free zone adjacent to watercourses during reservoir clearing, except where worker safety prohibits manual tree falling and vegetation removal methods and as addressed in a site-specific prescription prepared and endorsed by a QEP. The rationale for the safety exemption must be documented in the prescription.

Amendment No.	Issued	Amendment to EAC #E14-02
5	December 13, 2019	Amends Schedule A (Project Description) Section 4.3.4.1, Table 4.5 to reflect a longer bridge and no causeway for the crossing of Highway 29 realignment at Cache Creek. Also amends the design of the overall alignment of this segment, per Figure 4.33 of the EAC.
		Amends Schedule B (Conditions) in response to Amendment #5 above to require that BC Hydro develop a Noise Monitoring Plan to assess potential vehicle traffic noise impacts from the Highway 29 realignment at Cache Creek to the sweat lodge (the receiver location) identified in the application to amend the Certificate. The plan must be developed in consultation with West Moberly First Nations.
6	December 13, 2019	Amends Schedule A (Project Description) Section 4.3.6, and subsections, to reflect the expansion of the worker accommodation to permit up to 2,400 workers during peak periods.
7	May 27, 2020	Amends Schedule A (Project Description) Section 4.3.4.1 and Figures 4.28-4.30 to modify the design of the Highway 29 realignment crossings of Farrell Creek, Dry Creek and Lynx Creek.
8	November 24, 2020	Amends Schedule A (Project Description) Section 4.3.5.2, Table 4.7, and Figure 4.11 to develop and use the Halfway River East Borrow Source.

Table 2. Summary of Compliance with Requirements of EAC #E14-02 Conditions

Area	Category	# of Conditions	Total # of Requirements	# of Future Requirements	# of Requirement "In Compliance" (Completed or Ongoing)	# of Requirements "In Non-Compliance"
Aquatic Environment	Hydrology	1	11	11	0	0
	Fluvial Geomorphology and Sediment	1	17	0	17	0
	Water Quality	1	12	0	12	0
Fish and Fish Habitat	Fish and Fish Habitat	4	52	13	39	0
Vegetation and Ecological Communities	Vegetation and Ecological Communities	7	67	0	67	0
Wildlife Resources	Wildlife Resources	10	64	0	64	0
Current Use of Lands and Resources for Traditional Purposes	Current Use of Lands and Resources for Traditional Purposes	4	20	0	20	0
Land and Resource Use	Harvest of Fish and Wildlife	1	2	0	2	0
	Agriculture	2	25	0	25	0
	Other Resource Industries	3	13	6	7	0
Transportation	Transportation	4	41	0	41	0

Area	Category	# of Conditions	Total # of Requirements	# of Future Requirements	# of Requirement "In Compliance" (Completed or Ongoing)	# of Requirements "In Non-Compliance" (Completed or Ongoing)
Outdoor Recreation and Tourism	Outdoor Recreation and Tourism	3	15	3	12	0
Community	Community Infrastructure and Services	6	31	6	25	0
	Housing	2	18	0	18	0
	Regional Economic Development	6	34	1	33	0
Human Health	Potable and Recreational Water Quality	1	3	1	2	0
	Ambient Air Quality	1	11	0	11	0
	Noise and Vibration	2	14	0	14	0
	Methylmercury	1	12	2	10	0
Heritage Resources	Visual Resources	1	4	0	4	0
	Physical Heritage and Cultural Heritage	3	22	4	18	0
Environmental Protection and Management	GHG Monitoring	1	7	7	0	0

Area	Category	# of Conditions	Total # of Requirements	# of Future Requirements	# of Requirement "In Compliance" (Completed or Ongoing)	# of Requirements "In Non-Compliance"
Environmental Management Plans, Follow-up and Monitoring	Environmental Management Plans, Follow-up and Monitoring	10	98	30	68	0
Dam Safety	Dam Safety	2	3	3	0	0
West Pine Haul Route Traffic Management Plan	West Pine Haul Route Traffic Management Plan	1	13	0	13	0
Highway 29 Realignment – Cache Creek Segment, Noise Monitoring and Mitigation	Highway 29 Realignment – Cache Creek Segment, Noise Monitoring and Mitigation	1	7	3	4	0
TOTAL		**79**	**616**	**90**	**526**	**0**

Table 3. ACMT results against EAC #E14-02 from January 1, 2021 to December 31, 2021.

Area	# of Inspection Results	# of Identified Compliance Results	# of Identified Partial Deficiency Results	# of Identified Deficiency Results	% of Compliance
Aquatic Environment	3,639	3,295	249	95	91%
Community	17,205	15,739	1,116	350	91%
Current Use of Land and Resources for Traditional Purposes	10	10	0	0	100%
Environmental Management Plans, Follow-Up and Monitoring	54,045	47,850	4,347	1,848	89%
Fish and Habitat	2,820	2,678	90	52	95%
Heritage Resources	273	238	23	12	87%
Human Health	4,300	4,190	75	35	97%
Transportation	111	86	16	9	77%
Vegetation and Ecological Communities	2,204	2,012	125	67	91%
Wildlife Resources	9,931	9,137	534	260	92%
TOTAL	**94,538**	**85,235**	**6,575**	**2,728**	**90%**

Acronyms and Abbreviations

APUMP	Aboriginal Plan Use Mitigation Plan
CEAA	Canadian Environmental Assessment Act
CEMP	Construction Environmental Management Plan
CMHC	Canada Mortgage and Housing Corporation
CRMP	Cultural Resources Mitigation Plan
CSMP	Construction Safety Management Plan
DFO	Department of Fisheries and Oceans Canada
EAC	Environmental Assessment Certificate
EAO	Environmental Assessment Office
EPP	Environmental Protection Plan
FAHMFP	Fisheries and Aquatic Habitat Management Follow-up Program
FAHMP	Fisheries and Aquatic Habitat Management Plan
FLNR	Ministry of Forests, Lands, Natural Resource Operations and Rural Development
FNHA	First Nations Health Authority
GHG	Greenhouse Gas
HRMP	Heritage Resources Management Plan
IEM	Independent Environmental Monitor
IWMAMP	Invasive Weed Mitigation and Adaptive Management Plan
MOE	Ministry of Environment
MOTI	Ministry of Transportation and Infrastructure
MOU	Memorandum of Understanding
NHA	Northern Health Authority
OEMP	Operations Environmental Management Plan
OHWM	Ordinary High-Water Mark
PAG	Potentially Acid Generating
PRRD	Peace River Regional District
QEP	Qualified Environmental Professional
QP	Qualified Professional
SARA	Species at Risk Act
RAA	The Regional Assessment Area
RSEM	Relocated Surplus Excavated Material
RVMA	Riparian Vegetation Management Area
TSFA	Terrain Stability Field Assessments
TSS	Total Suspended Solids
TU	Treatment Unit
VCDMP	Vegetation Clearing and Debris Management Plan
VWMMP	Vegetation and Wildlife Mitigation and Monitoring Plan
VWTC	Vegetation and Wildlife Technical Committee
WHIMS	Workplace Hazardous Materials Information System

Site C Clean Energy Project
Annual Compliance Report for Environmental Assessment Certificate #E14-02
Covering Period January 1, 2021 to December 31, 2021
Submitted March 31, 2022

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
	AQUATIC ENVIRONMENT			
	Hydrology			
EAC 01	The EAC Holder must address potential risks to infrastructure downstream of the Site C dam as far as Peace River, Alberta caused by low flows, caused by the Project, during reservoir filling and operation by implementing the following measures:	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro has entered into agreements with the downstream communities that have identified potential infrastructure impacts and established commitments to monitor and/or mitigate impacts. Additionally, BC Hydro continues to collect present state field data to inform future changes and associated downstream impact assessments. BC Hydro coordinated the Peace River flow change information updates with the Government of Alberta for the 2020 diversion period. Pre-diversion meetings, weekly updates during diversion and a post-diversion meeting were completed with the Alberta representatives. BC Hydro and Alberta staff agreed the diversion flow coordination served as a valuable experience that will inform the reservoir filling plan. As of March 2022, BC Hydro has commenced reservoir filling planning and will be engaging the Government of Alberta representatives in spring 2022.
EAC 01	· The Holder must maintain a minimum release of 390 cubic meters per second from the Site C dam	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro has included this requirement within the design of the generating station and spillways and overall operation of the dam. BC Hydro will be developing an Owner's Operation, Maintenance and Surveillance Manual that will also include this requirement during the operating period.
EAC 01	· The Holder must estimate downstream flows at minimum, average and maximum rates of reservoir filling in order to identify the approach that would minimize impacts on downstream flows and water level conditions.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro has included this requirement within the design of the generating station and spillways and overall operation of the dam. BC Hydro will be developing an Owner's Operation, Maintenance and Surveillance Manual that will also include this requirement.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 01	· The Holder must work with the Government of Alberta to jointly develop an Adaptive Management Plan to manage potential risks to infrastructure downstream of the Site C dam to the Town of Peace River, Alberta caused by low water flows during reservoir filling and operation of the Project. For the purposes of the Plan infrastructure must include water intakes, ferry crossings and any other activities identified by the Proponent and the Government of Alberta.	Planning	Future Requirement	BC Hydro coordinated the Peace River flow change information updates with the Government of Alberta for the 2020 diversion period. Pre-diversion meetings, weekly updates during diversion and a post-diversion meeting were completed with the Alberta representatives. BC Hydro and Alberta staff agreed the diversion flow coordination served as a valuable experience that will inform the reservoir filling plan. BC Hydro intends to begin further engagement and reservoir filling plan preparations 2021, following the re-establishment of the Site C reservoir filling schedule. As of March 2022, BC Hydro has commenced reservoir filling planning and will be engaging the Government of Alberta representatives in spring 2022.
EAC 01	· The Plan must include at least the following: Provisions for assessing potential risks to infrastructure caused by low water flows as a result of the Project;	Planning	Future Requirement	BC Hydro is working with Government of Alberta representatives to assess potential risks to infrastructure caused by river diversion. This effort is expected to inform plans for reservoir filling.
EAC 01	· Provisions for obtaining baseline and operational flow information;	Planning	Future Requirement	BC Hydro is working with Government of Alberta representatives to assess baseline and operational flow information ahead of river diversion. This effort is expected to inform plans for reservoir filling.
EAC 01	· Provisions for obtaining information on any current impacts to infrastructure attributable to low water flows caused by the Project;	Planning	Future Requirement	BC Hydro is working with Government of Alberta representatives to identify any impacts to infrastructure associated with river diversion. This effort is expected to inform plans for reservoir filling.
EAC 01	· Identification of any impacts to infrastructure attributable to low water flows caused by the Project; and	Planning	Future Requirement	BC Hydro is working with Government of Alberta representatives to identify any impacts to infrastructure associated with river diversion. This effort is expected to inform plans for reservoir filling.
EAC 01	· The Mitigation measures such as additional flow regulation, adjustment to Alberta infrastructure and notifying the Government of Alberta of prolonged low water flow conditions, necessary to avoid or minimize impacts attributable to low water flows caused by the Project.	Planning	Future Requirement	BC Hydro is working with Government of Alberta representatives to identify any impacts to infrastructure associated with river diversion. This effort is expected to inform plans for reservoir filling.
EAC 01	The EAC Holder must submit the plan to EAO a minimum of 30 days prior to reservoir filling.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 01	The EAC Holder must implement the Plan and report on the results annually to EAO commencing from reservoir filling to the end of year 5 of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
	Fluvial Geomorphology and Sediment Transport			
EAC 02	The EAC Holder must manage adverse Project effects on water quality by managing erosion and sediment transport, as detailed in an Erosion Prevention and Sediment Control Plan.	Ongoing	In Compliance	The Erosion and Sediment Control Plan is described in Section 4.4 of the Construction Environmental Management Plan (CEMP). The CEMP contains Appendix I and J, which provide details on the Project's erosion and sediment control requirements, including the requirement for Contractors to retain their own Erosion and Sediment Control QPs.
EAC 02	The Erosion Prevention and Sediment Control Plan must be developed by a Qualified Environmental Professional (QEP).	Complete	In Compliance	The CEMP requires that contractors identify and isolate work areas to prevent sediment from entering the downstream environment. BC Hydro audits compliance with this requirement by reviewing contractor Environmental Protection Plans (EPPs) and conducting environmental audits during construction to verify implementation of EPPs.
EAC 02	The Plan must identify areas of high erosion and sediment potential. The Erosion Prevention and Sediment Control Plan must include at least the following:	Ongoing	In Compliance	The CEMP requires that Contractor EPPs identify water management plans to control runoff and direct it away from work areas where excavation, soil placement and staging activities occur. BC Hydro audits compliance with these requirements by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 02	· Manage water (e.g. rainfall, snowmelt,) to control runoff and direct it away from work areas where excavation, spoil placement, and staging activities occur.	Ongoing	In Compliance	The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.
EAC 02	· Adjust the timing of construction activities to coincide with periods of high background sediment levels.	Ongoing	In Compliance	The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.
EAC 02	· Use clean rock materials for riprap construction.	Ongoing	In Compliance	The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 02	· Manage equipment production rates during construction to reduce sediment generation.	Ongoing	In Compliance	The CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.
EAC 02	· Identify and isolate work areas to prevent sediment from entering the downstream environment.	Ongoing	In Compliance	BC Hydro is implementing and adhering to the final Erosion Prevention and Sediment Control Plan as well as additional commitments including quality inspections and regular reporting on plan progress. This program involves Qualified Erosion and Sediment Control Professionals who review work areas for Erosion and Sediment Control risks, author prescriptions with due dates based on risk, oversee the implementation of these prescriptions, prescribe reinspection dates, and have overall responsibility for Erosion and Sediment Control measures in their work areas.
EAC 02	· Leave stumps in place to reduce soil disturbance, erosion and sediment transport in the headpond during reservoir clearing to reduce soil disturbance and potential sedimentation issues.	Ongoing	In Compliance	The CEMP requires contractors to leave stumps in place to reduce soil disturbance, and erosion and sediment transport in the headpond during reservoir clearing. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Note that stumps are removed for road construction associated with reservoir clearing as described in the Project's Environmental Impact Statement and Vegetation Clearing and Debris Management Plan (VCDMP). BC Hydro has determined that stump removal associated with road construction is consistent with this condition.
EAC 02	· Manage vegetation and soil stripping, taking into consideration proximity to sensitive habitats as determined by a QEP (e.g. wetlands) and slope stability.	Ongoing	In Compliance	The CEMP requires contractors to manage vegetation and soil stripping, taking into consideration proximity to sensitive habitat and slope stability as determined by a QEP. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 02	· Salvage and stockpile clean surface soils for site restoration.	Ongoing	In Compliance	The CEMP requires contractors to salvage and stockpile clean surface soils for site restoration. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. To date, several soil stockpiles have needed to be relocated due to construction modifications, and the relocation and preservation of these piles is audited by BC Hydro.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 02	· Establish vegetative cover on the soils stockpiled to prevent erosion.	Ongoing	In Compliance	The CEMP requires contractors to establish vegetative cover on the soils stockpiled to prevent erosion. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Topsoil stockpiles are monitored to assess the re-vegetation success as well as invasive occurrences by both BC Hydro and contractor QEPs.
EAC 02	· Develop construction schedules such that reservoir clearing in the winter is maximized.	Ongoing	In Compliance	To date, reservoir clearing has coincided with winter conditions.
EAC 02	· Isolate in-stream work areas from flowing water except as permitted by the on-site environmental monitor.	Ongoing	In Compliance	BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Some instream work has occurred on the Project in compliance with the Project's Fisheries Act Authorizations (both early works and dam construction). This work has not always been completed in isolation of the Peace river but was conducted under the supervision of the on-site environmental monitoring, and was monitored for compliance with the Fisheries Act Authorizations' severity of ill effects limits.
EAC 02	The EAC Holder must provide this draft Erosion Prevention and Sediment Control Plan to BC Ministry of Forests, Lands and Natural Resource Operations (FLNR), BC Ministry of Environment (MOE), Aboriginal Groups, Peace River Regional District, City of Fort St. John, and District of Hudson's Hope for review a minimum of 90 days prior to commencement of construction activities.	Complete	In Compliance	The Erosion and Sediment Control Plan is described in Section 4.4 of the Construction Environmental Management Plan (CEMP). This program involves Qualified Erosion and Sediment Control Professionals who review work areas for Erosion and Sediment Control risks, author prescriptions with due dates based on risk, oversee the implementation of these prescriptions, prescribe reinspection dates, and have overall responsibility for Erosion and Sediment Control measures in their work areas.
EAC 02	The EAC Holder must file the final Erosion Prevention and Sediment Control Plan with EAO, FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and District of Hudson's Hope a minimum of 30 days prior to commencement of construction activities.	Complete	In Compliance	Appendix H of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 02	The EAC Holder must develop, implement and adhere to the final Erosion Prevention and Sediment Control Plan, and any amendments to the final Erosion Prevention and Sediment Control Plan, to the satisfaction of Environmental Assessment Office (EAO).	Ongoing	In Compliance	The Erosion and Sediment Control Plan is described in Section 4.4 of the Construction Environmental Management Plan (CEMP). This program involves Qualified Erosion and Sediment Control Professionals who review work areas for Erosion and Sediment Control risks, author prescriptions with due dates based on risk, oversee the implementation of these prescriptions, prescribe reinspection dates, and have overall responsibility for Erosion and Sediment Control measures in their work areas.
	Water Quality			
EAC 03	To address potential environmental effects of acid generation and metal leaching from construction activities and reservoir creation, EAC Holder must develop a water quality monitoring program.	Ongoing	In Compliance	Section 4.14 and Appendix E of the CEMP sets out the water quality management program that contractors are required to adhere to, including associated measures to address potential effects of acid generation and metal leaching. BC Hydro audits compliance with Section 4.14 and Appendix E of the CEMP by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 03	The water quality monitoring program must include: · Identification of water quality parameters to be monitored;	Ongoing	In Compliance	CEMP Appendix E identifies water quality parameters to be monitored based on the source and type (e.g., surface water, groundwater, sediment pond water) of Potentially Acid Generating (PAG) contact water. The plan describes the monitoring frequency, duration, and parameters, which vary by monitoring sub-program. Parameters of interest for Relocated Surface Excavated Material (RSEM) discharges containing PAG have currently been identified as Cd, Co, Cu, Zn, TSS, and pH (CEMP Appendix E, Table 2), in addition to a requirement for acute toxicity testing. These parameters have been subject to reassessment as the Project has gathered additional information from water quality and toxicity assessments, and a revised proposal was consulted upon and subsequently accepted by the EAO in October 2021. These revised regime is expected to be implemented in 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 03	· Identification of the geographic extent and duration of the monitoring;	Ongoing	In Compliance	Appendix E of the CEMP identifies the geographic extent and duration of the water quality monitoring requirements based on the source and type of potential PAG contact water (e.g., surface water, groundwater, sediment pond water). The plan describes the monitoring frequency, duration, and parameters, which vary by monitoring sub-program. For example, the geographic extent of the monthly Peace River water quality monitoring program extends from a control point upstream of the construction footprint to a far-field location downstream of all RSEM discharges where the Peace River and RSEM discharge is completely mixed. The duration of the monitoring corresponds with the duration of RSEM sediment pond operation and discharge, except when monitoring poses an undue risk to worker health and safety. The frequency of monitoring has been subject to reassessment as the Project has gathered additional information from water quality and mixing assessments, and a revised proposal was consulted upon in 2021. A revision to the frequency of in-pond sampling was accepted by the EAO in October 2021, and is expected to be implemented in 2022.
EAC 03	· Baseline sampling of parameters;	Ongoing	In Compliance	Baseline sampling is specific to each type of monitoring program. For example, a quarterly baseline water quality monitoring program at sampling locations in the Peace River commenced in 2015 and is ongoing. Baseline sampling at groundwater wells installed at PAG-contact RSEM facilities was conducted prior to placement of PAG at those RSEMs.
EAC 03	· Monitoring of parameters;	Ongoing	In Compliance	Surface water monitoring in the Peace River, at runoff locations at the dam site, and in PAG-contact RSEM sediment ponds (as required by the CEMP, Appendix E) is ongoing. Installation of groundwater wells at RSEM Areas R5a and R5b occurred between September and November 2016, with baseline monitoring completed shortly after installation and quarterly monitoring ongoing through to Q3 2020. In September 2020, all wells were decommissioned in accordance with the Groundwater Protection Regulation prior to head pond inundation, and the groundwater monitoring program at the dam site concluded.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 03	· Identification of potential mitigation measures if water quality impacts observed; and	Ongoing	In Compliance	Potential mitigation measures to be implemented if water quality impacts are observed are described in CEMP Appendix E, Section 7.4. In 2018, a mobile water treatment facility was procured to the dam site to treat PAG-contact water for elevated metals (it was commissioned as of July). This facility operated throughout 2019, 2020 (when it was relocated to RSEM R6 in order to accommodate planned approach channel excavation activities), and 2021. For the reporting period, PAG-contact water quality exceedance events at RSEM sediment pond discharges (namely, at RSEM R6) occurred once in early January, and then intermittently in November and December, rather than during freshet as in previous years. These exceedances of total zinc were relatively minor, and were largely thought to be caused by contributions from a corrugated metal culvert that treated water was conveyed through. The Comptroller of Water Rights issued an Order under Section 93 of the Water Sustainability Act to BC Hydro on February 27, 2019, regarding the implementation of Care of Water measures to address the release of potentially acid generating rock into the Peace River. In accordance with this Order, BC Hydro worked with its contractors to increase the holding capacity and effectiveness of the care of water system and to remove the weathered acidic rock to reduce the potential for exceedance events. All items in the Order have now been addressed.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 03	· Process for implementing mitigation measures to address water quality impacts.	Ongoing	In Compliance	Potential mitigation measures to be implemented if water quality impacts are observed are described in CEMP Appendix E, Section 7.4. In 2018, a mobile water treatment facility was procured to the dam site to treat PAG-contact water for elevated metals (it was commissioned as of July). This facility operated throughout 2019, 2020 (when it was relocated to RSEM R6 in order to accommodate planned approach channel excavation activities), and 2021. For the reporting period, PAG-contact water quality exceedance events at RSEM sediment pond discharges (namely, at RSEM R6) occurred once in early January, and then intermittently in November and December, rather than during freshet as in previous years. These exceedances of total zinc were relatively minor, and were largely thought to be caused by contributions from a corrugated metal culvert that treated water was conveyed through. The Comptroller of Water Rights issued an Order under Section 93 of the Water Sustainability Act to BC Hydro on February 27, 2019, regarding the implementation of Care of Water measures to address the release of potentially acid generating rock into the Peace River. In accordance with this Order, BC Hydro worked with its contractors to increase the holding capacity and effectiveness of the care of water system and to remove the weathered acidic rock to reduce the potential for exceedance events. However, the order is still open with the CWR and BC Hydro is working with the contractor to address one item regarding the construction of a diversion ditch for the approach channel (work commenced in late 2021 and is ongoing).
EAC 03	The EAC Holder must provide this draft water quality monitoring program to Environment Canada, Natural Resources Canada, MOE, FLNR, Aboriginal Groups, Peace River Regional District and the City of Fort St. John for review a minimum of 90 days prior to commencement of construction.	Complete	In Compliance	The draft Water Quality Monitoring Program is described in Section 4.14 and Appendix E-Section 7.3 of the CEMP. The draft CEMP was provided to regulatory agencies, governments and Indigenous Nations on October 17, 2014.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 03	The EAC Holder must file the final water quality monitoring program with EAO, Environment Canada, Natural Resources Canada, MOE, FLNR, Aboriginal Groups, Peace River Regional District and City of Fort St. John a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The final (Revision 1) of the CEMP, including the Water Quality Monitoring Program, was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. The most recent revision of the Acid Rock Drainage and Metal Leachate Management Plan, which contains the water quality monitoring program, was issued on January 17, 2022. This document is found as Appendix E in Revision 9.0 of the CEMP, also issued on January 17, 2022. A detailed revision history is provided in Appendix E.
EAC 03	The EAC Holder must report on the results annually to the EAO every June 1.	Ongoing	In Compliance	A water quality report covering 2021 construction activities was submitted to the EAO on March 31, 2021. The next report (covering 2021 construction activities) will be submitted to the EAO by June 1, 2022.
EAC 03	The final water quality monitoring program must be detailed in the Acid Rock Drainage and Metal Leachate Management Plan,	Complete	In Compliance	The water quality monitoring program is described in Section 4.14 and Appendix E- Section 7.0 of the CEMP (Revision 9).
EAC 03	The EAC Holder must develop, implement and adhere to the final water quality monitoring program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The water quality monitoring program, as outlined in Appendix E of the CEMP, is being implemented and adhered to, with responsibilities specific to BC Hydro and the Contractor as outlined. Water quality monitoring reports have been submitted annually by June 1 of each year to cover monitoring conducted in conjunction with construction in the preceding year. The next report (covering 2021 construction activities) will be submitted to the EAO on or before June 1, 2022.
	FISH AND FISH HABITAT			
EAC 04	The EAC Holder must manage harmful Project effects on fish and fish habitats during the construction and operation phases by implementing mitigation measures detailed in a Fisheries and Aquatic Habitat Management Plan.	Ongoing	In Compliance	BC Hydro developed a Fisheries and Aquatic Habitat Management Plan and is implementing measures in accordance with the plan.
EAC 04	The Fisheries and Aquatic Habitat Management Plan must be developed by a QEP.	Complete	In Compliance	Section 8.0 of the Fisheries and Aquatic Habitat Management Plan (FAHMP) lists the QEPs who prepared the plan.
EAC 04	The Fisheries and Aquatic Habitat Management Plan must include at least the following: · Remove temporary structures as soon as they are no longer required.	Ongoing	In Compliance	Section 4.5 of the CEMP (Fisheries and Aquatic Habitat Management) requires that Contractor Environmental Protection Plans (EPPs) identify how the Contractor will remove temporary structures as soon as they are no longer required, unless otherwise authorized in a permit or approval. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 04	· Maintain a 15 m machine free zone adjacent to watercourses during reservoir clearing (as measured from the Ordinary High Water Mark). 1 0F	Ongoing	In Compliance	During the reporting period, Section 4.5 of the CEMP (Fisheries and Aquatic Habitat Management) required that Contractor EPPs identify that the Contractor will maintain a 15 m machine free zone adjacent to watercourses during reservoir clearing. Please refer to footnote below regarding the amendment to this Condition in February 2019, allowing for the selective use of mechanical clearing in riparian zones where safety prohibits manual falling. BC Hydro audited compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 04	· Place material relocation sites (R5a, R5b, and R6) 15 m back from the mainstem to avoid affecting Peace River fish habitat.	Ongoing	In Compliance	Material relocation sites (R5a, R5b and R6) were designed to be at least 15 m from the mainstem of the Peace River as required by this condition.
EAC 04	· Contour mainstream bars to reduce potential for fish stranding, as advised by FLNR.	Ongoing	In Compliance	Section 6.2.1.1 of the FAHMP (Peace River Channel Contouring and Side Channel Enhancement) describes the contouring of mainstream bars associated with this condition. Mainstem channel contouring is underway with completion expected by 2023.
EAC 04	· Incorporate fish habitat features into the final capping of material relocation sites upstream of the dam.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	· Contour and cap with gravels and cobble substrate the spoil area between elevations 455 m and 461 m to provide a productive	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. Section 6.2.3.4 of the FAHMP (Dam Site Material Relocation Site Enhancement) describes this requirement.
EAC 04	Incorporate fish habitat features into the final design of the Highway 29 roadway that would border the reservoir, east of Lynx Creek.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. Section 6.2.3.2 of the FAHMP (Highway 29 Realignment Fish Habitat) describes this requirement. The initial construction stages of the Highway 29 roadway that would border the reservoir, east of Lynx Creek, are underway with completion expected in 2022.
EAC 04	· Include fish habitat features (e.g., shears, large riprap point bars, etc.) in the final design of the north bank haul road bed material that would be placed in the Peace River.	Complete	In Compliance	Fish habitat features have also been incorporated into the design of the north bank haul road bed material placed in the Peace River; this work was completed in the Spring of 2016.
EAC 04	· Construct the Hudson's Hope shoreline protection with large material that will provide replacement fish habitat. Incorporate additional fish habitat features (e.g., shear zones and point bars) into the final design of the Hudson's Hope shoreline protection.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. Section 6.2.3.3 of the FAHMP (Hudson's Hope Shoreline Protection Fish Habitat) describes this requirement. Construction of the Hudson's Hope Shoreline Protection is underway with completion expected by 2023.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 04	· Contour Highway 29 borrow sites prior to decommissioning to provide littoral fish habitat in the reservoir.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. Section 6.2.3.1 of the FAHMP (Site C Reservoir Shoreline Enhancement) describes this requirement.
EAC 04	· Cap material repositioning areas with gravel and cobble, and contour to enhance fish habitat conditions.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. Section 6.2.3.4 of the FAHMP (Dam Site Material Relocation Site Enhancement) describes this requirement.
EAC 04	· Plant a 15 m wide riparian area along the reservoir shoreline adjacent to BC Hydro-owned farmland where necessary to provide riparian habitat and bank stabilization except as approved by the onsite environmental monitor.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. Section 6.2.3.5 of the FAHMP (Reservoir Shoreline Riparian Planting) describes this requirement.
EAC 04	· Increase wetted habitat by creating new wetted channels and restoring back channels on the south bank island downstream of the dam.	Ongoing	In Compliance	BC Hydro completed phase 1 of the new wetted channels and restored back channels on the south bank island downstream of the dam in 2019. Section 6.2.1.1 of the FAHMP (Peace River Channel Contouring and Side Channel Enhancement) describes the plan for the new and restored back channels on the south bank island downstream of dam, associated with this condition. Phase 2 design is underway with construction completion expected by the end of 2023.
EAC 04	· Enhance side channel complexes between the dam site and the confluence of the Peace and Pine rivers during low flows.	Ongoing	In Compliance	BC Hydro substantially completed construction of the new wetted channels and restored back channels on the south bank island downstream of the dam in 2019. The side channel enhancements planned for the north bank of the Peace River are under review, given geotechnical concerns associated with the landslide that occurred at these channels in 2018. Section 6.2.1.1 of the FAHMP (Peace River Channel Contouring and Side Channel Enhancement) describes the plan for the side channel enhancements, associated with this condition.
EAC 04	· Manage reservoir fluctuation within a 1.8 m maximum normal operating range from the maximum operating level of 461.8 m.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 04	· If the reservoir deviates from the normal operating range, the EAC Holder must report the event in accordance with water licence requirements.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 04	· Develop a feasible strategy for the salvage and relocation of stranded fish in habitats that are at risk of dewatering.	Ongoing	In Compliance	Section 4.5 (Fisheries and Aquatic Habitat Management) of the CEMP requires that Contractor EPPs contain a feasible strategy for the salvage and relocation of stranded fish in habitats that are at risk of dewatering. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 04	The EAC Holder must manage construction footprints to reduce the harmful Project effects on fish and fish habitat, in accordance with the conditions of the applicable Fisheries Act authorization(s) and direction provided by FLNR.	Ongoing	In Compliance	Construction footprints to reduce the harmful Project effects on fish and fish habitat are being managed in accordance with Fisheries Act authorizations 15-HPAC-00170 for site preparation activities and 15-HPAC-01160 for dam construction, reservoir preparation and filling, as well as any direction provided by the Ministry of Forests, Lands, Natural Resource Operations and Rural Development.
EAC 04	This draft Plan must be provided to FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to commencement of construction.	Complete	In Compliance	The Draft Fisheries and Aquatic Habitat Management Plan was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014.
EAC 04	The EAC Holder must file the Final Plan with EAO, FLNR, MOE and Aboriginal Groups a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The Final Fisheries and Aquatic Habitat Management Plan was submitted to regulatory agencies, governments, and Indigenous Nations on June 1, 2015. Revision 2 of the FAHMP was issued on December 20, 2021.
EAC 04	The EAC Holder must develop, implement and adhere to the Final Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The Fisheries and Aquatic Habitat Management Plan is being implemented as planned.
EAC 05	EAC Holder must manage harmful Project effects on fish during reservoir filling, turbine commissioning and operations by developing and implementing mitigation measures detailed in operational procedures developed by a QEP to:	Planning	Future Requirement	BC Hydro is implementing field trials in fall 2022 and spring 2023 to help refine the monitoring of dissolved gas in the tailwater and surrounding area. The final TDG (total dissolved gas) monitoring and mitigation plan is expected to be completed in spring/early summer 2023.
EAC 05	· Minimize levels of total dissolved oxygen gas in the tailwater;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 05	· Minimize levels of dissolved gas super-saturation	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 05	These operational procedures must be developed in consultation with FLNR and MOE prior to reservoir filling, and include monitoring activities.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 06	The EAC Holder must implement mitigation measures, as detailed in a Fish Passage Management Plan.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. The Fish Passage Management Plan included in the EIS (Volume 2 Appendix Q) describes the approach to manage fish passage. Following EAC condition 6, a revised Fish Passage Management Plan, which includes updates since submission of the EIS, was prepared by QEPs and submitted prior to Project activities that may affect upstream fish passage. The EIS (Volume 2 Section 12) identified the river diversion phase of construction as the first Project activity that is expected to affect upstream fish passage. BC Hydro prepared an updated revision to the Fish Passage Management Plan in November 2019, which was reviewed by regulatory agencies and Indigenous Nations and finalized in June 2020. The revised Fish Passage Management Plan takes into account input from Indigenous Nations that has been received and taken, information on the progress of the design and construction of the temporary and permanent fish passage facilities, plans for the operation of the facilities, and a protocol to address genetic differences for small fish species. The plan also references the monitoring of fish movement and fish passage that is described in the Project's Fisheries and Aquatic Habitat Monitoring and Follow-up Program.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 06	The Fish Passage Management Plan must be developed by a QEP.	Complete	In Compliance	BC Hydro acknowledges and understands this condition. The Fish Passage Management Plan included in the EIS (Volume 2 Appendix Q) describes the approach to manage fish passage. Following EAC condition 6, a revised Fish Passage Management Plan, which includes updates since submission of the EIS, was prepared by QEPs and submitted prior to Project activities that may affect upstream fish passage. The EIS (Volume 2 Section 12) identified the river diversion phase of construction as the first Project activity that is expected to affect upstream fish passage. The revised Fish Passage Management Plan took into account input from Indigenous Nations that has been received and taken, information on the progress of the design and construction of the temporary and permanent fish passage facilities, plans for the operation of the facilities, and a protocol to address genetic differences for small fish species. The plan also reference the monitoring of fish movement and fish passage that is described in the Project's Fisheries and Aquatic Habitat Monitoring and Follow-up Program. Progress with the EAC requirements related to Fish and Fish Habitat in 2019 helped to prepare for river diversion, which occurred in September 2020. Monitoring of fish and fish habitat continued to document conditions prior to and during river diversion. As well, an updated Fish Passage Management was prepared and reviewed with Indigenous Nations and fisheries agencies. A Fish Passage Management Plan, developed by QEPs, was submitted to the EAO on June 3, 2020.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 06	The Fish Passage Management Plan must include at least the following: · Establish a periodic capture data base/protocol/methodology for small-fish species to assess genetic exchange between upstream and downstream fish populations. Data must be provided annually to the relevant federal and provincial agencies.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. The Fish Passage Management Plan included in the EIS (Volume 2 Appendix Q) describes the approach to manage fish passage. Following EAC condition 6, a revised Fish Passage Management Plan, which includes updates since submission of the EIS, was prepared by QEPs and submitted prior to Project activities that may affect upstream fish passage. The EIS (Volume 2 Section 12) identified the river diversion phase of construction as the first Project activity that is expected to affect upstream fish passage. BC Hydro prepared an updated revision to the Fish Passage Management Plan in November 2019, which was reviewed by regulatory agencies and Indigenous Nations and finalized in June 2020. The revised Fish Passage Management Plan takes into account input from Indigenous Nations that has been received and taken, information on the progress of the design and construction of the temporary and permanent fish passage facilities, plans for the operation of the facilities, and a protocol to address genetic differences for small fish species. The plan also references the monitoring of fish movement and fish passage that is described in the Project's Fisheries and Aquatic Habitat Monitoring and Follow-up Program. Progress with the EAC requirements related to Fish and Fish Habitat in 2020 helped to prepare for river diversion, which occured in September 2020. Monitoring of fish and fish habitat continued to document conditions prior to and during river diversion. As well, an updated Fish Passage Management was prepared and reviewed with Indigenous Nations and fisheries agencies.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 06	· Address genetic differences exceeding beyond a pre- defined threshold (to be determined through discussion with the agencies) by implementing a translocation program.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. The Fish Passage Management Plan included in the EIS (Volume 2 Appendix Q) describes the approach to manage fish passage. Following EAC condition 6, a revised Fish Passage Management Plan, which includes updates since submission of the EIS, was prepared by QEPs and submitted prior to Project activities that may affect upstream fish passage. The EIS (Volume 2 Section 12) identified the river diversion phase of construction as the first Project activity that is expected to affect upstream fish passage. BC Hydro prepared an updated revision to the Fish Passage Management Plan in November 2019, which was reviewed by regulatory agencies and Indigenous Nations and finalized in June 2020. The revised Fish Passage Management Plan takes into account input from Indigenous Nations that has been received and taken, information on the progress of the design and construction of the temporary and permanent fish passage facilities, plans for the operation of the facilities, and a protocol to address genetic differences for small fish species. The plan also references the monitoring of fish movement and fish passage that is described in the Project's Fisheries and Aquatic Habitat Monitoring and Follow-up Program. Progress with the EAC requirements related to Fish and Fish Habitat in 2020 helped to prepare for river diversion, which occured in September 2020. Monitoring of fish and fish habitat continued to document conditions prior to and during river diversion. As well, an updated Fish Passage Management was prepared and reviewed with Indigenous Nations and fisheries agencies.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 06	· Design the installation and use of a trap and haul facility.	Complete	In Compliance	BC Hydro acknowledges and understands this condition. The Fish Passage Management Plan included in the EIS (Volume 2 Appendix Q) describes the approach to manage fish passage. Following EAC condition 6, a revised Fish Passage Management Plan, which includes updates since submission of the EIS, was prepared by QEPs and submitted prior to Project activities that may affect upstream fish passage. The EIS (Volume 2 Section 12) identified the river diversion phase of construction as the first Project activity that is expected to affect upstream fish passage. BC Hydro prepared an updated revision to the Fish Passage Management Plan in November 2019, which was reviewed by regulatory agencies and Indigenous Nations and finalized in June 2020. The revised Fish Passage Management Plan takes into account input from Indigenous Nations that has been received and taken, information on the progress of the design and construction of the temporary and permanent fish passage facilities, plans for the operation of the facilities, and a protocol to address genetic differences for small fish species. The plan also references the monitoring of fish movement and fish passage that is described in the Project's Fisheries and Aquatic Habitat Monitoring and Follow-up Program. BC Hydro constructed, commissioned and operated the temporary upstream fish passage facility in 2020.
EAC 06	This draft Fish Passage Management Plan must be provided to FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to Project activities that may impact upstream fish passage.	Complete	In Compliance	Revision 0 of the Fish Passage Management Plan was included in the Environmental Impact Statement, dated January 12, 2012. Revision 1 (draft) was shared with Indigenous Nations and regulatory agencies on November 18, 2019.
EAC 06	The EAC Holder must file the final Fish Passage Management Plan with EAO, FLNR, MOE and Aboriginal Groups a minimum of 30 days prior to Project activities that may impact upstream fish passage.	Complete	In Compliance	The final (Revision 2) Fish Passage Management Plan was issued on June 2, 2020, prior to river diversion in October 2020.
EAC 06	The EAC Holder must develop, implement and adhere to the final Fish Passage Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 07	The EAC Holder must develop a Fisheries and Aquatic Habitat Monitoring and Follow-up Program to assess the effectiveness of measures to mitigate Project effects on healthy fish populations in the Peace River and tributaries, and, if recommended by a QEP or FLNR, to assess the need to adjust those measures to adequately mitigate the Project's effects.	Ongoing	In Compliance	A Fisheries and Aquatic Habitat Monitoring and Follow-up Program (FAHMFP) was submitted to the EAO on December 22, 2015. The FAHMFP provides for: a) monitoring fish and fish habitat during construction and operation of the Site C Clean Energy Project (the Project), and b) an outline for a procedure to evaluate and implement future mitigation and compensation options during operation of the Project. The types of monitoring and the outline of procedures for evaluation and implementation required by Condition 7 of the EAC are provided for in this FAHMFP. The monitoring will provide information that can be used to assess the effectiveness of the mitigation measures described in the Fisheries and Aquatic Habitat Management Plan.
EAC 07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must be developed by a QEP.	Complete	In Compliance	Section 7.0 of the FAHMFP lists the QEPs who prepared the program.
EAC 07	The Program must include monitoring during construction for at least the following: · Effectiveness of standard mitigation measures for reducing sedimentation and fish stranding in the construction headpond and proximal reach of the river downstream of the dam.	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring and Follow-up Program, and Mon-12 Site C Fish Stranding Monitoring Program, which are included in the FAHMFP as Appendices C and M, respectively. Data collection/monitoring for Mon-3 is ongoing. Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.
EAC 07	· Accuracy of predictions about physical changes to habitat in the reservoir area during the development and operation of the construction headpond during the diversion stage of the Project.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. This requirement is addressed in Mon-3 Peace River Physical Habitat Monitoring Program, which is included as Appendix C of the FAHMFP. Data collection/monitoring for Mon-3 is ongoing. Progress with the EAC requirements related to Fish and Fish Habitat in 2020 helped to prepare for river diversion, which occured in September 2020. Monitoring of fish and fish habitat continued to document conditions prior to and during river diversion.
EAC 07	· Documenting, at an appropriate scale, spatial and temporal changes occurring in physical environmental conditions resulting from headpond hydrology, and in localized areas in relation to the effects of construction activities and mitigation procedures.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. This requirement is addressed in Mon-3 Peace River Physical Habitat Monitoring Program, which is included as Appendix C of the FAHMFP. Data collection/monitoring for Mon-3 is ongoing.
EAC 07	· Effectiveness of mitigation measures for management of predicted effects of sediment and fish stranding, and provide information required to adjust the mitigation program to reduce unforeseen adverse effects, as required.	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring, and Mon-12 Site C Fish Stranding Monitoring, included as Appendices C and M of the FAHMFP. Data collection/monitoring for Mon-3 is ongoing. Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 07	· Total dissolved gas.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. This requirement is addressed in Mon-11 Site C Total Dissolved Gas Monitoring Program, which is included as Appendix L of the FAHMFP. Data collection/monitoring for Mon-11 is scheduled to occur in future years.
EAC 07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must include monitoring during operations for a period of twenty years for at least the following: · Continued effectiveness of environmental protection measures undertaken during construction to mitigate effects on fish and fish habitat.	Planning	Future Requirement	This requirement will be met through implementation of the Site C FAHMFP as described in FAHMFP Section 6 and the supporting monitoring plans, which are included as Appendices A - Q of the FAHMFP.
EAC 07	· Total dissolved gas.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. This requirement is addressed in Mon-11 Site C Total Dissolved Gas Monitoring Program, which is included as Appendix L of the FAHMFP. Data collection/monitoring for Mon-11 is scheduled to occur in future years.
EAC 07	· Meeting monitoring commitments as per the Fish Passage Management Plan.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. This requirement is addressed in: 1) Mon-13 Site C Fishway Effectiveness Monitoring; 2) Mon-14 Site C Trap and Haul Fish Release Location Monitoring Program; and 3) Mon-15 Site C Small Fish Species Translocation Monitoring Program. These monitoring plans are included as Appendices N – P of the FAHMFP. Data collection/monitoring for Mon-13, Mon-14, and Mon-15 is underway.
EAC 07	· Implement on-site monitoring of fish habitat areas in the side channel and mainstream margins, resulting from water fluctuations.	Ongoing	In Compliance	These requirements are addressed in Mon-3 Peace River Physical Habitat Monitoring, and Mon-12 Site C Fish Stranding Monitoring, included as Appendices C and M of the FAHMFP. Data collection/monitoring for Mon-3 is ongoing. Monitoring of fish stranding sites is ongoing for Mon-12, the fish stranding monitoring program.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 07	· Fish and fish habitat productivity, for reservoir, reservoir tributaries, and for downstream Peace River.	Ongoing	In Compliance	This requirement is addressed in the following programs (status in parenthesis): 1) Mon-1a Site C Reservoir Fish Community Monitoring Program (scheduled to occur in future years) 2) Mon-1b Site C Reservoir Tributaries Fish Community and Spawning Monitoring Program (Peace River Bull Trout Spawning Assessment is ongoing; Site C Reservoir Tributaries fish population indexing survey is ongoing) 3) Mon-2 Peace River Fish Community Monitoring Program (ongoing) 4) Mon-3 Peace River Physical Habitat Monitoring Program (ongoing) 5) Mon-4 Site C Reservoir Riparian Vegetation Monitoring Program (ongoing) 6) Mon-5 Peace River Riparian Vegetation Monitoring Program (ongoing) 7) Mon-6 Site C Reservoir Fish Food Organisms Monitoring Program (scheduled to occur in future years) 8) Mon-7 Peace River Fish Food Organisms Monitoring Program (ongoing) 9) Mon-8 Site C Reservoir Water and Sediment Quality Monitoring Program (general water and sediment quality monitoring, temperature monitoring, and turbidity monitoring are ongoing). 10) Mon-9 Peace River Water and Sediment Quality Monitoring Program (ongoing) The monitoring plans are included as Appendices A – J of the Fisheries and Aquatic Habitat Monitoring and Follow-up Program.
EAC 07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program must outline a procedure for evaluating future mitigation and compensation options after reservoir development and follow-up monitoring, as well as procedures for how compensation options that are technically and economically feasible will be implemented.	Complete	In Compliance	This requirement is addressed in Section 7.0 of the FAHMFP (Framework to Implement Future Compensation Actions).
EAC 07	The Fisheries and Aquatic Habitat Monitoring and Follow-up Program reporting must occur at least annually during construction and operations beginning 180 days following commencement of construction and operations phases, or in accordance with the applicable Fisheries Act authorization(s).	Ongoing	In Compliance	BC Hydro submits Annual Reports for the FAHMFP on March 1 each year, with the first report submitted March 1, 2017, and the most recent on March 1, 2022. These reports describe the status of each component of the FAHMFP.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 07	The EAC Holder must provide this draft Fisheries and Aquatic Habitat Monitoring and Follow-up Program to FLNR, MOE and Aboriginal Groups for review within 90 days following the commencement of the construction and operations phases.	Complete	In Compliance	The draft FAHMFP was submitted to regulatory agencies and Indigenous Nations on June 1, 2015.
EAC 07	The EAC Holder must file the final Fisheries and Aquatic Habitat Monitoring and Follow-up Program with EAO, FLN, MOE and Aboriginal Groups within 150 days following the commencement of the construction and operations phases.	Complete	In Compliance	The final FAHMFP was submitted to regulatory agencies and Indigenous Nations on December 22, 2015.
EAC 07	The EAC Holder must develop, implement and adhere to the final Fisheries and Aquatic Habitat Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro submitted the 2021 Annual Report for the FAHMFP on March 1, 2022. The report describes the status of each component of the FAHMFP. All of the monitoring programs that were scheduled to occur in 2021 were implemented. In support of meeting Fish and Fish Habitat conditions, a Fisheries and Aquatic Habitat Mitigation and Monitoring Technical Committee has been established with MOE, FLNR and Fisheries and Oceans Canada (DFO) staff to: - review the approach and outcome of mitigation and monitoring plans, provide technical recommendations to BC Hydro and regulatory agencies, and endorse relevant plans, - provide technical advice during plan implementation, - provide recommendations for adaptive management where needed, and - provide a mechanism to resolve areas of disagreement on technical or policy matters.
	VEGETATION AND ECOLOGICAL COMMUNITIES			
EAC 08	The EAC Holder must develop a Soil Management, Site Restoration, and Re-vegetation Plan to effectively manage disturbed soils, and to reclaim and revegetate disturbed construction areas to a safe and environmentally acceptable condition.	Complete	In Compliance	The Soil Management, Site Restoration, and Re-vegetation Plan is described in Section 4.12 of the CEMP for the Project. Section 4.12 of the CEMP was revised in both Revision 4 (issued July 2016) and Revision 5 (issued February 2019) to include new and/or updated requirements for soil management and site restoration. In addition, BC Hydro retained a new QEP responsible for site restoration and invasive weed management in July 2017. This QEP is based out of the Construction Office at site. No further material revisions have been made to Section 4.12 of the CEMP between Revision 5 and the current revision of the CEMP (Revision 8), which was issued in September 2021.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 08	The Soil Management, Site Restoration, and Re-vegetation Plan must be developed by a QEP.	Complete	In Compliance	The Soil Management, Site Restoration, and Re-vegetation Plan is described in Section 4.12 of the CEMP. Section 6.0 of the CEMP lists the QEPs who prepared the plan. In 2016, the Soil Management, Site Restoration, and Re-vegetation Plan was reviewed and revised by the Vegetation and Wildlife Technical Committee (VWTC), which is composed of members from the MOE, the MFLNRO and Canadian Wildlife Services.
EAC 08	The Soil Management, Site Restoration, and Re-vegetation Plan must include at least the following: · Soil storage and handling measures that will maximize native soil use in restoration efforts, and manage incidental introduction and spread of invasive species.	Ongoing	In Compliance	Section 4.12 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. BC Hydro also developed the Invasive Weed Mitigation and Adaptive Management Plan(Revision 7, August 2020), which has been issued to contractors for incorporation into their plans.
EAC 08	· Manage run-off so that it is directed around soil stockpiles and areas where excavation, spoil placement, and staging activities occur.	Ongoing	In Compliance	Section 4.4 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	· Progressive closure and reclamation of any temporary disturbance. Disturbed sites are replanted within one year with ground cover, shrubs, or trees that are regionally appropriate once erosion concerns have been addressed.	Ongoing	In Compliance	Section 4.12 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 08	· Identify native seed mixes used for site restoration and revegetation purposes.	Ongoing	In Compliance	Section 4.12 and Appendix H of the CEMP require that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Section 4.12 was revised for Revision 5 of the CEMP (issued February 2019) to allow for the use of non-native seed mixes, together with native seed mixes, during initial site revegetation. These revisions are intended to improve effectiveness of erosion control measures at site while continuing to meet the project's long-term objective of achieving a sustainable native species ecosystem.
EAC 08	· Identify traditional use plants for revegetation purposes, in consultation with Aboriginal Groups.	Ongoing	In Compliance	Plant species of high traditional Indigenous value are being identified (per EAC 25) and will be included in the mix of species considered for re-vegetation activities conducted under the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP). See EAC conditions 25 and 26 below.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 08	The EAC Holder must provide this draft Plan to FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The Soil Management Site Restoration, and Re-vegetation Plan is described in Section 4.12 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on June 5, 2015. Revision 2 of the CEMP was issued in February 2016, Revision 4 in July 2016 (Revision 3 was not formally published), Revision 5.1 in May 2019, Revision 6 in July 2019, Revision 6.1 in December 2019 and Revision 7 in September 2020.
EAC 08	The EAC Holder must file the final Soil Management, Site Restoration, and Re-vegetation Plan with EAO, FLNR, MOE, Aboriginal Groups, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final (Revision 1), containing the Soil Management, Site REstoration and Re-vegetation Plan, of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to EAO, FLNR, MOE, Indigenous Nations, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope in accordance with requirements.
EAC 08	The EAC Holder must develop, implement and adhere to the final Soil Management, Site Restoration, and Re- vegetation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.12 and Appendix H of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 09	The EAC Holder must develop a Vegetation and Invasive Plant Management Plan to protect ecosystems, plant habitats, plant communities, and vegetation with components applicable to the construction phase.	Ongoing	In Compliance	Section 4.15 and Appendix K of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 09	The Vegetation and Invasive Plant Management Plan must be developed by a QEP.	Complete	In Compliance	The Vegetation and Invasive Plant Management Plan is described in Section 4.15 of the Construction Environmental Management Plan (CEMP). Section 6.0 of the CEMP lists the QPs who prepared the plan. In addition to improving the CEMP requirements regarding soil management and site restoration, in July 2017 BC Hydro retained a new staff QEP person responsible for site restoration and invasive weed management, based out of the Construction Office at site.
EAC 09	The Vegetation and Invasive Plant Management Plan must include at least the following: **Invasive Species** · Surveys of existing invasive species populations prior to construction.	Ongoing	In Compliance	Surveys of existing invasive species populations are required as part of all EPPs, and therefore before all works that may involve disturbing soil or vegetation. BC Hydro has retained a contractor to complete invasive species management across all areas of the project.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 09	· Invasive plant control measures to manage established invasive species populations and to prevent invasive species establishment.	Ongoing	In Compliance	Section 4.15 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. The Invasive Weed Mitigation and Adaptive Management Plan (IWMAMP) includes herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including the use of vehicle inspection forms. Rev 6 of the IWMAMP was completed and has been rolled out to some contractors. To date, contractors have completed the following: invasive plant removal through hand pulling, on-going inventories of invasive plant locations, extensive hydroseeding of exposed slopes across the Project area, regular vehicle inspections and cleaning through various methods to ensure vehicles are clean and free of dirt and invasive plants when transitioning between sites and into the Project area. BC Hydro implemented an Invasive Species Management Contractor that completed a control program across the dam site in September and October 2017. That contractor has continued into 2019 across all areas of the project and this will continue for the remainder of the project lifespan. The Main Civil Works contractor has retained an invasive plant species specialist to advise on invasive plant species management. BC Hydro installed two temporary rinse stations at Gate A and Gate B in July 2017. The temporary wash stations were decommissioned at the onset of winter conditions in 2017 and procurement was completed for a permanent wash station. Construction of the permanent rinse station was completed by Oct 2019 and operations began in 2020.
EAC 09	**Rare Plants and Sensitive Ecosystems** · The EAC Holder must expand its modelling, including completing field work, to improve identification of rare and sensitive plant communities and aid in delineation of habitats that may require extra care, 90 days prior to any Project activities that may affect these rare or sensitive plant communities	Complete	In Compliance	Field surveys in support of expanding modelling to improve the identification of rare and sensitive plant communities were completed in 2015. The results of these field surveys are described in the 2015 Annual Report for the VWMMP, provided to agencies on January 22, 2016.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 09	· The EAC Holder must, with the use of a QEP, complete an inventory in areas not already surveyed and use rare plant location information as inputs to final design of access roads and transmission lines.	Ongoing	In Compliance	For 2021, pre-construction rare plant surveys were focussed on the remaining segments of Highway 29 realignment corridors on the north side of the Peace River, access roads on the south side of the Peace River, and on the Del Rio and Area E proposed aggregate extraction sites as well as the Area E proposed haul road. The complete 2020 program report will be provided in the 2021 Annual Report for the VWMMP, which will be provided to agencies by 31 March 2022.
EAC 09	These pre- construction surveys must target rare plants as defined in Section 13.2.2 of the EIS —including vascular plants, mosses, and lichens.	Ongoing	In Compliance	Pre-construction surveys are targeting rare plants as defined in Section 13.2.2 of the EIS. The complete 2021 program report will be provided in the 2021 Annual Report for the VWMMP, which will be provided to agencies by 31 March 2022.
EAC 09	· The EAC Holder must create and maintain a spatial database of known rare plant occurrences in the vicinity of Project components that must be searched to avoid effects to rare plants during construction activities.	Ongoing	In Compliance	A spatial database of rare plant occurrences in the vicinity of Project Components is captured in the spatial Environmental Features Database. The Environmental Features Database was updated with the 2021 rare plant data on 14 September, when it was available to contractors for use in planning.
EAC 09	The database must be updated as new information becomes available and any findings of new rare plant species occurrences must be submitted to Environment Canada and MOE using provincial data collection standards.	Ongoing	In Compliance	A spatial database of rare plant occurrences in the vicinity of Project Components is captured in the spatial Environmental Features Database. The Environmental Features Database was updated with the 2021 rare plant data on 14 September, when it was available to contractors for use in planning. The 2021 rare plant data were submitted to the Program Botanist at the BC Conservation Data Center, MOE on 28 January, 2022.
EAC 09	· The EAC Holder must implement construction methods to reduce the impact to rare plants, maximize use of existing access corridors, and construct transmission towers and temporary roads away from wetlands and known rare plant occurrences.	Ongoing	In Compliance	Section 4.17 of the CEMP requires avoiding impacts to Important Wildlife Areas, such as wetlands, to the degree feasible. Except within the dam site area, on designated access roads and during clearing, construction activities shall be prohibited within 15 m of the Ordinary High Water Mark of streams or wetlands, unless the activity was described in the EIS and is accepted by BC Hydro. Rare plant occurrences are identified through focussed surveys, and impacts to rare plant occurrences are avoided to the degree feasible, as described in Sections 4.15 and 4.18 of the CEMP. Impacted occurrences of rare plants are mitigated through implementation of the Experimental Rare Plant Translocation Program.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 09	· Protect known occurrences of Tufa seeps, wetlands and rare plants located adjacent to construction areas. Install signage and flagging where necessary, as determined by the QEP, to indicate the boundaries of the exclusion area.	Ongoing	In Compliance	Tufa seeps are present on the south bank of the eastern reservoir, where clearing ocurred in 2019. Mitigation to minimize impacts on the tufa seep consisted of no ground equipment within the feature, and trees were directionally felled away from the tufa seep to the degree feasible. A tufa seep will be partially impacted due to the construction of the Hudson's Hope shoreline protection berm, which began in 2021 and is planned to continue in 2022. Impacts are being reduced through design and fencing is planned to protect areas of the tufa seep that can be avoided. Prior to filter placement, rock hammer usage on the tufa was limited to overhangs and other inconsistent gradients as opposed to a full excavation. Also, one of the larger seep's flows was diverted, minimizing impacts necessary for construction of that section of the berm. A tufa seep is present on the north bank pf the Peace River at Bear Flat/Cache creek. Clearing occurred in the vicinity of the tufa seep in 2020.Impacts to the seep itself were avoided during construction. A drainage channel was constructed at the west/rear edge of the Pier 1 berm for the Cache Creek Bridge so that the seep will run off the North and South edges of the berm.
EAC 09	· The EAC Holder will engage the services of a Rare Plant Botanist during construction to design and implement an experimental rare plant translocation program in consultation with MOE using the BC MOE's Guidelines for Translocation of Plant Species at Risk in BC (Maslovat, 2009).	Ongoing	In Compliance	A tufa seep will be partially impacted due to the construction of the Hudson's Hope shoreline protection berm, which began in 2021 and is planned to continue in 2022. Impacts are being reduced through design and fencing is planned to protect areas of the tufa seep that can be avoided. Prior to filter placement, rock hammer usage on the tufa was limited to overhangs and other inconsistent gradients as opposed to a full excavation. Also, one of the larger seep's flows was diverted, minimizing impacts necessary for construction of that section of the berm.
EAC 09	The EAC Holder must provide this draft Vegetation and Invasive Plant Management Plan to Environment Canada, FLNR, MOE, and Aboriginal Groups for review a minimum of 90 days prior to construction and operation phases.	Complete	In Compliance	The Vegetation and Invasive Plant Management Plan is described in Section 8.1 of the VWMMP. The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively.
EAC 09	The EAC Holder must file the final Vegetation and Invasive Plant Management Plan with EAO, Environment Canada, FLNR, MOE, and Aboriginal Groups, a minimum of 30 days prior to construction and operation phases.	Complete	In Compliance	The final Vegetation and Invasive Plant Management Plan was submitted to regulatory agencies and Indigenous Nations on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 09	The EAC Holder must develop, implement and adhere to the final Vegetation and Invasive Plant Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.15 and Appendix K of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Appendix K of the CEMP (Invasive Weed Mitigation and Adaptive Management Plan, IWMAMP) includes herbicide based invasive plant management in the dam site area, and the expansion of the vehicle cleanliness program, including the use of vehicle and equipment inspection forms. Rev 7 of the IWMAMP was issued August 2020 and distributed to project contractors. To date, contractors have completed the following: invasive plant removal through hand pulling; on-going inventories of invasive plant locations; extensive hydroseeding of exposed slopes across the Project area; and regular vehicle inspections and cleaning through various methods to ensure vehicles are clean and free of dirt and invasive plants when transitioning between sites and into the Project area. In 2017, BC Hydro implemented an Invasive Species Management Contractor to complete an invasive species control program across the dam site. This program has continued through 2021 and is scheduled to continue until the end of the project. The Main Civil Works contractor has also retained an invasive plant species specialist to advise on invasive plant species management. BC Hydro installed two temporary wash stations at Gate A and Gate B in July 2017. The temporary wash stations were decommissioned at the onset of winter conditions in 2017 and procurement was completed for a permanent wash station. Construction of the permanent rinse station was completed in October 2019 and operations began in 2020.
EAC 10	The EAC Holder must fund or undertake directly with the use of a Rare Plant Botanist the following, during construction: · Targeted surveys in the RAA (as defined in the amended EIS) to identify occurrences of the 18 directly affected rare plant species (as defined in the amended EIS), and rare plant species identified by the MOEs Conservation Framework requiring additional inventories.	Complete	In Compliance	The requirement for targeted surveys in the Regional Assessment Area (RAA) is addressed in Section 7.4.7 Part B Supplemental Regional Rare Plant Surveys (see also S. 8.2.2) of the VWMMP. Targeted surveys in the RAA began in 2016 and were completed in 2017. The final report of the targeted rare plant surveys in the RAA was included in the 2017 Annual Report for the VWMMP, which was submitted to regulatory agencies and Indigenous Nations in March, 2018.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 10	· A study focused on clarifying the taxonomy of Ochroleucus bladderwort (Utricularia ochroleuca), including field, herbaria, and genetic work in consultation with FLNR and the MOE (BC Conservation Data Centre).	Complete	In Compliance	On March 22, 2016, BC Hydro submitted a letter to the Conservation Data Centre indicating that the taxonomy of Ochroleucus bladderwort had been completed by the BC MOE, and therefore no further work was required by BC Hydro. On March 24, 2016, the Conservation Data Centre confirmed the same understanding. Based on this information no further work is planned.
EAC 10	The EAC Holder must provide FLNR and MOE (BC Conservation Data Centre) with the findings and analysis of results from the surveys and taxonomic study.	Complete	In Compliance	Results of the targeted surveys are provided to FLNR and MOE in the 2017 Annual Report for the VWMMP. The 2017 rare plant data were submitted to the Program Botanist at the BC Conservation Data Center, MOE on 2 November 2017 and 6 February 2018. As noted above, no further work is required on taxonomy of Ochroleucus bladderwort.
EAC 11	The EAC Holder must compensate for the loss of rare and sensitive habitats and protect occurrences of rare plants by developing, or funding the development and implementation of a compensation program, during construction, that includes:	Ongoing	In Compliance	The experimental rare plant translocation program continued in 2021. This program will enhance habitat by increasing the density of rare plants in suitable habitat, using propagules that were salvaged from all areas that will be impacted by the Project. Work to collect seeds and salvage rare plants under this program occurred in 2021, along with propagation trials, translocation and monitoring. The complete 2021 program report will be provided in the 2021 Annual Report for the VWMMP, which will be provided to agencies by 31 March 2022.
EAC 11	· Assistance (financial or in-kind) to the managing organization of suitable habitat enhancement projects in the RAA (RAA as defined in the amended EIS).	Ongoing	In Compliance	Habitat enhancement activities to compensate for the loss of rare and sensitive habitats and for protecting occurrences of rare plants are being conducted through Ducks Unlimited for wetland compensation activities and Ecologic Consultants through the Saulteau-EBA Environmental Services Joint Venture for the Rare Plant Translocation Program.
EAC 11	· Direct purchase of lands in the RAA and manage these lands and suitable existing properties owned by the EAC Holder to enhance or retain rare plant values where opportunities exist.	Ongoing	In Compliance	In 2014 BC Hydro purchased the Marl Fen property located outside Hudson's Hope. This property supports several rare plant species. This property is being managed to maintain rare plants along with other wildlife and vegetation values. Results of surveys documenting species that are using the property are provided in the 2015 Annual Report for the VWWMP. BC Hydro continues to seek direct purchase of lands in the RAA to meet the requirements of this condition.
EAC 11	The EAC Holder must engage with FLNR, MOE and Aboriginal Groups with regard to the development of the compensation program.	Ongoing	In Compliance	The compensation plan is described in the VWMMP, Section 7.4.4 Part D. The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015. Consultation is ongoing. Consultation with FLNRORD and MOE is occurring through the VWTC. Consultation with Indigenous Nations is occurring through Permitting Forums and Environmental Forums.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 12	The EAC Holder must develop a Wetland Mitigation and Compensation Plan.	Ongoing	In Compliance	The Wetland Mitigation and Compensation Plan is described in Section 7.3 (see also Section 8.4) of the VWMMP. Details of the Wetland Mitigation and Compensation Plan continue to be developed as wetland enhancement projects are identified and implemented in the Peace Region.
EAC 12	The Wetland Mitigation and Compensation Plan must include an assessment of wetland function lost as a result of the Project that is important to migratory birds and species at risk (wildlife and plants).	Ongoing	In Compliance	Drafts of the assessment of wetland function were provided in the 2015 and 2016 Annual Report for the VWMMP. A revised assessment of wetland function was provided in the 2018 Annual Report for the VWMMP. BC Hydro continues to monitor wetland function lost as a result of the Project and mitigate in accordance with the requirements of the EAC.
EAC 12	The Wetland Mitigation and Compensation Plan must be developed by a QEP with experience in wetland enhancement, maintenance and development.	Complete	In Compliance	The Wetland Mitigation and Compensation Plan is described in Section 7.3 (see also Section 8.4) of the VWMMP. Section 2.3 of the Plan lists the QEPs who prepared the plan.
EAC 12	The Wetland Mitigation and Compensation Plan must include at least the following: · Information on location, size and type of wetlands affected by the Project;	Ongoing	In Compliance	Data on wetland location, size and type gathered during baseline surveys are summarized in Section 7.3.3 of the VWMMP. To gather additional site-specific data on wetlands within the Project footprint, BC Hydro, in cooperation with Ducks Unlimited, has developed a wetland monitoring plan as a component of the assessment of wetland function. Wetland monitoring has been occurring in the Local Assessment Area (as defined in the Project's Environmental Impact Statement) prior to and during construction, and this monitoring plan will provide additional structure to identify and fill key information gaps needed to better understand Project impacts to wetlands and to help inform the determination of appropriate compensation. The wetland monitoring plan was implemented in Spring of 2018. The complete 2021 program report will be provided in the 2021 Annual Report for the VWMMP, which will be provided to agencies by 31 March 2022.
EAC 12	· If roads cannot avoid wetlands, culverts will be installed under access roads to maintain hydrological balance, and sedimentation barriers will be installed;	Ongoing	In Compliance	Culverts are installed under access roads where necessary to maintain hydrological balance, and sedimentation barriers installed as required, as described in Section 4.4 of the CEMP.
EAC 12	· Stormwater management will be designed to control runoff and direct it away from work areas where excavation, spoil placement, and staging activities occur.	Ongoing	In Compliance	Stormwater across the site is managed by contractors under the Erosion and Sediment Control Program. Management includes installation of sedimentation ponds and interception ditches. Interception ditches capture and divert stormwater away from construction areas into the sedimentation ponds. Water from the sedimentation ponds is discharged into surrounding environment.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 12	· Develop, with the assistance of a hydrologist, site-specific measures prior to construction to reduce changes to the existing hydrologic balance and wetland function during construction of the Jackfish Lake Road and Project access roads and transmission line.	Ongoing	In Compliance	BC Hydro engaged a forestry consultant to design access roads and clearing prescriptions along the transmission line. A hydrologist on staff with the forestry consultant reviewed the design to ensure that the hydrology of wetlands along the transmission line is maintained. Most access road construction works were completed in 2019. The design and construction of any remaining roads required for decommissioning of the 138 kV lines will continue to involve input from the consultant hydrologist to ensure compliance with this condition.
EAC 12	· All activities that involve potentially harmful or toxic substances, such as oil, fuel, antifreeze, and concrete, must follow approved work practices and consider the provincial BMP guidebook Develop with Care (BC Ministry of Environment 2012 or as amended from time to time).	Ongoing	In Compliance	Sections 4.8 and 4.13 of the CEMP require contractors to follow approved work practices and BMPs with regard to potentially harmful or toxic substances. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 12	· A defined mitigation hierarchy that prioritizes mitigation actions to be undertaken, including but not limited to: o Avoid direct effects where feasible; o Minimize direct effects where avoidance is not feasible; o Maintain or improve hydrology where avoidance is not feasible; o Replace like for like where wetlands will be lost, in terms of functions and compensation in terms of area; o Improve the function of existing wetland habitats; and o Create new wetland habitat	Ongoing	In Compliance	The CEMP describes how impacts to wetlands are avoided or minimized to the degree feasible, including through the maintenance or improvement of hydrology. In 2016 BC Hydro and Ducks Unlimited initiated the process of identifying wetland mitigation opportunities that could become components of the wetland mitigation plan. To date, BC Hydro has secured 2 properties for wetland compensation and is in the process of identifying further compensation opportunities on fee simple and Crown land to contribute towards fulfilling the plan requirements while also facilitating the current use of lands and resources by Indigenous Nations. The construction guidelines for Area A, a new wetland area to be completed as part of the dam site reclamation area, were submitted with the June 5, 2015 VWMMP, and have been incorporated as requirements in the Main Civil Works contract covering this area. Creation of this new wetland is planned to occur toward the end of the 8 year construction period, and will contribute toward wetland compensation requirements.
EAC 12	The EAC Holder must monitor construction and operation activities that could cause changes in wetland functions.	Ongoing	In Compliance	BC Hydro requires its contractors to describe in their EPPs construction activities that could cause changes in wetland functions, including how those construction activities will be monitored and at what frequency. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 12	The EAC Holder must provide this draft Wetland Mitigation and Compensation Plan to Environment Canada, FLNR, MOE, Aboriginal Groups, Peace River Regional District and District of Hudson's Hope for review a minimum of 90 days prior to any activity affecting the wetlands.	Complete	In Compliance	The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively.
EAC 12	The EAC Holder must file the final Wetland Mitigation and Compensation Plan with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, District of Hudson's Hope and Aboriginal Groups, a minimum of 30 days prior to any activity affecting the wetlands.	Complete	In Compliance	The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015.
EAC 12	The EAC Holder must develop, implement and adhere to the final Wetland Mitigation and Compensation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro has partnered with Ducks Unlimited and procured property to start fulfilling the Plan's wetland compensation requirements, with wetland compensation activities ongoing. To date, BC Hydro has secured 2 properties for wetland compensation and is in the process of identifying further compensation opportunities on fee simple and Crown land to contribute towards fulfilling the plan requirements while also facilitating the current use of lands and resources by Indigenous Nations.
EAC 13	The EAC Holder must develop the Vegetation Clearing and Debris Management Plan.	Complete	In Compliance	Revision 3 of the Vegetation Clearing and Debris Management Plan (VCDMP) was submitted to regulatory agencies and Indigenous Nations on July 29, 2019.
EAC 13	The Vegetation Clearing and Debris Management Plan must be developed by a QEP.	Complete	In Compliance	Section 11.0 of the VCDMP lists the QPs who prepared the plan.
EAC 13	The Vegetation Clearing and Debris Management Plan must ensure that clearing would be conducted in the approved Project Activity Zone only,	Ongoing	In Compliance	BC Hydro prepares the clearing plans for all work on the Site C Project. As part of this plan preparation, BC Hydro ensures that clearing boundaries are within the Project Activity Zone.
EAC 13	And construction would be monitored by the QEP to prevent any unnecessary clearing.	Ongoing	In Compliance	BC Hydro requires its contactors to prepare EPPs that include an explanation of environmental monitoring effort and that this monitoring occur by a QEP or under the supervision of a QEP.
EAC 13	Specific to the transmission line component of the Project: · The EAC Holder must not grub the right of way with the exception of transmission tower foundation pads, temporary work spaces and access roads.	Complete	In Compliance	Conductor stringing was completed on the transmission line between Site C and the Peace Canyon in February 2022. BC Hydro required its transmission line clearing and construction contractors to describe in their EPPs construction activities that comply with this condition's requirement. These EPPs were reviewed and accepted by BC Hydro and BC Hydro inspects the contractors for compliance with their EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 13	· Where conductor clearance allows, the EAC Holder must not remove riparian vegetation along watercourses or waterbodies crossed by the transmission corridor.	Complete	In Compliance	Conductor stringing was completed on the transmission line between Site C and the Peace Canyon in February 2022. A special prescription was in place for transmission line clearing that required retention of low growing willow species that are not expected to grow into the overhead conductor's limits of approach.
EAC 13	To reduce erosion along steep or unstable slopes, the EAC Holder must apply best management practices for reservoir clearing along riparian areas and watercourses.	Ongoing	In Compliance	The Riparian Vegetation Management Area (RVMA) buffer is established 15m back from the Ordinary High Water Mark (OHWM). Terrain Stability Field Assessments (TSFAs) are done by a terrain specialist to ensure any clearing on or near Terrain Class V (high likelihood of landslide initiation following timber harvesting or road construction) areas will not increase slope instability. Areas of potential instability will be removed until a TSFA can be completed. Steep areas will be handfelled (fall and leave) where safe to do so. Areas deemed unsafe or unstable will be left standing until inundation occurs. Boundary limits for clearing activities are flagged (orange ribbon) in the field.
EAC 13	Practices must include but not limited to the following: · Retention of all trees on steep, unstable slopes that would be highly susceptible to landslides if the vegetation was removed.	Ongoing	In Compliance	Clearing plans for the dam site area Moberly River drainage, eastern reservoir and middle reservoir have all had extensive Terrain Stability Field Assessments (TSFA) completed. All layouts have incorporated the recommendations of a geotechnical specialist and a spreadsheet recording recommendations and how they have been addressed in the field (with associated map references) has been developed by our forestry consultant. BC Hydro has also been provided the clearing plans and TSFA reports to review as the owner's geotechnical specialists.
EAC 13	· Retention of non-merchantable trees and vegetation in riparian areas within a 15 m buffer from the Ordinary High Water Mark.	Ongoing	In Compliance	Clearing prescriptions include descriptions on how Riparian Vegetation Management Area clearing is to be conducted and the level of Riparian Vegetation Management Area (RVMA) retention within each treatment unit (TU). The RVMA buffer is flagged in the field, 15m back from the Ordinary High Water Mark (OHWM).
EAC 13	Merchantable trees and vegetation that may protrude above 455 m elevation may still be removed using clearing practices to maintain a 15 m machine-free zone from the OHWM	Ongoing	In Compliance	This Condition was amended in February 2019, allowing for the selective use of mechanical clearing in riparian zones where safety prohibits manual falling. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 13	The EAC Holder must provide this draft Vegetation Clearing and Debris Management Plan to Environment Canada, FLNR, MOE, Aboriginal Groups, Peace River Regional District and District of Hudson's Hope for review a minimum of 90 days prior to commencement of construction.	Complete	In Compliance	The draft VCDMP was submitted to regulatory agencies, governments, and Indigenous Nations October 17, 2014.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 13	The EAC Holder must file the final Vegetation Clearing and Debris Management Plan with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The final VCDMP was submitted to regulatory agencies, governments, and Indigenous Nations on June 5, 2015, respectively. The VCDMP was updated in July 2019 to reflect the following changes: -Clarified that clearing contractors may be granted the merchantable timber as part of their clearing contract - Indicated that work within riparian areas may be requirement for the management of natural woody debris -Indicated that islands may be accessed by fording machinery/equipment, in addition to other methods - Expanded the description of naturally occurring woody debris and the need for its removal prior to river diversion
EAC 13	The EAC Holder must develop, implement and adhere to the final Vegetation Clearing and Debris Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The VCDMP is being implemented as planned.
EAC 14	The EAC Holder must develop a Vegetation and Ecological Communities Monitoring and Follow-up Program for the construction phase and first 10 years of the operations phase.	Complete	In Compliance	This requirement is addressed in Section 7.4.4, Part C of the VWMMP.
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program must be developed by a QEP.	Complete	In Compliance	The Vegetation and Ecological Communities Monitoring and Follow-up Program is described in Section 7.4.4, Part C of the VWMMP. Section 2.3 of the VWMMP lists the QEPs who prepared the plan.
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program must include at least the following: · Definition of the study design for the rare plant translocation program (see condition 9).	Ongoing	In Compliance	Development of the Rare Plant Translocation program began in 2016. The 2021 Annual Report for the VWMMP, to be submitted by March 31, 2022, provides an update on the status of the translocation program.
EAC 14	· Plan for following-up monitoring of any translocation sites to assess the survival and health of translocated rare plant species, under the supervision of a Rare Plant Botanist.	Ongoing	In Compliance	Development of the Rare Plant Translocation program began in 2016. The 2021 Annual Report for the VWMMP, to be submitted by March 31, 2022, provides an update on the status of the translocation program.
EAC 14	· Measurement criteria, including vegetation growth, persistence of rare plants and establishment / spread of invasive plant species, and associated monitoring to document the effectiveness of habitat enhancement and possible compensation programs.	Ongoing	In Compliance	The rare plant translocation monitoring program will document a suite of measurable parameters designed to evaluate the efficacy of translocation methods and management in relation to the stated objectives of the program. The monitoring program is in development and will not be required until after planting of propagated rare translocated plants. In 2021, the rare plant translocation program continued to collect propagules (seeds, whole plants) and identify suitable planting sites, while also conducting translocation and translocation monitoring.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 14	The Vegetation and Ecological Communities Monitoring and Follow-up Program reporting must occur annually during construction and the first 10 years of operations, beginning 180 days following commencement of construction.	Ongoing	In Compliance	BC Hydro provided the 2015 Annual Report on the implementation of the VWMMP on January 22, 2016, and has submitted subsequent annual reports before 31 March of each year. The 2021 Annual Report will be submitted by March 31, 2022.
EAC 14	The EAC Holder must provide this draft Vegetation and Ecological Communities Monitoring and Follow-up Program to Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John and Aboriginal Groups for review within 90 days after the commencement of construction.	Complete	In Compliance	This requirement is addressed in Section 7.4.4, Part C of the VWMMP. The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to the same recipients on June 5, 2015. The VCDMP was updated in July 2019 as noted above.
EAC 14	The EAC Holder must file the final Vegetation and Ecological Communities Monitoring and Follow-up Program with EAO, Environment Canada, FLNR, MOE, Peace River Regional District, City of Fort St. John, and Aboriginal Groups, within 150 days after commencement of construction.	Complete	In Compliance	The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015. The VCDMP was updated in July 2019 and provided to regulatory agencies and Indigenous Nations.
EAC 14	The EAC Holder must develop, implement and adhere to the final Vegetation and Ecological Communities Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro is adhering to the Vegetation and Ecological Communities Monitoring and Follow-up Program, as described in the Annual Report for the VWMMP. The 2021 Annual Report for the VWMMP will be submitted by March 31, 2022.
	WILDLIFE RESOURCES			
EAC 15	The EAC Holder must develop a Wildlife Management Plan.	Complete	In Compliance	The Wildlife Management Plan is described in Sections 3.0 and 4.17 of the CEMP and Section 8.6.2 of the VWMMP. The final VWMMP was developed and submitted to regulatory agencies, governments and Indigenous Nations on June 5, 2015.
EAC 15	The Wildlife Management Plan must be developed by a QEP.	Complete	In Compliance	The Wildlife Management Plan is described in Sections 3.0 and 4.17 of the CEMP and Section 8.6.2 of the VWMMP. Section 6.0 of the CEMP and Section 2.3 of the VWMMP lists the QEPs who prepared the plans.
EAC 15	The Wildlife Management Plan must include at least the following: · Field work, conducted by a QEP, to verify the modelled results for surveyed species at risk and determine, with specificity and by ecosystem, the habitat lost or fragmented for those species.	Complete	In Compliance	Results of the field work completed to verify the modelled results for surveyed species at risk was included in the 2015 Annual Report for the VWMMP.
EAC 15	The EAC Holder must use these resulting data to inform final Project design and to develop additional mitigation measures, as needed, as part of the Wildlife Management Plan, in consultation with Environment Canada and FLNR.	Complete	In Compliance	Resulting data were used to update the models and the ranking of habitats. BC Hydro is using this information, along with additional baseline data collected since that as part of vegetation and wildlife monitoring plans, to assess habitat losses and plan for mitigation efforts.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 15	· Measures to avoid, if feasible, constructing in sensitive wildlife habitats. If avoiding sensitive wildlife habitats is not feasible, condition 16 applies.	Ongoing	In Compliance	BC Hydro is avoiding, where feasible, construction in sensitive wildlife habitats. For example, BC Hydro relocated work zones within the Portage Mountain quarry to avoid known bat hibernacula. BC Hydro also implemented buffer zones and blasting timing windows to avoid disturbing hibernating bats adjacent to the quarry. In addition, it is regular practice for contractors to survey for and mitigate the risks of impacts to active migratory bird nests, raptor nests, active mammal dens, and amphibian breeding ponds. Required general measures for mitigating impacts to sensitive wildlife habitat features are described in Section 4.17 of the CEMP.
EAC 15	· If sensitive habitats, such as wetlands, are located immediately adjacent to any work site, buffer zones must be established by a QEP to avoid direct disturbance to these sites.	Ongoing	In Compliance	Section 4.18 of the CEMP requires contractors to identify Restricted Activity and Work Avoidance Zones and the implementation of buffer zones. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 15	· Protocol for the application of construction methods, equipment, material and timing of activities to mitigate adverse effects to wildlife and wildlife habitat.	Ongoing	In Compliance	Section 4.17 of the CEMP describes how requirements for EPPs in minimizing disturbance to wildlife during the construction phase, including conducting works within the least risk timing windows. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 15	· Protocol to ensure that lighting is focused on work sites and away from surrounding areas to manage light pollution and disturbance to wildlife.	Ongoing	In Compliance	The requirement to focus lighting into work areas is included in Section 4.17 of the CEMP. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 15	If lighting cannot be directed away from surrounding areas, the EAC Holder must ensure additional mitigation measures are implemented to reduce light pollution, including light shielding.	Ongoing	In Compliance	The requirement to focus lighting into work areas is included in Section 4.17 of the CEMP. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 15	· A mandatory environmental training program for all workers so that they are informed that hunting in the vicinity of any work site/Project housing site is strictly prohibited for all workers.	Complete	In Compliance	The requirement for all workers to receive environmental training is included in Section 3.0 of the CEMP. The CEMP clarifies some of the activities that are prohibited and the training that is required: "Project workers shall be prohibited from hunting while on construction sites, Project built roads or worker housing sites, Cleaning game at construction sites Project built roads or worker housing sites. All workers are required to attend both a BC Hydro orientation and a contractor specific orientation(s) prior to starting work on-site. A component of these training sessions is environmental training for workers. Completion of these sessions required prior to the issuance of site access cards."
EAC 15	The EAC Holder must ensure that all workers are familiar with the Wildlife Management Plan.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation EPPs.
EAC 15	The EAC Holder must submit this draft Wildlife Management Plan to Environment Canada, FLNR, MOE and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The Wildlife Management Plan is described in Section 4.17 of the CEMP and Section 8.6.2 of the VWMMP. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014. The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively.
EAC 15	The EAC Holder must file the final Wildlife Management Plan with EAO, Environment Canada, FLN, MOE and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015.The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to EAO, FLNR, MOE, Indigenous Nations, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope in accordance with requirements. The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015.
EAC 15	The EAC Holder must develop, implement and adhere to the final Wildlife Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 16	If loss of sensitive wildlife habitat or important wildlife areas cannot be avoided through Project design or otherwise mitigated, the EAC Holder must implement the following measures, which must be described in the Vegetation and Wildlife Mitigation and Monitoring Plan.	Ongoing	In Compliance	All required measures of EAC condition 16 are identified in the VWMMP. The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015.
EAC 16	The Vegetation and Wildlife Mitigation and Monitoring Plan must include the following compensation measures: · Compensation options for wetlands must include fish-free areas to manage the effects of fish predation on invertebrate and amphibian eggs and larvae and young birds.	Ongoing	In Compliance	Section 8.7.2 of the VWMMP sets out the specifications for the new wetland area planned for the dam site (Area A), which is to include fish-free areas. Additional compensation options for wetlands, still in development, will also include fish-free areas. In 2019, BC Hydro and Ducks Unlimited constructed about 50 ha of fish-free wetland area at Golata Canyon Ranch. In 2021, BC Hydro worked with Ducks Unlimited Canada to identify further compensation opportunities on fee simple and Crown land to contribute towards fulfilling the plan requirements while also facilitating the current use of lands and resources by Indigenous Nations.
EAC 16	· Mitigation for the loss of snake hibernacula, artificial dens must be included during habitat compensation.	Ongoing	In Compliance	BC Hydro has engaged a contractor to develop and implement construction and monitoring of artificial snake hibernacula. The mitigation and monitoring plan for snakes has been reviewed by the VWTC and was deemed complete in 2018. Six gartersnake hibernacula were installed by 19 July 2020, and one additional snake den is planned to be constructed in association with the Cache Creek Bridge, which is planned for construction in 2023. Monitoring of the constructed snake dens was conducted in 2021.
EAC 16	· Management of EAC Holder-owned lands adjacent to the Peace River suitable as breeding habitat for Northern Harrier and Short-eared Owl.	Ongoing	In Compliance	BC Hydro continues to manage three BC Hydro owned properties identified for retention and wildlife management. All three properties provide suitable habitat for non-wetland birds, including the northern harrier and short-eared owl. Surveys in 2016 documented short-eared owl on one property and northern harrier on all three properties.
EAC 16	· Establishment of nest boxes for cavity-nesting waterfowl developed as part of wetland mitigation and compensation plan, and established within riparian vegetation zones established along the reservoir on BC Hydro-owned properties.	Ongoing	In Compliance	The establishment of nest boxes for cavity-nesting waterfowl is addressed in Section 7.3.6 of the VWMMP (Wetland compensation). An expanded nest box program to mitigate for the loss of nesting sites for cavity nesting bird species has been developed based on discussions with the VWTC. Implementation began in 2017 after review by the VWTC. By the end of 2021, 243 nest boxes were in place.
EAC 16	· A design for bat roosting habitat in HWY 29 bridges to BC Ministry of Transportation and Infrastructure (MOTI) for consideration into new bridge designs located within the Peace River valley.	Complete	In Compliance	BC Hydro received notification on 25 October 2018 from the Regional Manager of Environmental Services, MOTI, that MOTI does not support the placement of bat roosting boxes on bridges. Therefore, the bat boxes are no longer planned to be integrated into the designs of any new bridges, including the planned Farrell Creek, Halfway River, Cache Creek and Lynx Creek bridges.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 16	· Following rock extraction at Portage Mountain, creation of hibernating and roosting sites for bats.	Ongoing	In Compliance	The Portage Mountain Quarry development plan has been altered to avoid impacting bat hibernacula. Section 4.2 of the CEMP states that blasting will be prohibited within 300 m of bat hibernacula from September 15 to May 15. A monitoring plan has also been developed through the VWTC to detect any changes to bat use of the hibernacula at Portage Mountain due to quarrying activity, if any. Road construction and production blasts occurred in summer of 2019, outside of the restricted activity period that was established to mitigate impacts to bat use of the hibernacula (i.e., September 15 to May 15). Noise monitoring conducted at the site determined that noise and vibration caused by blasting did not exceed thresholds at hibernacula locations, as defined in Best Management Practices for Bats in BC (2016).
EAC 16	· Creation of natural or artificial piles of coarse woody debris dispersed throughout the disturbed landscape to maintain foraging areas and cold-weather rest sites, and arboreal resting sites, for the fisher population south of the Peace River.	Ongoing	In Compliance	Twenty-five (25) coarse woody debris (CWD) piles for fisher have been created within the dam site area and 63 have been constructed along the transmission line. BC Hydro has installed signs that advise people to remain distant from the piles. Additional CWD piles for fisher are also being planned near the reservoir clearing boundaries on the south side of the Peace River.
EAC 16	The EAC Holder must provide this draft Vegetation and Wildlife Mitigation and Monitoring Plan to Environment Canada, FLNR, MOE, and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively.
EAC 16	The EAC Holder must file the final Vegetation and Wildlife Mitigation and Monitoring Plan with EAO, Environment Canada, FLNR MOE, and Aboriginal Groups, a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The final VWMMP was submitted to the same recipients on June 5, 2015. Section 2.0 of the VWMMP provides a concordance table which shows how each of the requirements of Condition 16 is addressed in the Plan, including references to the CEMP as appropriate.
EAC 16	The EAC Holder must develop, implement and adhere to the final Vegetation and Wildlife Mitigation and Monitoring Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2015 Annual Report for the VWMMP describes implementation of the plan, with subsequent annual reports providing updates.
EAC 17	As part of the Vegetation Clearing and Debris Management Plan, if the EAC Holder must conduct clearing activities during these specified critical time periods: · Songbirds: May 1 through July 31; · Trumpeter swan, raptors and owls: April 1 through July 31; and · Sharp-tailed grouse: mid-April and mid-July (lek to nesting to hatching).	Ongoing	In Compliance	Section 3.5 of the VCDMP and Section 4.17 of the CEMP describe mitigation for addressing the requirements outlined in EAC Condition 17. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify appropriate implementation of the EPP. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 17	The EAC Holder must first develop and implement a nest and lek search protocol, in consultation with the FLNR and MOE.	Ongoing	In Compliance	The nest search protocol was revised in 2016, was included as Appendix 2 of the 2016 Annual Report for the VWMMP, and submitted to regulatory agencies and Indigenous Nations on March 31, 2017. The Sharp-tailed Grouse lek mitigation program was developed through the VWTC. Mitigation specifically for Sharp-tailed Grouse was integrated into Section 4.17 of the CEMP Revision 3 in 2016. That mitigation was subsequently revised based on discussions with the VWTC and provided in Section 4.17 of CEMP Revision 5 issued 15 February 2019.
EAC 17	The EAC Holder must provide FLNR and MOE with all known nest and lek locations.	Ongoing	In Compliance	BC Hydro provides FLNR and MOE with all known nest and lek locations annually. All 2021 data on known nest locations was provided to FLNR and MOE on 7 January 2022.
EAC 17	The EAC Holder must flag these sites and require employees and contractors to avoid these sites.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify appropriate implementation of the EPP. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 17	The nest and lek search protocol must include specifications for buffers around active nest sites and flagging, as required by FLNR.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify appropriate implementation of the EPP. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 18	The EAC Holder must avoid human-wildlife conflicts during the construction phase by implementing measures detailed in a Human-Wildlife Conflict Management Plan.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	The Human-Wildlife Conflict Management Plan must include at least the following: · Prior to the commencement of work, the EAC Holder must ensure that all crews have participated in Bear Aware or a similar training program.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Prohibit feeding of wildlife at work sites.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 18	· Ensure that all construction areas and worker housing sites are kept clean and free of discarded anthropogenic food sources, with garbage securely stored in verified bear-proof containers or removed from site.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Prohibit work crews from hunting while on any work sites, Project built roads and worker housing sites.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Prohibit work crews from cleaning game at construction sites. Project built roads and worker housing sites.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Measures to minimize road mortality, including posted speed limits, provision of alternative transportation options including, for example, carpooling,	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Procedures for reporting dangerous human-wildlife incidents and incidents of wildlife mortality.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Prompt notification to the appropriate authorities of incidences of roadkill, or, in the event a wildlife act permit to manage road kill is obtained by the EAC Holder, the EAC Holder must implement management measures as per permit requirements.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	· Review of effectiveness of measures to manage dangerous human-wildlife interactions.	Ongoing	In Compliance	Section 4.17 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 18	The EAC Holder must provide the draft Human-Wildlife Conflict Management Plan to the MOE Conservation Officer Service for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The Human Wildlife Conflict Management Plan is described in Section 4.17 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014
EAC 18	The EAC Holder must file the final Human-Wildlife Conflict Management Plan with EAO and the MOE Conservation Officer Service a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Subsequent revisions to the CEMP have not resulted in changes to the Human-Wildlife Conflict Management Plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 18	The EAC Holder must develop, implement and adhere to the final Human-Wildlife Conflict Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of the EPP.
EAC 19	The EAC Holder must use reasonable efforts to avoid and reduce injury and mortality to amphibians and snakes on roads adjacent to wetlands and other areas where amphibians or snakes are known to migrate across roads including locations with structures designed for wildlife passage	Ongoing	In Compliance	BC Hydro is using reasonable efforts to avoid and reduce injury and mortality to amphibians and snakes. Section 4.17 of Rev 4 of the CEMP outlines mitigation for snakes and amphibians. For amphibian salvage and relocation, BC Hydro has obtained Wildlife Act permit FJ16-226024, which is valid until 31 December 2023. BC Hydro developed the Site C Western Toad Management Procedure, which describes a protocol for conducting amphibian assessments within and adjacent to work sites, halting work when necessary, and translocating migrating toads along their way and past dangerous work areas. The Site C Western Toad Management Procedure was developed through and deemed complete by the VWTC in 2017, and integrated into the CEMP Revision 5 as Appendix L. This Procedure has been passed to all relevant contractors since its completion 21 July 2017, for inclusion in appropriate EPPs. Amphibian salvage and translocation activities in 2021 will be sent to MOE and FLNRORD in accordance with permit requirements.
EAC 19	The EAC Holder must consult with Environment Canada, FLNR and MOE with regard to the size and number of the proposed structures prior to construction.	Ongoing	In Compliance	A 15 m long 1,000 mm diameter culvert has been installed along the access road to Portage Mountain, following guidance described in Best Management Practices for Amphibians and Reptiles in Urban and Rural Environments in British Columbia (BC MWLAP 2004).
EAC 20	The EAC Holder must use reasonable efforts to minimize disturbance to wildlife during the construction phase by scheduling construction activities in accordance with the Construction Environmental Management Plan.	Ongoing	In Compliance	Section 4.17 of the CEMP describes the EPP requirements for minimizing disturbance to wildlife during the construction phase, including conducting works within the least risk timing windows. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 21	The EAC Holder must ensure that measures implemented to manage harmful Project effects on wildlife resources are effective by implementing monitoring measures detailed in a Vegetation and Wildlife Mitigation and Monitoring Plan.	Ongoing	In Compliance	The final VWMMP was developed and submitted to regulatory agencies, governments and Indigenous Nations on June 5, 2015.
EAC 21	The Vegetation and Wildlife Mitigation and Monitoring Plan must be developed by a QEP.	Complete	In Compliance	Section 2.3 of the VWMMP lists the QEPs who prepared the plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 21	The Vegetation and Wildlife Mitigation and Monitoring Plan must include at least the following: · Monitor Bald Eagle nesting populations adjacent to the reservoir, including their use of artificial nest structures.	Ongoing	In Compliance	Monitoring of Bald Eagle nesting productivity occurred three times over May and June in 2021. The annual bald eagle nest monitoring report will be provided in the 2021 Annual Report of the VWMMP, which will be submitted by March 31, 2021.
EAC 21	· Monitor waterfowl and shorebird populations and their use of natural wetlands, created wetlands, and artificial wetland features.	Ongoing	In Compliance	Spring and fall waterfowl and shorebird (i.e., waterbird) surveys were conducted along the Peace River and the transmission line ROW in 2021. The annual waterbird monitoring report will be provided in the 2021 Annual Report of the VWMMP, which will be submitted by March 31, 2021.
EAC 21	· Monitor amphibian use of migration crossing structures installed along Project roads.	Ongoing	In Compliance	A 15 m long 1,000 mm diameter culvert has been installed along the access road to Portage Mountain, following guidance described in Best Management Practices for Amphibians and Reptiles in Urban and Rural Environments in British Columbia (BC MWLAP 2004). Monitoring of amphibian use of the crossing structure was conducted from April 1 through September 30, following the requirements of the Site C Western Toad Management Procedure. That monitoring involved surveys for western toad activity that occur weekly during the caution period of April 1 to May 31 and August 16 to September 30, and daily surveys from June 1 to August 15. No western toad use of the crossing structure has yet been documented, but western toad activity in general has been low.
EAC 21	· Survey songbird and ground-nesting raptor populations during construction and operations.	Ongoing	In Compliance	Songbirds and ground-nesting raptors were surveyed in separate monitoring programs in 2021. The results of those surveys will be included in the 20201Annual Report of the VWMMP, which will be submitted by March 31, 2022.
EAC 21	· Survey the distribution of western toad and garter snake populations downstream of the Site C dam to the Pine River.	Ongoing	In Compliance	BC Hydro developed the Downstream Western Toad and Garter snake Monitoring Program, which was deemed complete by the VWTC in 2018. Implementation of the program began in 2018. The results of this program for 2020 were included in the 2020 Annual Report of the VWMMP. The next surveys for this program are scheduled to occur in 2025.
EAC 21	· Require annual reporting during the construction phase and during the first 10 years of operations to EAO, beginning 180 days following commencement of construction.	Ongoing	In Compliance	Results of monitoring surveys and other programs are described in the 2021 Annual Report for the VWMMP, which will be submitted to regulatory agencies and Indigenous Nations by March 31, 2022.
EAC 21	The EAC Holder must provide this draft Vegetation and Wildlife Mitigation and Monitoring Plan to FLNR, MOE, Environment Canada and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft and first revision of the VWMMP was submitted to regulatory agencies and Indigenous Nations on October 17, 2014, and April 7, 2015, respectively. The final VWMMP was submitted to the same recipients on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 21	The EAC Holder must file the final Vegetation and Wildlife Mitigation and Monitoring Plan must with EAO, FLNR, MOE, Environment Canada and Aboriginal Groups a minimum 30 days prior to the commencement of construction.	Complete	In Compliance	The final VWMMP was submitted to regulatory agencies and Indigenous Nations on June 5, 2015.
EAC 21	The EAC Holder must develop, implement and adhere to the final Vegetation and Wildlife Mitigation and Monitoring Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The VWMMP was submitted in June 2015, and is being implemented and adhered to. Implementation of the VWMMP in 2021 will be summarized in the 2021 Annual Report for the VWMMP, which will be submitted by March 31, 2022.
EAC 22	The EAC Holder must implement measures that reduce the potential for new or increased public access via roads constructed for the Project, by using pre-existing routes where feasible, decommissioning temporary access roads as soon as practicable after use,	Ongoing	In Compliance	Appendix A of the VCDMP describes how the requirements of Condition 22 are being met during construction. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Environmental audits to evaluate compliance with the CEMP and EAC and Federal Decision Statement Project approval conditions are also conducted by the Independent Environmental Monitor (IEM) and the BC Environmental Assessment Office (EAO).
EAC 22	And proposing to FLNR Project access roads that should be closed to the public in areas known to be important to Aboriginal groups.	Ongoing	In Compliance	Specific access routes will be identified in relevant permit applications, such as the Forest Act Occupant Licence to Cut permits. Consultation on these permits is undertaken with the groups identified in the condition, which allows for discussion about the selection of new or pre-existing access routes, and decommissioning requirements.
EAC 22	The EAC Holder must develop mitigation measures in collaboration with FLNR and the Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band.	Ongoing	In Compliance	Specific access routes will be identified in relevant permit applications, such as the Forest Act Occupant Licence to Cut permits. Consultation on these permits is undertaken with the groups identified in the condition, which allows for discussion about the selection of new or pre-existing access routes, and decommissioning requirements. The draft and final VCDMP were submitted to regulatory agencies, governments, and Indigenous Nations for comment on October 17, 2014 and June 5, 2015, respectively. The VCDMP was updated in July 2019 and provided to regulatory agencies and Indigenous Nations as noted above.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 23	The EAC Holder must maintain current knowledge of Project effects on the status of listed species by tracking updates for species identified by the Province, the Committee on the Status of Endangered Wildlife in Canada, and the Species at Risk Act.	Ongoing	In Compliance	The SARA status listings for wildlife species likely to occur within the Site C Project area did not change in 2021. No finalized recovery strategies for federally listed species likely to occur within the Site C Project Area were released in 2021, although a proposed recovery strategy for bank swallow (Riparia riparia) was released in 2021. The Committee on the Status of Endangered Wildlife in Canada (COSEWIC) reclassified short eared owl as Threatened in 2021, and downgraded barn swallow and Canada warbler (Cardellina canadensis) to Special Concern. In 2021, the BC Conservation Data Centre (CDC) listing did not change for any wildlife species with potential to occur in the Site C Project area. In 2021 there were no changes to the conservation status of plants with potential to occur in the Site C Project area.
EAC 23	Should the status of a listed species change for the worse during the course of the construction of the Project due to Project activities, the EAC Holder, must work with Environment Canada FLNR and MOE to determine if any changes to the associated management plans or monitoring programs are required to mitigate effects of the Project on affected listed species.	Ongoing	In Compliance	Due to the listing of bank swallow as Threatened on Schedule 1 of SARA in November 2017, BC Hydro is developing a bank swallow mitigation and monitoring plan collaboratively through the VWTC. The plan remains in development through ongoing discussions with the VWTC, including CWS.
EAC 24	The EAC Holder must identify suitable lands for ungulate winter range by the end of the first year of construction, on BC Hydro- owned lands, or Crown lands, in the vicinity of the Project in consultation with FLNR.	Complete	In Compliance	BC Hydro fulfilled this condition in 2015. Section 8.11 of the VWMMP addresses this condition. Suitable winter range on BC Hydro owned land was identified in Figures 9, 10 and 11 of the VWMMP, and in Forest Act Occupant Licence to Cut permit applications overlapping with provincially designated winter range.
EAC 24	If FLNR determines that identified winter range is required, the EAC Holder must identify and maintain suitable BC Hydro-owned lands for ungulate winter range to the satisfaction of FLNR and for the length of time determined by FLNR.	Complete	In Compliance	BC Hydro fulfilled this condition in 2015. Section 8.11 of the VWMMP addresses this condition. Suitable winter range on BC Hydro owned land was identified in Figures 9, 10 and 11 of the VWMMP, and in Forest Act Occupant Licence to Cut permit applications overlapping with provincially designated winter range.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
	CURRENT USE OF LANDS AND RESOURCES FOR TRADITIONAL PURPOSES			
EAC 25	The EAC Holder must undertake a ground truthing program of traditional plants currently used by Aboriginal Groups in collaboration with Aboriginal Groups prior to construction.	Ongoing	In Compliance	BC Hydro initiated ground truthing programs with the purpose of engaging with Indigenous land users, including registered trapline holders, to verify and accurately locate Indigenous land use information, and to identify concerns related to specific features, or sites that may be affected by the Project. BC Hydro has provided funding to Indigenous Nations for ground truthing through Consultation and Capacity Funding Agreements. During this reporting period, and following covid safety measures, ground truthing did occur. An invitation was extended to all Nations to participate in ground truthing Area E and Ice Bridge Road. Several Indigenous Nations (3) attend ground truthing of this area in September and October of 2021. Additionally, BC Hydro has been operating a cultural monitoring program that also provides opportunities for local First Nation representatives to identify areas of cultural significance in order to avoid, mitigate or otherwise protect them from construction and associated project activities. This program has been ongoing throughout the reporting period. To update and inform Indigenous communities of construction progress and upcoming milestones, BC Hydro continued to offer opportunities to Nations to conduct field work and other engagement activities when it was safe to do so and only following authorised covid safety plans. Please note that several Nations were uncomfortable participating in in-person activities. When in-person activities were not feasible, BC Hydro shared virtual drone construction update videos through the Site Environmental Forum and Quarterly Project Update meetings. BC Hydro remains engaged with Saulteau registered trapline holders whose tenure areas are affected by project construction and operations. BC Hydro contacts registered trapline holders in advance of any ground disturbance work planned to take place within their respective trapline areas such as the annual Notification of Intent to Treat for invasive species. During this reporting period BC Hydro and our contractors worked with a Saulteau First Nation trapline holder and conducted three days of field work.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
				BC Hydro also shares the quarterly Notices of Construction Activities with registered trapline holders and advises it is available to meet to discuss any questions regarding the activities in the notice. BC Hydro continues to consult with Indigenous Nations regarding construction plans and sent invitation letters in April and September 2017, January, June and August 2018, March, June and August 2019, May 2020, and August 2021 highlighting areas where construction is planned in order that Indigenous Nations could ground truth areas of traditional significance prior to construction. Ground-truthing information received continues to be used to support and inform mitigation measures and relevant mitigation plans. BC Hydro is coordinating with interested nearby/proximal Indigenous Nations to coordinate preclearing harvesting activities in construction areas prior to ground disturbance or clearing activities.
EAC 25	Where specific plants are known to be harvested by Aboriginal Groups, the EAC Holder must make reasonable efforts to consult interested Aboriginal Groups using the results of the ground truthing to inform the development and implementation of mitigation and compensation measures to accommodate adverse effects of the Project on plants traditionally used by Aboriginal Groups.	Ongoing	In Compliance	Based on the results of ground truthing to date, a number of plant species with cultural, food and medicinal value have been identified and are listed in the Aboriginal Plant Use Mitigation Plan (APUMP) annual reports. The 2020-2021 APUMP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous APUMP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. During this reporting period, BC Hydro and interested Indigenous Nations have established a working group to engage, discuss, and identify plant species of traditional Indigenous value and these species will be incorporated into reclamation plans, as appropriate. As draft reclamation plans are developed to address the adverse effects of the project on plants traditionally used by Indigenous Nations they will be provided to Indigenous Nations, and members of the reclamation working group, for review and comment. Through this process, as well as new information provided through future ground truthing, plants of high traditional Indigenous value will continue to be identified and included in the mix of species considered for revegetation conducted under the VWMMP and the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP).

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 26	The EAC Holder must develop an Aboriginal Plant Use Mitigation Plan to describe how the effects of the Project on plants currently harvested by Aboriginal Groups will be mitigated, including through compensation measures.	Ongoing	In Compliance	The Aboriginal Plant Use Mitigation Plan (June 2015) is available on the Project website. Based on the results of ground truthing to date, a number of plant species with cultural, food and medicinal value have been identified and are listed in the Aboriginal Plant Use Mitigation Plan (APUMP) annual reports. The 2020-2021 APUMP Annual Report, describing activities from April 2019 through March 2020, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous APUMP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro continues to work with Indigenous Nations to identify plant species of traditional Indigenous value through ongoing ground truthing activities. These species will be incorporated into reclamation plans, as appropriate. As draft reclamation plans are developed to address the adverse effects of the project on plants traditionally used by Indigenous Nations they will be provided to Indigenous Nations for review and comment.
EAC 26	The Aboriginal Plant Use Mitigation Plan must include at least the following: · Identify within the Project footprint including areas being reclaimed potential sites for relocation of medicinal and food plants;	Ongoing	In Compliance	The Aboriginal Plant Use Mitigation Plan (June 2015) is available on the Project website. Based on the results of ground truthing to date, a number of plant species with cultural, food and medicinal value have been identified and are listed in the Aboriginal Plant Use Mitigation Plan (APUMP) annual reports. The 2020-2021 APUMP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous APUMP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro continues to work with Indigenous Nations to identify plant species of traditional Indigenous value through ongoing ground truthing activities. These species will be incorporated into reclamation plans, as appropriate. As draft reclamation plans are developed to address the adverse effects of the project on plants traditionally used by Indigenous Nations they will be provided to Indigenous Nations for review and comment.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 26	Relocate when deemed necessary by a QEP.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. Rare plant species impacted, or potentially impacted, by project construction activities may be included in the experimental rare plant translocation program (described in section 8.2 of the VWMMP) based on the characteristics of the species, and availability of suitable locations and habitat conditions near to the construction area. For other (non-rare) species, a QEP will identify those species suitable for use in reclamation plans, based on the biological and site conditions of identified reclamation areas as well as the requirements of the target plant species. Currently, “Rat root” (Acorus americanus) is the only rare plant species of traditional Indigenous value identified through ground truthing (currently Red-listed in BC by the BC Conservation Data Centre).
EAC 26	· Identify within the Project footprint including areas being reclaimed opportunities to restore ecological communities that support species of high traditional use value for affected Aboriginal Groups	Ongoing	In Compliance	Based on the results of ground truthing to date, a number of plant species with cultural, food and medicinal value have been identified and are listed in the Aboriginal Plant Use Mitigation Plan (APUMP) annual reports. The 2020-2021 APUMP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous APUMP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro continues to work with Indigenous Nations to identify plant species of traditional Indigenous value through ongoing ground truthing activities. These species will be incorporated into reclamation plans, as appropriate. As draft reclamation plans are developed to address the adverse effects of the project on plants traditionally used by Indigenous Nations they will be provided to Indigenous Nations for review and comment. Through this process, as well as new information provided through future ground truthing, plants of high traditional Indigenous value will continue to be identified and included in the mix of species considered for re-vegetation conducted under the VWMMP and the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP).

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 26	And undertake restoration of those ecological communities where deemed necessary by a QEP.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. Plant species of traditional Indigenous value will be identified and will be incorporated into reclamation plans, as appropriate. As draft reclamation plans are developed to address the adverse effects of the project on plants traditionally used by Indigenous Nations they will be provided to Indigenous Nations for review and comment. Additionally, plants of traditional Indigenous value will continue to be identified and included in the mix of species considered for re-vegetation conducted under the VWMMP and the Soil Management, Site Restoration and Revegetation Plan (Appendix H of the CEMP).
EAC 26	· Identify opportunities and provide financial support for propagation of indigenous plant species for use in reclamation programs, such as that offered through the indigenous nursery owned by the West Moberly First Nation and Saulteau First Nation.	Ongoing	In Compliance	BC Hydro has entered into a contract with Twin Sisters Nursery (an indigenous nursery owned by West Moberly First Nations and Saulteau First Nations) for supply and delivery of live native seedling stock to support re-vegetation and reclamation activities. Seeds of local plant species of traditional Indigenous value will continue to be collected by Twin Sisters and available for use in reclamation plans as required.
EAC 26	The EAC Holder must make reasonable commercial efforts to obtain up to $1 million in commercial service contracts with indigenous nurseries for provision of plants.	Ongoing	In Compliance	BC Hydro has entered into a contract with Twin Sisters Nursery (an indigenous nursery owned by West Moberly First Nations and Saulteau First Nations) for supply and delivery of live native seedling stock to support re-vegetation and reclamation activities. Seeds of local plant species of traditional Indigenous value will continue to be collected by Twin Sisters and available for use in reclamation plans as required.
EAC 26	The EAC Holder must make reasonable efforts to develop the Aboriginal Plant Use Mitigation Plan in collaboration with FLNR and Aboriginal Groups, at least 90 days prior to Project activities that may affect traditional plants.	Complete	In Compliance	The draft Aboriginal Plant Use Mitigation Plan (APUMP) was submitted to regulatory agencies and Indigenous Nations on October 17, 2014.
EAC 26	The EAC Holder must file the final Aboriginal Plant Use Mitigation Plan with EAO, FLNR and Aboriginal Groups at least 30 days prior to Project activities that may affect traditional plants.	Complete	In Compliance	The final Aboriginal Plant Use Mitigation Plan was submitted to regulatory agencies and Indigenous Nations on June 5, 2017.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 26	The EAC Holder must develop, implement and adhere to the final Aboriginal Plant Use Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The APUMP describes the scope of the ground truthing program and how the information gained during ground truthing is used to inform mitigation measures related to plants of traditional Indigenous value. The 2020-2021 APUMP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous APUMP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro will update the plan as required based on new information. Initiatives described in the Aboriginal Plant Use Mitigation Plan will continue to be implemented through project construction.
EAC 27	In order to manage adverse effects on Aboriginal plant, fish and game harvesters during both the construction and operations phases of the Project, the EAC Holder must develop, as part of the Construction Communication Plan, a communications program (Program) for informing Aboriginal harvesters about construction activities that may affect their harvesting opportunities for plants, fish, and game, as well as access to those opportunities.	Ongoing	In Compliance	BC Hydro has developed an Aboriginal Group Communication Plan (AGCP; see Appendix D of the CEMP) which describes the measures being taken to inform Indigenous Nations about construction activities that may affect harvesting opportunities. The 20202021 AGCP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous AGCP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. The AGCP will be updated as required to reflect evolving project communications with Indigenous Nations through to the end of construction.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 27	The Program must also include information regarding how fish monitoring programs will be used to inform Aboriginal harvesters about changes in fish community composition during operations.	Ongoing	In Compliance	As described in Section 5.0 of the Aboriginal Group Communication Plan (AGCP), BC Hydro will communicate the results of the Fisheries and Aquatic Habitat Monitoring and follow-up program to Indigenous Nations. This includes the Site C Reservoir Fish Community monitoring program, which assesses the effects of river to reservoir transformation on the fish community in the Site C Reservoir and associated tributaries. Indigenous Nations will be provided with monitoring reports annually. Community-based meetings with Indigenous Nations could also be held to share these results and inform the communities on changes to fish community composition. To date, through the Site C Environmental Forum, several discussions and presentations have occurred regarding fish & aquatics monitoring, fish passage and fisheries enhancement programs. The 2020-2021 AGCP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous AGCP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022.
EAC 27	The EAC Holder must make all reasonable efforts to develop the draft Program in collaboration with FLNR and Aboriginal Groups, at least 90 days prior to Project activities that may affect Aboriginal harvesting opportunities.	Complete	In Compliance	The draft Aboriginal Group Communications Plan is described in Appendix D of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014.
EAC 27	The EAC Holder must file the final Program with EAO, FLNR and Aboriginal Groups at least 30 days prior to any activities that may affect Aboriginal harvesting opportunities.	Complete	In Compliance	The findal Aboriginal Group Communications Plan is described in Appendix D of the CEMP for the Project. The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to EAO, FLNR, MOE, Indigenous Nations, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope in accordance with requirements
EAC 27	The EAC Holder must develop, implement and adhere to the final Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The 2020-2021 AGCP Annual Report, describing activities from April 2020 through March 2021, was submitted to the EAO on March 31, 2021 and is shared with Indigenous Nations on the project website along with previous AGCP and other annual reports. Indigenous Nations are notified when reports are shared through the bi-weekly Site C Information Update. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 28	In order to mitigate the loss of use and access to structures used in Aboriginal traditional and current harvesting (e.g. cabins associated with tenured trap lines) as a result of Project reservoir flooding, the EAC Holder must make all reasonable efforts to consult with Aboriginal Groups and FLNR to identify the locations of such structures, including permanent, untenured structures.	Complete	In Compliance	BC Hydro has signed agreements with registered trapline holders where the loss of structures were identified and confirmed through ground-truthing. In addition, BC Hydro remains engaged with Saulteau registered trapline holders whose tenure areas are affected by project construction and operations. BC Hydro contacts registered trapline holders in advance of any ground disturbance work planned to take place within their respective trapline areas. BC Hydro also shares the quarterly Notices of Construction Activities with registered trapline holders and advises it is available to meet to discuss any questions regarding the activities in the notice. BC Hydro has a standing invitation to Indigenous Nations to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Indigenous Nations in the project activity zone.
EAC 28	Where the loss of such structures are identified and confirmed through ground-truthing, the EAC Holder must make reasonable efforts to consult with Aboriginal groups and FLNR to establish measures to compensate for the loss of such structures prior to the loss of the structures.	Complete	In Compliance	BC Hydro has signed agreements with registered trapline holders where the loss of structures were identified and confirmed through ground-truthing. In addition, BC Hydro remains engaged with Saulteau registered trapline holders whose tenure areas are affected by project construction and operations. BC Hydro contacts registered trapline holders in advance of any ground disturbance work planned to take place within their respective trapline areas. BC Hydro also shares the quarterly Notices of Construction Activities with registered trapline holders and advises it is available to meet to discuss any questions regarding the activities in the notice. BC Hydro has a standing invitation to Indigenous Nations to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Indigenous Nations in the project activity zone.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 28	The EAC Holder must implement a process for the identification of, and compensation for untenured structures that are culturally important to Aboriginal Groups at least 30 days prior to the commencement of construction activities.	Ongoing	In Compliance	BC Hydro has signed agreements with registered trapline holders where the loss of structures were identified and confirmed through ground-truthing. In addition, BC Hydro remains engaged with Saulteau registered trapline holders whose tenure areas are affected by project construction and operations. BC Hydro contacts registered trapline holders in advance of any ground disturbance work planned to take place within their respective trapline areas. BC Hydro also shares the quarterly Notices of Construction Activities with registered trapline holders and advises it is available to meet to discuss any questions regarding the activities in the notice. Indigenous Nations have also identified two areas containing structures within or near the project area that are used for cultural purposes (not impacted by inundation). BC Hydro is continuing to engage with the respective Indigenous Nations on their cultural interests and potential measures to avoid or mitigate impacts to these structures. BC Hydro has a standing invitation to Indigenous Nations to meet and discuss any issues or concerns regarding the project as construction proceeds, and remain committed to conducting ground truthing with any interested Indigenous Nations in the project activity zone.
	LAND AND RESOURCE USE			
	Harvest of Fish and Wildlife			
EAC 29	In order to appropriately manage effects on disruption of access to registered trapline holders and Guide Outfitters during construction, the EAC Holder must make reasonable efforts to conclude access agreements with these affected registered third parties, unless there are safety concerns involved.	Ongoing	In Compliance	To date BC Hydro has obtained a total of nine agreements from the 11 trapline holders that are impacted by construction activities. Two agreements are under development. Agreements have been reached with the 2 out of 4 guide outfitters impacted by construction activities.
EAC 29	Efforts undertaken by the EAC Holder to reach access agreements must be made to the satisfaction of EAO prior to the disruption of access to trapline holders and guide outfitters	Ongoing	In Compliance	To date BC Hydro has obtained a total of nine agreements from the 11 trapline holders that are impacted by construction activities. Two agreements are under development. Agreements have also been reached with the 2 out of 4 guide outfitters impacted by construction activities.
	Agriculture			
EAC 30	In order to avoid or manage the effects of the project on agricultural land owners and tenure holders, the EAC Holder must develop an Agricultural Mitigation and Compensation Plan.	Complete	In Compliance	BC Hydro submitted the final Agricultural Mitigation and Compensation Plan on July 27, 2017. BC Hydro submitted Rev 1 of the Agricultural Mitigation and Compensation Plan on September 25, 2017.
EAC 30	The Agricultural Mitigation and Compensation Plan must be developed by a QEP.	Complete	In Compliance	Section 2.1 and Appendix B of the final Agricultural Mitigation and Compensation Plan lists the QEPs who prepared the plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 30	As part of Agricultural Mitigation and Compensation Plan development, the EAC Holder must evaluate effects on agricultural land owners and tenure holders, and develop mitigation and compensation measures consistent with industry compensation standards, to mitigate effects or compensate for losses.	Ongoing	In Compliance	Section 2.4 of the final Agricultural Mitigation and Compensation Plan describes the process that will be undertaken to develop individual farm mitigation plans with directly affected agricultural land owners and tenure holders. Development of individual farm mitigation plans is underway as part of the property acquisition process.
EAC 30	The Agricultural Mitigation and Compensation Plan must include at least the following: · Inclusion of suitable land in the Agricultural Land Reserve in consultation with the Agriculture Land Commission.	Ongoing	In Compliance	Section 2.5 of the final Agricultural Mitigation and Compensation Plan describes the process for suitable land to be included in the Agricultural Land Reserve. This will primarily occur during the operations phase.
EAC 30	· When residual land parcels are to be sold, consolidate and/or connect residual agricultural parcels with adjacent agricultural land holdings, where practical and when owner(s) and BC Hydro agree.	Ongoing	In Compliance	Section 2.5 of the final Agricultural Mitigation and Compensation Plan describes the process for consolidation and/or connection of residual agricultural parcels. This will primarily occur during the operations phase.
EAC 30	· Funding for mitigation actions for disruptions to agricultural land owners and tenure holders, including but not limited to the provision of alternative / replacement: o Livestock movement options and compensation for associated increased costs; o Infrastructure (irrigation and drainage improvements); o Water supplies; o Relocation of quality soil in selected locations; o Farm and field access; o Highway crossings; o Utility crossings; o Livestock watering and drainage works during construction, and restore original works after construction is completed; and o Fencing.	Ongoing	In Compliance	Section 2.4 of the final Agricultural Mitigation and Compensation Plan describes the process that will be undertaken to develop individual farm mitigation plans with directly affected agricultural land owners and tenure holders. Development of individual farm mitigation plans is underway as part of the property acquisition process.
EAC 30	· Minimize access to agricultural lands by construction workers and implement measures to minimize unauthorized public access.	Ongoing	In Compliance	Section 2.3 of the final Agriculture Mitigation Compensation Plan reflects this requirement. Construction mitigation measures that address impacts on agricultural land and operations are included in applicable contracts, in the Project's Construction Environmental Management Plan, and will be included in individual farm mitigation plans, as applicable.
EAC 30	· For impacts that cannot be avoided, the plan will contain an approach for reimbursements that compensate for associated financial losses due to disruptions to agricultural land use.	Ongoing	In Compliance	Section 2.4 of the final Agricultural Mitigation and Compensation Plan describes the process that will be undertaken to develop individual farm mitigation plans with directly affected agricultural land owners and tenure holders. Development of individual farm mitigation plans is underway as part of the property acquisition process.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 30	In addition to the above bulleted measures in this condition, establishment of an agricultural compensation fund of $20 million for use in the Peace Region or other areas of the province as necessary to compensate for lost agricultural lands and activities, and an approach for establishing the governance and allocation of funds.	Complete	In Compliance	Section 2.6 of the final Agricultural Mitigation and Compensation Plan describes the fund along with Appendix C, D, E, F and G. Establishment of the Fund Board and procurement of the Fund Administrator began on February 23, 2018. This was completed and the $20 million was transferred to the Fund Administrator for management on December 14, 2018 In 2021, 28 Peace Region agricultural projects received approximately $700,000 in funding through the BC Hydro Peace Agricultural Compensation Fund and as of December 31, 2021, nearly $1,300,000 had been distributed to 53 projects. The Board has established a grant budget of $750,000 for 2022.
EAC 30	The EAC Holder must work with the Ministry of Agriculture to establish a governance structure for the agriculture compensation fund that will ensure funds will be used to support enhancement projects that improve agricultural land, productivity or systems.	Complete	In Compliance	Section 1.7 and Appendix B of the final Agricultural Mitigation and Compensation Plan describes the joint Consultation Steering Committee established including staff from Ministry of Agriculture, Ministry of Energy and Mines, and BC Hydro to develop the Agricultural Mitigation and Compensation Plan.
EAC 30	The framework for the Agricultural Mitigation and Compensation Plan must be developed in consultation with the affected agricultural land owners and tenure holders, and the Ministry of Agriculture, and provided to Peace River Regional District and the District of Hudson's Hope for review within 1 year after the commencement of construction.	Complete	In Compliance	The Agricultural Mitigation and Compensation Plan Framework was submitted on July 27, 2016. Stakeholder consultation regarding the Framework took place from November 23 to January 29, 2016 in coordination with Ministry of Agriculture and Ministry of Energy and Mines. One hundred and fourteen (114) participant interactions occurred during the consultation period, including 81 attendees at regional meetings in December and January in Hudson's Hope, Fort St. John, Dawson Creek, and Chetwynd, 30 online feedback forms, and three written submissions. The Consultation Summary Report was posted publicly on March 7, 2016. A meeting with Regional representatives on the Agricultural compensation fund occurred on March 8, 2016.
EAC 30	The EAC Holder must provide this draft Agricultural Mitigation and Compensation Plan to the affected agricultural land owners and tenure holders, Peace River Regional District, District of Hudson's Hope, Ministry of Agriculture and FLNR for review within 18 months after the commencement of construction.	Complete	In Compliance	The final Agriculture Mitigation and Compensation Plan was submitted on July 27, 2017. The draft and final Agricultural Mitigation and Compensation Plan and Framework for the plan were both developed and submitted in accordance with the condition.
EAC 30	The EAC Holder must file the final Agricultural Mitigation and Compensation Plan with EAO, Peace River Regional District, District of Hudson's Hope the Ministry of Agriculture and FLNR within 2 years after the commencement of construction.	Complete	In Compliance	BC Hydro submitted the final Agricultural Mitigation and Compensation Plan on July 27, 2017. BC Hydro submitted Rev 1 of the Agricultural Mitigation and Compensation Plan on September 25, 2017.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 30	The EAC Holder must develop, jointly with agricultural land owners and tenure holders, individual farm mitigation plans throughout the construction phase for all farms directly affected by the Project.	Ongoing	In Compliance	Section 2.4 of the final Agricultural Mitigation and Compensation Plan describes the process that will be undertaken to develop individual farm mitigation plans with directly affected agricultural land owners and tenure holders. Development of individual farm mitigation plans is underway as part of the property acquisition process.
EAC 30	The EAC Holder must develop, implement and adhere to the final Agricultural Mitigation and Compensation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The final Agriculture Mitigation and Compensation Plan was submitted on July 27, 2017. BC Hydro submitted Rev 1 of the Agricultural Mitigation and Compensation Plan on September 25, 2017. The draft and final Agricultural Mitigation and Compensation Plan and Framework for the plan were both developed and submitted in accordance with the condition.
EAC 31	In addition to and separate from the compensation funding and mitigation funding the EAC Holder must fund and develop an Agriculture Monitoring and Follow-up Program for a 10 year period which includes the five years prior to reservoir filling and the first five years of operation.	Complete	In Compliance	The draft and final Agricultural Monitoring and Follow-up Programs were submitted to regulatory agencies and governments on October 23, 2015 and December 22, 2015, respectively. Section 3.0 of the Agricultural Monitoring and Follow-up Program contains a concordance table which shows how each of the requirements of Condition 31 is addressed in the Program. A summary update is also provided below.
EAC 31	The Agriculture Monitoring and Follow-up Program must include at least the following: · Monitoring for Project-induced changes in wildlife habitat utilization, and evaluation of associated crop or feed storage damage for, agricultural operations within 5 km of the reservoir, to assess if there is an increase in wildlife-related crop depredation due to Project-related habitat losses. Monitoring must include pre- and post- reservoir filling field surveys, wildlife monitoring, farm operator interviews, and analysis of relevant records related to wildlife-related crop depredation.	Ongoing	In Compliance	Appendix A of the final Agriculture Monitoring and Follow-up Program describes the wildlife habitat utilization monitoring program. BC Hydro completed procurement of a qualified professional to carry out the program in early 2019 and monitoring began in 2019 five years prior to reservoir fillingand has been on-going since.
EAC 31	· Monitoring for Project-induced changes to humidity within 3 km of the reservoir, and evaluate associated effects on crop drying within this area. Monitoring must include collection and analysis of climate data, calculation of crop drying indices, and farm operator interviews.	Ongoing	In Compliance	Appendix B of the final Agriculture Monitoring and Follow-up Program describes the monitoring of potential effects on crop drying program. Agriculture monitoring began in 2019, five years prior to reservoir filling. Baseline climatic data collection has been on-going since the environmental assessment.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 31	· Monitoring for Project-induced changes to groundwater elevations within 2 km of the reservoir (the area potentially influenced by groundwater elevation changes), and evaluate associated effects on crop productivity. Monitoring must include field surveys and farm operator interviews.	Ongoing	In Compliance	Appendix C of the final Agriculture Monitoring and Follow-up Program describes the monitoring of potential groundwater effects program. Agriculture monitoring began in 2019, five years prior to reservoir filling and has been on-going since.
EAC 31	· Monitoring for climatic factors to estimate moisture deficits and to estimate irrigation water requirements in the vicinity of the reservoir to provide information for potential future irrigation projects. Data collection will be undertaken before reservoir filling, and in the 5 years after reservoir filling, and data will be reviewed as required for proposed irrigation projects.	Ongoing	In Compliance	Appendix D of the final Agriculture Monitoring and Follow-up Program describes the monitoring to estimate irrigation requirements. Baseline climatic data collection has been on-going since the environmental assessment.
EAC 31	The Agriculture Monitoring and Follow-up Program reports must be provided annually during the monitoring and follow-up period to affected agricultural land owners and tenure holders, and Ministry of Agriculture. The results of the Agriculture Monitoring and Follow-up Program must inform the Farm Mitigation Plans.	Ongoing	In Compliance	BC Hydro provided the sixth annual report on the implementation of the Agriculture monitoring and Follow-up Program in July 2021. The seventh annual report will be provided in July 2022.
EAC 31	Reporting must begin 180 days after the commencement of the monitoring and follow-up program that is to begin 180 days after commencement of construction.	Ongoing	In Compliance	BC Hydro provided the sixth annual report on the implementation of the Agriculture monitoring and Follow-up Program in July 2021. The seventh annual report will be provided in July 2022.
EAC 31	The EAC Holder must provide this draft Agriculture Monitoring and Follow-up Program to the Ministry of Agriculture, Peace River Regional District and the District of Hudson's Hope for review within 90 days after the commencement of construction.	Complete	In Compliance	The draft Agricultural Monitoring and Follow-up Program was submitted to regulatory agencies and governments on October 23, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 31	The EAC Holder must file the final Agriculture Monitoring and Follow-up Program with EAO, Ministry of Agriculture, Peace River Regional District and the District of Hudson's Hope within 150 days of commencement of construction.	Complete	In Compliance	The final Agricultural Monitoring and Follow-up Program was submitted to regulatory agencies and governments on December 22, 2015.
EAC 31	The EAC Holder must develop, implement and adhere to the final Agriculture Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro provided the sixth annual report on the implementation of the Agriculture monitoring and Follow-up Program in July 2021. The seventh annual report will be provided in July 2022.
	Other Resource Industries			
EAC 32	The EAC Holder must develop an Oil, Gas and Energy Monitoring and Follow-up Program.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The Oil, Gas and Energy Monitoring and Follow-up Program must, at a minimum, monitor baseline conditions and effects of increased sedimentation on Spectra intakes, during construction, and effects of increased water temperature and sedimentation during operations, on Spectra cooling operations for a period of 10 years after the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	Monitoring reports must be provided to Spectra Energy beginning 180 days following commencement of operations, and annually thereafter.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must provide this draft Oil, Gas and Energy Monitoring and Follow-up Program to Spectra Energy for review within 90 days after the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must file the final Oil, Gas and Energy Monitoring and Follow-up Program with EAO and Spectra Energy within 150 days after the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 32	The EAC Holder must develop, implement and adhere to the final Oil, Gas and Energy Monitoring and Follow-up Program, and any amendments, to the satisfaction of EAO.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 33	The EAC Holder must negotiate a Memorandum of Understanding (MOU) with the MOTI prior to material extraction at MOTI quarries or pits to compensate for material used by the Project and to maintain availability of regional aggregate resources for MOTI operational needs.	Complete	In Compliance	BC Hydro has a signed MOU with MOTI, dated November 12, 2013.
EAC 33	The MOU must include: · Aggregate source strategy to compensate for inundated Ministry aggregate sources, and	Ongoing	In Compliance	BC Hydro continues to work with MoTI to satisfy these commitments in the MOU. Aggregate sources have been set aside for MoTI during Hwy 29 construction in Peaceview Pit. BC Hydro continues to pursue other sources.
EAC 33	Strategy for the EAC Holder to stockpile surplus rock material at the West Pine, Wuthrich, and Portage Mountain quarries.	Ongoing	In Compliance	BC Hydro continues to work with MoTI to satisfy the commitments in the MOU. Material designs have been developed to provide the most efficient use of the Portage Mountain Quarry product which will minimize the disturbance of the quarry material. This will ensure a greater quantity of usable material remains in the quarry for future use.
EAC 33	The EAC Holder commitments as outlined in the MOU must be implemented and adhered to, to the satisfaction of the MOTI.	Ongoing	In Compliance	BC Hydro continues to work with MoTI to satisfy these commitments in the MOU. Current commitments include: coordination of Hwy 29 management, procurement construction and decommissioning. BCH continues to work with MoTI on pursuing material sources for future MoTI requirements from inundated sources.
EAC 34	The EAC Holder must discuss any overlap with the Project activity zone and preliminary reservoir impact lines with affected mineral and aggregate tenure holders.	Complete	In Compliance	No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines. The dam site, reservoir and transmission line are covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson's Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves. Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made. Other than reserves held by the MOTI, BC Hydro is not aware of any tenures issued to third parties for the purposes of aggregate production on Crown land that overlap with the Project Activity Zone and preliminary impact lines.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 34	Where conflicts exist, the EAC Holder must make reasonable efforts to enter into agreements with mineral and aggregate tenure holders, to the satisfaction of EAO, to resolve conflicts with mineral and aggregate tenure holders.	Complete	In Compliance	No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines. The dam site, reservoir and transmission line are covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson's Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves. Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made. Other than reserves held by the MOTI, BC Hydro is not aware of any tenures issued to 3rd parties for the purposes of aggregate production on Crown land that overlap with the Project Activity Zone and preliminary impact lines.
EAC 34	Efforts made by the EAC Holder to enter into such agreements must be documented.	Complete	In Compliance	No mineral tenures appear to overlap with the Project Activity Zone and preliminary impact lines. The dam site, reservoir and transmission line are covered by no registration reserves or conditional registration reserves. No mineral claims may be made in no registration reserves. No activity may be undertaken without prior consent of BC Hydro in conditional registration reserves. Further the entire District of Hudson's Hope, the Peace Moberly Tract and the Proposed Peace Boudreau Protected area are also covered by no registration reserves. Portions of the preliminary impact lines on the north bank are not protected by any reserve, however, no mineral claims appear to have been made. Other than reserves held by the MOTI, BC Hydro is not aware of any tenures issued to 3rd parties for the purposes of aggregate production on Crown land that overlap with the Project Activity Zone and preliminary impact lines.
	TRANSPORTATION			
EAC 35	The EAC Holder must develop a Traffic Management Plan to appropriately manage Project-related traffic in and around work sites during construction in a manner that protects wildlife, maximizes worker and public safety, and manages effects on productivity.	Ongoing	In Compliance	This requirement is addressed in the final Construction Safety Management Plan (CSMP), Section 5.4 Traffic Management Plan. Site-specific Traffic Management Plans and Safety Management Plans are required from contractors, and approved by MOTI. These plans include measures such as coordinating Project Scheduling, Traffic Control Plans, addressing posted speeds, lane widths, hazardous zones, lane closures, public notification, etc. to protect wildlife, maximize safety and manage effects on productivity.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 35	The Traffic Management Plan must be developed by a QEP.	Complete	In Compliance	The Traffic Management Plan is described in Section 5.4 of the CSMP. Section 6.0 of the CSMP lists the QPs who prepared the plan.
EAC 35	The Traffic Management Plan must include at least the following: · Maximize the use of existing access corridors.	Ongoing	In Compliance	The project is maximizing the use of existing access corridors as much as possible. This is currently being done in areas along the Transmission line where existing Right Of-Way access exists for maintenance and for clearing in the Eastern Reservoir.
EAC 35	· Equip Project vehicles travelling on Project access roads with VHF/UHF communication radios.	Ongoing	In Compliance	All Project vehicles travelling on Project access roads have VHF/UHF communication radios.
EAC 35	· Control and/or restrict access where required, and as discussed with MOTI.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition.
EAC 35	· Identify access roads to be decommissioned after Project use.	Ongoing	In Compliance	Contractor Traffic Management Plans will identify access roads to be decommissioned. This has included temporary access for clearing, dam site construction, and Hwy 29 realignment.
EAC 35	· Public safety measures.	Ongoing	In Compliance	Public safety measures are addressed in Contractor Traffic Management Plans or Safety Plans, which are reviewed and approved by MOTI. Measures include having Incident Management Plans, Traffic Control Plans, public signage and notification, etc.
EAC 35	· Post speed limits on all construction access roads.	Ongoing	In Compliance	Speed limits are posted throughout the dam site area as well as on all public roadways where construction is taking place. These speed limits are reflective of construction speed zones.
EAC 35	· Work schedules, subject to safety considerations, to minimize delays and nuisance to the public caused by the realignment of Highway 29, particularly during peak visitor periods.	Ongoing	In Compliance	All works on public roadways are subject to Traffic Management Guidelines as provided by MOTI. This includes measures such as maximum delay and work stoppage.
EAC 35	· Inclusion of Traffic Control Plans, Public Information Plans, Incident Plans, and Implementation Plans.	Ongoing	In Compliance	These topics are included in site-specific Contractor Traffic Management Plans.
EAC 35	The Traffic Management Plan must also establish measures for identifying and mitigating effects on local transportation infrastructure resulting from Project activities.	Ongoing	In Compliance	The Traffic Management Plans include a pavement management program. MOTI conducts pavement condition monitoring surveys in the region once every two years travelling in one direction on main roads. BC Hydro has increased the requirement to survey both directions on main roads every two years for all project effected roads. This includes 240 Rd, 269 Rd, 271 Rd, Jackfish Lake Rd, Hwy 97, and Hwy 29.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 35	The Traffic Management Plan must also include at least the following: · Identification of all road modifications, realignments, and improvements on Highway 29 North, Highway 29 South, Jackfish Lake Road, and North Bank Minor Roads that are required to ensure access is maintained and service levels meet the appropriate MOTI standards.	Complete	In Compliance	All road modifications and improvements on the listed roads require approval from MOTI. MOTI has reviewed and approved design standards for 271 Rd, and the segments of Highway 29 that are to be realigned (e.g., at Cache Creek, Halfway River, Farrell Creek, Dry Creek and Lynx Creek).
EAC 35	· Construction of a paved brake-check before the start of the 10% grade on Canyon Drive west of Hudson's Hope and make it a mandatory requirement for Project-related trucks to stop and check vehicle brakes.	Complete	In Compliance	Construction of a paved brake-check was completed in September 2015.
EAC 35	· In consultation with MOTI, identify any additional measures that may be required for public safety (signage, signals, illumination, monitoring etc.)	Ongoing	In Compliance	BC Hydro worked with MOTI to identify any additional required measures that may be required for public safety. Additional measures may be identified in the future based on feedback from MOTI.
EAC 35	· Follow best management practices as outlined in Traffic Management Guidelines for Work on Roadways (BC Ministry of Transportation 2001 and as amended from time to time).	Ongoing	In Compliance	BMPs are written into contracts and being followed for all works on public roadways.
EAC 35	The EAC Holder must provide this draft Traffic Management Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Chetwynd and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review 90 days prior to the commencement of construction.	Complete	In Compliance	The Draft Traffic Management Plan is described in Section 5.4 of the CSMP. The draft CSMP was submitted to the required recipients on October 17, 2014.
EAC 35	The EAC Holder must file the final Traffic Management Plan with EAO, MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, Chetwynd and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band 30 days prior to the commencement of construction.	Complete	In Compliance	The Draft Traffic Management Plan is described in Section 5.4 of the CSMP. The final CSMP was submitted to the required recipients on June 5, 2015. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 35	The EAC Holder must develop, implement and adhere to the final Traffic Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Site-specific Traffic Management Plans and Safety Management Plans are required from contractors, and approved by MOTI. These plans include measures such as coordinating Project Scheduling, Traffic Control Plans, addressing posted speeds, lane widths, hazardous zones, lane closures, and public notification, etc. to protect wildlife, maximize safety and manage effects on productivity. Revision 2 to the CSMP was issued in March 2017. Revision 2 of the CSMP contains updates to Section 5.2.12 Traffic Monitoring and Appendix C, section 2.1 and 2.4.
EAC 36	The EAC Holder must develop and implement a carpool and commuter program as part of the Traffic Management Plan.	Ongoing	In Compliance	The carpool and commuter program is described in Appendix C of the CSMP, Appendix C – Commuter and Carpool Plan was not implemented during the pandemic due to physical distancing guidance by the provincial health authority. The program will resume when permitted. Preferred carpool parking is designated in the main site parking lot.
EAC 36	The EAC Holder will provide a shuttle service for workers between Chetwynd and the Site C dam site if warranted by demand or restrictions on access for private vehicles to the dam site.	Ongoing	In Compliance	Potential carpool coordination websites for works were posted on the public Site C website in the fall of 2015. Please see: https://www.sitecproject.com/job-opportunities/why-work-here A requirement for a shuttle service if warranted by demand or restrictions for workers between Chetwynd and the Site C dam site was placed in the GSS and MCW contracts. The Contractors will monitor demand from their workforce. There are no restrictions on access for private vehicles to the dam site gates. These measures were put on hold during the pandemic due to physical distancing guidance by the provincial health authority.
EAC 36	The EAC Holder must consult with the affected local communities, including Aboriginal communities in the development of a carpool and commuter program.	Complete	In Compliance	The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022.
EAC 37	The EAC Holder must develop a Transportation Monitoring and Follow-up Plan to ensure measures to mitigate Project effects on local transportation infrastructure are effective or need to be adjusted to adequately mitigate the effects.	Complete	In Compliance	The requirements of Condition 37 are addressed in Sections 5.4.10, Section 5.4.12, and Appendix B of the CSMP.
EAC 37	The Transportation Monitoring and Follow-up Plan must be developed by a QEP.	Complete	In Compliance	The Transportation Monitoring and Follow-up Plan is described in Sections 5.4.10, Section 5.4.12, and Appendix B of the CSMP. Section 6.0 of the CSMP lists the QPs who prepared the plan. Appendix B Traffic Monitoring and Mitigation Plan- Fort St. John and North Bank Area Roads was developed in consultation with the City of Fort St. John staff.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 37	The Transportation Monitoring and Follow-up Plan must include at least the following: · On an annual basis during construction and during each year when Project traffic will be using each identified intersection, traffic counts and monitoring of traffic operations at the following intersections: o Beattie Drive in Hudson's Hope o Clarke Avenue in Hudson's Hope o Highway 29 and Canyon Drive in Hudson's Hope o Highway 29 and Jackfish Lake Rd o Highway 97 / Highway 29 in Chetwynd o Highway 97 intersections in Fort St. John, including: o Highway 97 at Old Fort Road in Fort St. John o Highway 97 at 100th Street in Fort St. John o Highway 97 at 85th Avenue in Fort St. John	Ongoing	In Compliance	Intersection monitoring was completed in May 2021 for Year 6 of construction with quarterly monitoring of the dam site entrances. The Traffic and Pavement Monitoring report for the sixth year of construction was submitted to regulatory agencies and local governments on January 27, 2022. The next intersection monitoring data collection will occur in April / May 2022.
EAC 37	· Annual monitoring during construction of traffic operations on local roads to determine if road restrictions for Project-related traffic should be implemented, in accordance with appropriate MOTI standards.	Ongoing	In Compliance	The Traffic and Pavement Monitoring report for the sixth year of construction was submitted to regulatory agencies and local governments on January 27, 2022.
EAC 37	As part of the Transportation Monitoring and Follow-up Plan, the EAC Holder must implement the following 90 days prior to commencement of operations: · Illumination of continuous lightning along Highway 97 through Taylor, from Birch Avenue west to 100th Street access at McMahon Drive, and intersection lightning at Highway 97 and Pine Avenue, 103rd Avenue, and Cherry Avenue	Complete	In Compliance	Continuous lighting was installed in 2015 and is operating in Taylor along Highway 97in accordance with this requirement.
EAC 37	· Installation of changeable message signs on Highway 97 on the south Taylor Hill and on the hill north of Taylor, to be operated as part of the MOTI network that will provide drivers with advanced notification of road conditions, including notification of fog conditions.	Complete	In Compliance	Changeable message signs were installed in 2015 and are operating on Highway 97 in accordance with this requirement.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 37	· Installation of a highway webcam in Taylor to monitor fog conditions, to be operated as part of the MOTI network. The location will be determined in consultation with Taylor and MOTI.	Complete	In Compliance	The webcam was installed in 2017 as part of MOTI's network and can be accessed on DriveBC.
EAC 37	The Transportation Monitoring and Follow-up Plan reporting must occur at least annually during the monitoring and follow-up program period, beginning 180 days after the commencement of construction.	Ongoing	In Compliance	BC Hydro submitted the Year 6 Traffic and Pavement Monitoring report on January 27, 2022.
EAC 37	The EAC Holder must provide the draft Transportation Monitoring and Follow-up Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review within 90 days after the commencement of construction.	Complete	In Compliance	The draft Transportation Monitoring and Follow-up Plan, as part of the CSMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014.
EAC 37	The EAC Holder must file the final Transportation Monitoring and Follow-up Plan with EAO, MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Chetwynd and Aboriginal Groups within 150 days after the commencement of construction.	Complete	In Compliance	The final CSMP was submitted to regulatory agencies, governments, and Indigenous Nations on June 5, 2015. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022.
EAC 37	The EAC Holder must develop, implement and adhere to the final Transportation Monitoring and Follow-up Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro submitted the CSMP on June 5, 2015. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022. The CSMP includes all of the measures in the Transportation Monitoring and Follow-up Plan in section 5.4.10, section 5.4.12, and Appendix B Traffic Monitoring and Mitigation Plan - Fort St. John and North Bank Area Roads. The Traffic and Pavement Monitoring report for the sixthyear of construction was submitted regulators and local communities onJanuary 27, 2022.
EAC 38	The EAC Holder must develop a Public Safety Management Plan to describe how it will implement measures to avoid or manage the effects of the Project on public safety during construction and operations.	Complete	In Compliance	Work has commenced on preparing the Worker, Safety and Security Plan for Tunnel Conversion and Reservoir First Filling. Completion of this plan is scheduled for May 2022. See below for the update to the PSMP for Contruction.
EAC 38	The Public Safety Management Plan must be developed by a QEP.	Complete	In Compliance	The Public Safety Management Plan is described in Section 5.3 of the CSMP. Section 6.0 of the CSMP lists the QP who prepared the plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 38	The Public Safety Management Plan must include at least the following: · Increase public awareness of safety hazards, including navigational hazards, access restrictions and closures during the construction and operation of the Site C reservoir.	Ongoing	In Compliance	The last public safety site inspection was conducted on 8 to 10 December 2021. Appropriate communication is taking place with respect to closures and navigational hazards. Public Safety planning is proceeding for reservoir first filling and operations which includes communication and identification of hazards and appropriate control measures for the public boating on the new reservoir and recreating on the shoreline, once the reservoir is filled and determined to be safe for public use.
EAC 38	· Establish boater communication protocol including communication of navigational hazards during construction and operations.	Ongoing	In compliance	Information about safety is shared publicly using a variety of methods, including the bi-weekly construction bulletin and the quarterly construction notification letter which is sent to Indigenous Nations, local governments and posted online. The Peace River portage program is now operational on a seasonal basis, with information broadly communicated to public. Public safety signs and beacons have been installed on the banks of the Peace River to mark the boundaries of the active construction area. Further, BC Hydro will facilitate the distribution of contractor's public safety management plans as and when needed.
EAC 38	· Develop standard navigation mitigations for signals, markings and notifications, relating to overhead structures such as towers and conductors crossing navigable waters.	Ongoing	In Compliance	Standard navigation mitigations for signals, markings and notifications is being undertaken in compliance with Navigation Protection Act and Canadian Navigable Waters Act and approvals issued under these Acts.
EAC 38	· Manage public water-based access during construction and for the first 5 years of operation.	Ongoing	In Compliance	The Diversion Security and Public Safety Plan has been completed. Appendix 2 of this Plan details the public safety signs (including flashing lights) that will be installed in advance of the completion of the upstream debris boom on the Peace River. Additional measures, including buoys and a triggered audible alarm are recommended as additional controls to protect the public associated with Diversion.
EAC 38	The EAC Holder must provide this draft Public Safety Management Plan to MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review 90 days prior to the commencement of construction and operations.	Complete	In Compliance	The draft CSMP (Section 5.3 Public Safety Management Plan) was submitted to regulatory agencies, governments and Indigenous Nations on October 7, 2014. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 38	The EAC Holder must file the final Public Safety Management Plan with the MOTI, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band 30 days prior to the commencement of construction and operations.	Complete	In Compliance	The final CSMP (Section 5.3 Public Safety Management Plan) was submitted to regulatory agencies, governments and Indigenous Nations on June 5, 2015. A revised CSMP was issued to regulators, agencies and Indigenous Nations on March 9, 2022.
EAC 38	The EAC Holder must develop, implement and adhere to the final Public Safety Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The PSMP for Construction continues to be updated twice per year. The last site visit to conduct a public safety review was carried out in December 2022. The PSMP was updated based on the observations made during that review. No major additional public safety control measures were recommended based on that review. Issuing the 2nd of the 2021 updates is currently held up waiting for the contractor responsible for river based sign repai and maintence to issue his report.
	OUTDOOR RECREATION AND TOURISM			
EAC 39	The EAC Holder must provide information to the Province of Alberta, during construction and operations, to assist in their communications with anglers in Alberta regarding changes in downstream fishing opportunities due to construction activities and longer-term changes in fish community composition.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will provide information regarding changes in downstream fishing opportunities on to the Province of Alberta on an annual basis, commencing when information from the FAHMFP becomes available.
EAC 40	The EAC Holder must finalize and implement the Outdoor Recreation Mitigation Plan to mitigate changes in recreational opportunities and loss of existing recreational areas resulting from the Project.	Ongoing	In Compliance	BC Hydro submitted the draft Outdoor Recreation Mitigation Plan on July 27, 2016 and submitted the final Outdoor Recreation Mitigation Plan on January 27, 2017 with regulatory agencies, governments and Indigenous group. The Plan describes the timing for when different measures will occur. The timing of specific measures is referenced below.
EAC 40	The Outdoor Recreation Mitigation Plan must be developed by a QEP.	Complete	In Compliance	Section 5.0 of the Outdoor Recreation Management Plan lists the QPs who prepared the plan.
EAC 40	The Outdoor Recreation Mitigation Plan must include at least the following to: · Provide technical information to support outdoor recreation providers in adapting to new shoreline conditions.	Ongoing	In Compliance	Section 2.2.1 of the final Outdoor Recreation Mitigation Plan includes information about the provision of technical information and communications strategies that will be used.
EAC 40	· Establish three new boat launch/day use sites, complete with parking, picnic areas and toilets, at Cache Creek, Lynx Creek and Hudson's Hope Shoreline, and accessible via Highway 29.	Ongoing	In Compliance	Section 2.2.2 of the final Outdoor Recreation Mitigation Plan includes information about the boat launches. The design of two new boat launch and day use sites including the connections to Highway 29 is complete. The design of one new boat launch and day use sites is ongoing. Procurement and construction will be scheduled based on other project works in the area.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 40	· Establish at least one public viewpoint at the Site C dam site.	Complete	In Compliance	Section 2.2.2 of the final Outdoor Recreation Mitigation Plan includes information about the viewpoint on the north bank. The viewpoint opened to the public in August 2017.
EAC 40	· Provide approximately $150,000 to the District of Hudson Hope for the enhancement of Alwin Holland Park, or other community shoreline recreation areas.	Complete	In Compliance	Section 2.2.2 of the final Outdoor Recreation Mitigation Plan includes information about the payment which was made to Hudson's Hope in 2017.
EAC 40	· Provide approximately $200,000 for a Community Recreation Site Fund of which $50,000 is for recreational sites on the south bank to support development of new shoreline recreation areas within the Peace River and its tributaries to the Alberta border.	Ongoing	In Compliance	Section 2.2.3 of the final Outdoor Recreation Mitigation Plan describes the strategy and implementation plan for the recreation fund. BC Hydro consulted with local governments on the implementation of the fund in in 2018. Implementation of the fund commenced in 2019 but there were no applicants. After more pre-application engagement with stakeholder groups, BC Hydro held another intake in 2021. Application evaluation is ongoing.
EAC 40	· Outline an approach to governance and allocation of funds from the Community Recreation Site Fund	Ongoing	In Compliance	Section 2.2.3 of the final Outdoor Recreation Mitigation Plan describes the strategy and implementation plan for the recreation fund. BC Hydro consulted with local governments on the implementation of the fund in in 2018. Implementation of the fund commenced in 2019 but there were no applicants. After more pre-application engagement with stakeholder groups, BC Hydro held another intake in 2021. Application evaluation is ongoing.
EAC 40	· Fund the development of a BC Peace River/Site C Reservoir Navigation and Recreation Opportunities Plan	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. The Outdoor Recreation Mitigation Plan describes the plan in section 2.2.4. A BC Peace River / Site C Reservoir Navigation and Recreation Opportunities Plan will be developed to mitigate potential effects on over the long term on outdoor recreation and tourism infrastructure, as well as access to water-based navigation. The planning process and the plan development will be funded by BC Hydro and initiated within one year after reservoir filling.
EAC 40	The EAC Holder must provide this draft Outdoor Recreation Mitigation Plan to FLNR, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band for review within 12 months after the commencement of construction.	Complete	In Compliance	BC Hydro submitted the draft Outdoor Recreation Mitigation Plan on July 27, 2016 to regulatory agencies, governments and Indigenous Nations.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 40	The EAC Holder must file the final Outdoor Recreation Mitigation Plan with EAO, FLNR, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Saulteau, West Moberly, Halfway River, Doig River, Blueberry River and Prophet River First Nations, and McLeod Lake Indian Band within 18 months after the commencement of construction.	Complete	In Compliance	BC Hydro submitted the final Outdoor Recreation Mitigation Plan on January 27, 2017 to regulatory agencies, governments and Indigenous Nations.
EAC 40	The EAC Holder must develop, implement and adhere to the final Outdoor Recreation Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Implementation of the measures as described in the final Outdoor Recreation Mitigation Plan is underway.
EAC 41	The EAC Holder must make reasonable efforts to enter into agreements with the owners of the campground at Cache Creek and the hunting camp near the Site C dam site to compensate for any effects to those facilities, prior to potentia effects on operation of these facilities.	Complete	In Compliance	The sections required for Highway realignment at Cache Creek due to the redesign have all been acquired under Section 3 Agreements.
EAC 41	Where it is both physically and economically feasible, the costs to relocate facilities will be included in the agreements.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition
	COMMUNITY			
	Community Infrastructure			
EAC 42	The EAC Holder must manage increased demands resulting from the influx of the Project workforce on community health care and social services by implementing mitigation measures detailed in a Healthcare Services Plan.	Ongoing	In Compliance	The final Health Care Services Plan was submitted on June 5, 2015. Implementation of the measures in the Plan are underway.
EAC 42	The Healthcare Services Plan must include at least the following: · Implement on-site health care comprised of physician and nursing services to manage non-urgent health issues for the workforce residing in the construction camps.	Ongoing	In Compliance	Section 6.1 of the final Health Care Services Plan describes the on-site health care. The on-site Project Health Clinic opened on March 1, 2016 staffed with a nurse practitioner and advanced care paramedic. BC Hydro provides quarterly data reports to Northern Health on the Project Health Clinic's activities.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 42	· Establish a process for coordination of program delivery with the Northern Health Authority (NHA).	Complete	In Compliance	Project Health Clinic staff have been in contact with Northern Health Authority (NHA) contacts provided by Northern Health to coordinate programs delivered through the clinic. BC Hydro provides a quarterly report to Northern Health on use of the Project Health Clinic. BC Hydro and Health Clinic staff also hosted a tour and meeting with Northern Health staff, members of the local Division of Family Practice, WorkSafe BC and BC Ambulance on October 30, 2017. Meetings were also held in fall 2018 and 2019. A meeting was not held in fall 2020 due to COVID-19. The Health Clinic works closely with the NHA to manage COVID-19 cases related to the project.
EAC 42	· Establish a process for providing new resident workers and their families with local information about health, education and social services.	Complete	In Compliance	Links to information about health, education and social services for each community in the Peace were posted on the public Site C website in fall 2015 to share with new residents and potential new residents. This information is reviewed and updated as needed.
EAC 42	The EAC Holder must provide this draft Healthcare Services Plan to NHA, Peace River Regional District, City of Fort St. John and District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Health Care Services Plan was submitted to NHA and governments on October 17, 2014.
EAC 42	The EAC Holder must file the final Healthcare Services Plan with the NHA, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final Health Care Services Plan was submitted to NHA and governments on June 5, 2015.
EAC 42	The EAC Holder must develop, implement and adhere to the final Healthcare Services Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The final Health Care Services Plan was submitted on June 5, 2015. Implementation of the measures in the Plan are underway. The Project Health Clinic opened on March 1, 2016. BC Hydro held a Joint Health Care Services meeting on November 29, 2019 with Northern Health, WorkSafe BC and physicians from the local Division of Family Practice. A meeting was not held in 2020 or 2021 due to COVID-19. The Health Clinic works closely with the NHA to manage COVID-19 cases related to the project.
EAC 43	The EAC Holder must develop an Emergency Services Plan that includes at least the following to describe how the EAC Holder will implement measures to: · Contract for provision of emergency services (fire services and medical transport)	Ongoing	In Compliance	Audits continue on a regular basis of contractors emergency response systems. This includes liaising with local emergency responders (IE. Fort St John Fire Department).

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 43	· Communicate Project emergency management plans to all emergency service providers, and provide updates as plans are amended	Ongoing	In Compliance	The Site C Emergency Planning Guide was provided to key agencies and local governments to support them in their role in responding to an emergency prior to diversion. BC Hydro met with and reviewed the draft Guide with key response agencies and local governments in prior to issuing the final version. BC Hydro also hosted a tabletop exercise for the Guide with key agencies and local governments.
EAC 43	· Develop site access protocols to enable safe site access during construction and communicate to emergency service providers For this condition, these emergency services refer only to Project need for emergency services during construction and are defined as those services relating to: firefighting, policing, ambulance services, Conservation Officer Service, Search and Rescue Associations, BC Wildfire Management Branch.	Ongoing	In Compliance	BC Hydro continues to work 'hand-in-hand' with the local authorities to ensure quick and efficient access to the Site C construction zone. The BC Hydro on-site security manager meets regularly with the local RCMP and perimeter security Contractor to discuss current and potential upcoming issues that may need additional planning or focus.
EAC 43	The EAC Holder must provide this draft Emergency Services Plan to the appropriate local emergency service providers including the Peace River Regional District, City of Fort St. John, District of Hudson's Hope and District of Taylor for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Emergency Services Plan was submitted to local emergency services providers, and governments on October 17, 2014.
EAC 43	The EAC Holder must file the final Emergency Services Plan with EAO, local emergency service providers including the Peace River Regional District, City of Fort St. John, District of Hudson's Hope and District of Taylor a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final Emergency Services Plan was submitted to local emergency services providers, and governments on June 5, 2015.
EAC 43	The EAC Holder must develop, implement and adhere to the final Emergency Services Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition.
EAC 44	The EAC Holder must assist School Districts 59 and 60 to adjust to potential increased need resulting from the influx of the Project workforce by providing annual information throughout construction about anticipated changes in the resident population and potential new school enrolment.	Ongoing	In Compliance	BC Hydro provided this information on the Project workforce to School Districts 59 and 60 on July 22, 2021. BC Hydro will provide updated information in July 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 45	The EAC Holder must assist the Northern Lights College to adjust to potential increased need resulting from the influx of the Project workforce by providing information annually during construction to identify the number of worker hires.	Ongoing	In Compliance	Site C Contractors are contractually required to report on their work force monthly. BC Hydro has provided this information in "The Summary of the Site C Workforce- Annual report (Total worker, Temporary Foreign Workers and Difficult to Hire Positions)" that was provided to the Northern Lights College and School District 59 and 60 on July 27, 2021. The next report will be issued in July 2022. Monthly project consolidated workforce numbers are also posted monthly on the Site C Website.
EAC 46	The EAC Holder must develop a Waste Management Plan.	Complete	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP.
EAC 46	The Waste Management Plan must be developed by a QEP.	Complete	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP. Section 6.0 of the CEMP lists the QPs who prepared the plan.
EAC 46	The Waste Management Plan must include at least the following: · Identify waste management strategies to manage effects on landfills in the region.	Ongoing	In Compliance	Section 4.16 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 46	· Develop methods for disposal of project-related waste.	Ongoing	In Compliance	Section 4.16 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 46	· Ensure capacity of local landfills to meet disposal requirements of the Project construction activities	Ongoing	In Compliance	BC Hydro has been in communications with local landfills about operations. Landfill operators have not to date expressed concerns about waste streams from the Project negatively affecting landfill capacity.
EAC 46	· Establish resources and funding arrangements to address any potential shortfall in existing landfill capacity.	Ongoing	In Compliance	Operators of the Regional District Landfill have not expressed concern over landfill capacity resulting from increased waste flows from the Site C Project.
EAC 46	· Identify other waste management options through consultation with the Peace River Regional District/municipal agencies responsible for management of solid waste in the area.	Ongoing	In Compliance	All contractors onsite manage a waste stream that is segregated as per the available waste programs in the area. BC Hydro consulted with Peace River Regional District in 2018 and did not identify any additional waste management practices that BC Hydro needs to pursue.
EAC 46	The EAC Holder must provide the Waste Management Plan to the MOE, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope for review a minimum of 90 days prior to the commencement of construction activities.	Complete	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP for the Project. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014
EAC 46	The EAC Holder must file the final Waste Management Plan with the EAO, MOE, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope a minimum of 30 days prior to the commencement of construction activities.	Complete	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to EAO, FLNR, MOE, Indigenous Nations, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope in accordance with requirements

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 46	The EAC Holder must develop, implement and adhere to the final Waste Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.16 of the CEMP requires that contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 47	The EAC Holder must mitigate actual effects on the functionality of local water and sewage systems by implementing measures detailed in a Local Infrastructure Mitigation Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro established mitigation and/or monitoring programs with the District of Hudson's Hope, City of Fort St. John and the District of Taylor for their water and sewage systems as appropriate, in their community agreements. BC Hydro worked with the PRRD to identify and implement mitigation required for their Charlie Lake Outfall prior to diversion. BC Hydro is working with the PRRD to establish a similar agreement for the mitigation or monitoring required due to creation of the reservoir. BC Hydro will submit the draft Local Infrastructure Mitigation Plan to governments and Indigenous Nations, a minimum of 360 days prior to reservoir filling. BC Hydro will submit the final Local Infrastructure Mitigation Plan to the EAO, governments and Indigenous Nations, a minimum of 30 days prior to reservoir filling.
EAC 47	The Local Infrastructure Mitigation Plan must include at least the following: A strategy for ongoing communication with local municipalities. · Specific mitigation measures (system relocation, replacement, monitoring) that may be required to ensure the functionality of existing municipal water and sewer systems.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition
EAC 47	· Identification of resources and funding arrangements associated with specific mitigation measures that may be required to ensure functionality of existing municipal water and sewer systems.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition
EAC 47	The EAC Holder must provide this draft Local Infrastructure Mitigation Plan to the Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Aboriginal Groups for review a minimum of 360 days prior to reservoir filling.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 47	The EAC Holder must file the final Local Infrastructure Mitigation Plan with EAO, Peace River Regional District, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Aboriginal Groups a minimum of 30 days prior to reservoir filling.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 47	The EAC Holder must develop, implement and adhere to the final Local Infrastructure Mitigation Plan, and any amendments, to the satisfaction of EAO.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition
	Housing			
EAC 48	The EAC Holder must manage the increased demands for housing in the City of Fort St. John, resulting from the influx of the Project workforce by implementing mitigation measures detailed in a Housing Plan.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The implementation of the measures in the Plan is underway. The construction of the 50 rental units of housing is complete. BC Hydro is currently renting 25 units and the other units are being administered by BC Housing.
EAC 48	The Housing Plan must include at least the following: · Establish a community camp co-coordinator.	Complete	In Compliance	The coordinator identified and posted logistical information on the public Site C website to support workers consideration of moving to a local community. This information is reviewed and updated regularly.
EAC 48	· Establish a process for adjusting camp capacity throughout the construction phase to accommodate direct Project workers.	Complete	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Revision 2 describes in section 5.2 how the camp was structured to allow the accommodation of direct Project workers. BC Hydro has constructed the Two Rivers Lodge (Lodge) at the dam site worker accommodation camp to meet anticipated demand for camp housing at the dam site location for the Project workforce. The first beds in the Lodge opened on February 29, 2016 with the last beds opening on September 1, 2016 for a total of approximately 1,600 beds. The camp is planned and contracted to allow additional phased units to be added to meet the on-site housing needs of the workforce through the course of the Project construction if needed.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 48	· Expand affordable rental housing supply in the City of Fort St. John by building 50 rental units to be owned and operated by BC Housing or an approved non-profit operator. Immediately on completion of the housing development, 40 of the rental units will be available for BC Hydro worker housing and 10 will be available to low to moderate income households. Upon completion of the Site C construction phase, the 40 worker housing units will be made available to low to moderate income households.	Ongoing	In Compliance	Section 5.3 of the Housing Plan and Housing Monitoring and Follow-up Program describes the plan to build the additional rental units. BC Hydro completed a contract with BC Housing on July 19, 2016. BC Housing issued a request for proposal in December 2016 for a design-build team for the Project. The construction of the 50 rental units of housing is complete. BC Hydro is renting 25 of the units and the other units are being administered by BC Housing.
EAC 48	· Expand RV accommodation by building 20 new temporary long-stay RV accommodations.	Complete	In Compliance	Section 5.4 of the Housing Plan and Housing Monitoring and Follow-up Program describes the plan to build the long-stay RV accommodations. The RV spaces at Peace Island Park operated by the District of Taylor have been completed. Taylor opened the spaces to the public in early summer 2018.
EAC 48	· Provide approximately $250,000 to emergency or transitional housing providers in the City of Fort St. John.	Complete	In Compliance	To date, BC Hydro has provided the following funding for emergency and transitional housing programs in Fort St. John: $25,000 contribution to Skye's Place in September 2015 to support transitional housing; $25,000 contribution to Meaope Transition House in September 2015 to support transitional housing; and $200,000 contribution to Salvation Army in November 2016 to support emergency housing.
EAC 48	· Monitor net migration to reserves as a result of the Project.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes how monitoring net migration to reserves is completed in section 7.2.The report for 2020 was submitted April 29, 2021. The report for 2021 will be submitted in May 2022.
EAC 48	The EAC Holder must provide this draft Housing Plan to the City of Fort St. John, and Aboriginal Groups for review a minimum of 90 days prior to the construction of housing.	Complete	In Compliance	The draft Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the City of Fort St. John and Indigenous Nations on April 7, 2015.
EAC 48	The EAC Holder must file the final Housing Plan with the EAO, the City of Fort St. John and Aboriginal Groups a minimum of 30 days prior to the construction of housing.	Complete	In Compliance	The final Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the EAO, the City of Fort St. John and Indigenous Nations on June 5, 2015. Revision 2 of the final plan was submitted on December 12, 2016.
EAC 48	The EAC Holder must develop, implement and adhere to the final Housing Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan Rental Apartments Monitoring Report- 2021 has not been submitted to the City and BC Housing due to a delay in CMHC posting the rental data; anticipated to be released on February 28, 2022. The First Nations Net Migration report for 2021 will be submitted in May 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 49	The EAC Holder must ensure that measures implemented under the Housing Plan are effective in mitigating increased demands for housing in the City of Fort St. John by developing and implementing a Housing Monitoring and Follow-up Program for the construction phase.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan Rental Apartments Monitoring Report - 2021 has not been submitted to the City and BC Housing due to a delay in CMHC posting the rental data; anticipated to be released on February 28, 2022. The First Nations Net Migration report for 2021 will be submitted in May 2022. BC Hydro meets with the City of Fort St. John several times a year to discuss any topics of interest to the City as well as implementation of conditions.
EAC 49	The Housing Monitoring and Follow-up Program must include at least the following to ensure measures to mitigate Project effects are effective or need to be adjusted to adequately mitigate the effects: · The EAC Holder must develop an approach for monitoring the apartment rental vacancy rate and price as published by the CMHC semi-annually, for the Fort St. John area and must define the nature and duration of market changes that may require additional mitigation.	Complete	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes monitoring of the apartment rental vacancy rate and price as published by the Canada Mortgage and Housing Corporation (CMHC) and defines the nature and duration of market changes that may require additional mitigation.
EAC 49	The EAC Holder will review the monitoring results with the City of Fort St. John and discuss if additional mitigation is required and mitigation options.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 was submitted in December 2016. The Housing Plan Rental Apartments Monitoring Report - 2021 has not been submitted to the City and BC Housing due to a delay in CMHC posting the rental data; anticipated to be released on February 28, 2022. The First Nations Net Migration report for 2021 will be submitted in May 2022. BC Hydro meets with the City of Fort St. John several times a year to discuss any topics of interest to the City as well as implementation of conditions.
EAC 49	· Reports must be provided semi-annually during construction to BC Housing and City of Fort St. John, beginning 180 days following the commencement of construction.	Ongoing	In Compliance	BC Hydro submitted the Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 on December 12, 2016 which reflects the change by CMHC from semi-annual reporting to annual reporting. The monitoring was updated to reflect only fall monitoring but the threshold to consider mitigation was lowered from two reporting cycles to one to offset this change. BC Hydro discussed the change with the City prior to submitting the revised Plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 49	· The EAC Holder must work with Aboriginal communities in the LAA (as defined in EIS) to track net migration to reserves attributable to Project effects, on rental market conditions in the City of Fort St. John and to identify if additional mitigation is needed.	Ongoing	In Compliance	The Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 describes how monitoring net migration to reserves is completed in section 7.2.The report for 2020 was submitted April 29, 2021. The report for 2021 will be submitted in May 2022. BC Hydro has requested Indigenous communities to provide information they would like included in the report for 2021.
EAC 49	The EAC Holder must provide this draft Housing Monitoring and Follow-up Program to the City of Fort St. John and Aboriginal Groups for review within 90 days after the commencement of construction.	Complete	In Compliance	The draft Housing Plan and Housing Monitoring and Follow-Up Program was submitted to the City of Fort St. John and Indigenous Nations on April 7, 2015.
EAC 49	The EAC Holder must file the final Housing Monitoring and Follow-up Program with EAO, City of Fort St. John and Aboriginal Groups within 150 days following the commencement of construction.	Complete	In Compliance	The final Housing Plan and Housing Monitoring and Follow-Up Program, was submitted to the EAO, the City of Fort St. John and Indigenous Nations on June 5, 2015. BC Hydro submitted Revision 2 of the Housing Plan and Housing Monitoring and Follow-Up Program on Dec 12, 2016. The Plan was updated due to CMHC eliminating its spring data collection period. As such, the revised plan includes monitoring once a year, but the threshold when mitigation would be explored was reduced to one monitoring cycle to maintain the same time frame (12 months).
EAC 49	The EAC Holder must develop, implement and adhere to the final Housing Monitoring and Follow-up Program, any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro submitted the Housing Plan and Housing Monitoring and Follow-up Program Rev. 2 on December 12, 2016 which reflects the change by CMHC from semi-annual reporting to annual reporting. The monitoring was updated to reflect only fall monitoring but the threshold to consider mitigation was lowered from two reporting cycles to one to offset this change.
	Regional Economic Development			
EAC 50	The EAC Holder must provide a one-time contribution of $160,000 to the District of Hudson's Hope within one year of reservoir filling to address permanent inundation of land no longer available for development.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will provide a one time contribution to the District of Hudson's Hope within one year of reservoir filling to address permanent inundation of land no longer available for funding.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 51	The EAC Holder must develop and implement a Business Participation Plan (Plan).	Ongoing	In compliance	The Site C Project continued to maintain an active business directory, with approximately 1,500 businesses registered. This business directory is shared with major contractors, including PRHP, ATCO and AFDE. BC Hydro also uses the business directory for internal requirements. Information about BC Hydro-issued public procurement opportunities are posted to BCBid, on the Site C website (where appropriate) and emailed to the Site C business directory. In this period, 13 emails were sent to the business directory and information on major procurements are provided to local and regional governments and local and provincial business association stakeholders. Other activities include: The Site C procurement forecast, including regularly updated major procurement/contract fact sheets, is available on the Site C website. BC Hydro responded to enquiries related to business opportunities in this period, providing information and linking businesses to relevant opportunities with BC Hydro and the Site C contractors. BC Hydro is an active member of several local and regional Chamber organizations (e.g. Fort St. John, Chetwynd), attending meetings and providing presentations as appropriate. This satisfies the requirement to build relationships and increase awareness in the region.
EAC 51	The Plan must include at least the following: · Increase awareness in the business community about Project procurement opportunities.	Ongoing	In compliance	As part of ongoing community relations, BC Hydro will continue to meet with local economic development offices and business organizations to provide upto-date information on business opportunities with the Site C project. Site C's major contractors have also led several procurements through their own internal systems and maintain active vendors lists. BC Hydro provides information to businesses.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 51	· Develop partnerships with local business organizations and economic development offices and programs to communicate and maximize opportunities for local businesses.	Ongoing	In compliance	The Site C Project continued to maintain an active business directory, with approximately 1,500 businesses registered. This business directory is shared with major contractors, including PRHP, ATCO and AFDE. BC Hydro also uses the business directory for internal requirements. Information about BC Hydro-issued public procurement opportunities are posted to BCBid, on the Site C website (where appropriate) and emailed to the Site C business directory. In this period, 13 emails were sent to the business directory and information on major procurements are provided to local and regional governments and local and provincial business association stakeholders. Other activities include: The Site C procurement forecast, including regularly updated major procurement/contract fact sheets, is available on the Site C website. BC Hydro responded to enquiries related to business opportunities in this period, providing information and linking businesses to relevant opportunities with BC Hydro and the Site C contractors. BC Hydro is an active member of several local and regional Chamber organizations (e.g. Fort St. John, Chetwynd), attending meetings and providing presentations as appropriate. This satisfies the requirement to build relationships and increase awareness in the region. As part of ongoing community relations, BC Hydro will continue to meet with local economic development offices and business organizations to provide up-to-date information on business opportunities with the Site C project. Site C's major contractors have also led several procurements through their own internal systems and maintain active vendor's lists.
EAC 51	The EAC Holder must provide this draft Plan to the City of Fort St. John, District of Hudson Hope, District of Taylor and Peace River Regional District for review 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Business Participation Plan was submitted to regulatory agencies and governments on October 7, 2014.
EAC 51	The EAC Holder must file the Final Plan with EAO, City of Fort St. John, District of Hudson's Hope, District of Taylor, and Peace River Regional District a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final Business Participation Plan was submitted to regulatory agencies and governments on June 5, 2015.
EAC 51	The EAC Holder must develop, implement and adhere to the Final Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In compliance	As described in the Business Participation Plan (available on the Site C website), BC Hydro will publicly report on business participation activities on an annual basis. The 2020-2021 Annual Report for the Business Participation Plan was made available on the Site C website in July 2021. The 2021-2022 annual report will be available on the Site C website in July 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 52	The EAC Holder must support the North and South Peace non-profit organizations by establishing a community non-profit fund and providing an annual contribution of $100,000 per year to the fund during the construction phase. Organizations that support children and families will be eligible to apply for funding from the community non-profit fund.	Ongoing	In Compliance	BC Hydro worked with local governments and non-profit organizations active in the Peace region to establish the BC Hydro Peace Region Non-Profit Community Fund ("Fund"), now called the BC Hydro Generate Opportunities 'GO Fund". The Fund will support programs provided by non-profit organizations in target communities in the North and South Peace (Chetwynd, Hudson's Hope, Taylor, Fort St. John and PRRD) throughout Project construction. BC Hydro provides an annual contribution of $100,000 per year to the fund for eight years. BC Hydro established the Regional Decisionmaking Committee in June 2016. The GO Fund was launched jointly by BC Hydro, Northern Development Initiative Trust (NDIT) and the Committee on September 13, 2016. All information is available on website: www.northerndevelopment.bc.ca/funding programs/capacity-building/bc-hydro-go-fund/. Applications will be accepted continuously with four intake reviews (November, February, May, and August).
EAC 53	The EAC Holder must develop and implement a Labour and Training Plan.	Ongoing	In Compliance	The final Labour and Training Plan was submitted to regulatory agencies, governments, Indigenous Nations, School Districts 59 and 60, and Northern Lights College on June 5, 2017. The Labour and Training Plan requires an annual report on the Project workforce be submitted to Training institutions on the North. "The Summary of the Site C Workforce-Annual report (Total worker, Temporary Foreign Workers and Difficult to Hire Positions)" was provided to the Northern Lights College and School District 59 and 60 on July 27, 2021 The next report will be issued in July 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 53	The Labour and Training Plan must include at least the following: · Where labour requirements cannot be met through the local labour pool, develop a strategy for attracting new entrants to the local labour force.	Ongoing	In Compliance	BC Hydro has undertaken the following initiatives described in the Plan to date: - Prior to March 18, 2020 Site C contractors continued to participate in regional jobs fairs throughout the reporting period. This includes participating in job fairs in the Indigenous communities, local job fairs, and job fairs throughout B.C. included Vernon, Kelowna and Vancouver Island. Contractors participated in virtual career fairs on 2020, and restructured local job fairs in Fort St John in 2020 and early 2021. In late 2021 Job fairs again reverted to on-line due to the Omicron Covid 19 variant. - BC Hydro has contractually required Site C Contractors to report on their work force monthly, including reporting on categories of workers that are difficult to hire for the Peace Region labour pool. - Developed and implemented the Indigenous Employment and Information Day. The session is an opportunity for networking between contractors and the training and employment representatives from regional Indigenous communities. One session was held virtually in February 2021 - BC Hydro required Site C contractors to post Site C employment opportunities on the WorkBC and Employment Connections websites. BC Hydro has also facilitated contact between new Site C contractors and Employment Connections to ensure Site C Contractors continue to post Site C employment opportunities. BC Hydro monitors compliance with these postings on a regular basis - BC Hydro has contractually required Site C contractors to provide information on the number and job category of foreign workers, management, and supervisors employed in Canada on Project related work. - In September 2017, the Contractors Labour Committee agreed to establish an Indigenous labour subcommittee. The purpose of the subcommittee is to support Indigenous training, labour and employment on Site C through communication, consultation, coordination and cooperation among contractors on the Project. - BC Hydro was unable to host a Site C Employment and Training Information session for local employment agencies and training organizations at Site in 2020, due to Covid. This was held virtually in 2021, and we will look at hosting this virtually again in 2022. This session is an opportunity for local employment and training organizations to connect with Site C Contractors on their current and future employment and training needs. Contractors presented on their current and future employment needs, the scope of their work on the project, the types of worker typically employed and their hiring requirements. The goal of this event was to assist in facilitating training as well as facilitating local employment on the project.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 53	· Resources and funding arrangements with education providers to ensure required training and skill development programs are available.	Ongoing	In Compliance	BC Hydro has undertaken the following initiatives described in the Plan to date: -continued to support trades and skilled training through the BC Hydro Trades and Skilled Training Bursary Awards program through Northern Lights College. -As of December 2021, 274 students had received bursaries, including 122 Indigenous students who have benefitted from the bursary in programs such as electrical, welding, millwright, cooking, social work, and many others. The bursary ended in October 2018, with remaining amounts still available. -BC Hydro has worked with the Northern Lights College Foundation to extend the bursary and reserve the remaining bursary amounts for local workers with trades programs directly needed for project work. As a part of this agreement, funds were set aside for the BC Hydro and Northern Lights College Pre-Carpentry Skills Pilot Program, Site C. BC Hydro and the Northern Lights College Foundation can also agree to other joint BC Hydro and Northern Lights College (NLC) pre-skills programs as appropriate. -In January 2021, BC Hydro provided additional funding to extend the bursary program to December 31, 2022. -maintained regular contact with relevant Ministry's to update relevant departments with workforce requirements for the Project and provide workforce information.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 53	Participation in regional workforce training initiatives during construction	Ongoing	In Compliance	BC Hydro has maintained on-going contact with training providers/institutions and employment agencies in Northeast British Columbia and facilitated contact between these agencies and Site C contractors. In August 2013, Northern Lights College Foundation started distributing the BC Hydro Trades and Skilled Training Bursary Awards. As of December 2021, 274 students had received bursaries, including 122 Indigenous students who have benefitted from the bursary in programs such as electrical, welding, millwright, cooking, social work, and many others. The bursary ended in October 2018, with remaining amounts still available. BC Hydro has worked with the Northern Lights College Foundation to extend the bursary and reserve the remaining bursary amounts for local workers with trades programs directly needed for project work. As a part of this agreement, funds were set aside for the BC Hydro and Northern Lights College Pre-Carpentry Skills Pilot Program, Site C. BC Hydro and the Northern Lights College Foundation can also agree to other joint BC Hydro and Northern Lights College (NLC) pre-skills programs as appropriate. In January 2021, BC Hydro provided additional funding to extend the bursary program to December 31, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 53	· Identification of apprenticeship opportunities during construction	Ongoing	In Compliance	BC Hydro has undertaken the following initiatives described in the Plan to date: - Required Site C contractors to adhere to the provincial government's policy "Apprentices on Public Projects in British Columbia" which requires identification of apprentices being utilized on the Site C Project. BC Hydro requires Site C contractors contractually to comply with the provincial government policy which requires contractors to demonstrate they are engaged in apprenticeship training and use apprentices on the work site. BC Hydro will be ensuring compliance with the any updated policy as appropriate to applicable contracts - BC Hydro has also included broad apprentice targets in the Main Civil Works (MCW) contract. In addition, both the Generating Station and Spillway (GSS) Civil contract and the Transmission lines and the substation contracts have apprentice targets included in them that were developed based on the request of government as outlined above to assist companies to aspire to a 25 per cent or greater target for apprentices. Apprentice targets are also included in the Balance of Plant contracts, as appropriate -BC Hydro meets regularly with Site C Contractors via the Contractors Labour Committee. A part of this meeting's agenda includes determining what support is required for training workers for upcoming project required skills. - Site C contractors have noted that certain trades will continue to be in high demand during peak Project construction periods. As such, in early 2020, major on site contractors started exploring new opportunities for apprentice and other training to take place on site. BC Hydro worked with Northern Lights College and Site C contractors to develop three on site pilot programs. The programs included a new program with Northern Lights College designed for local Indigenous candidates interested in becoming heavy equipment operators on the Site C Project, a re launch of the Pre Carpentry Skills Program with Northern Lights College delivered in 2019, and a Fish Monitoring Program. These programs were temporarily postponed in March 2020, due to COVID-19. In 2021, the program for local Indigenous candidates interested in becoming heavy equipment operators on the Site C Project was restructured and was delivered successfully in October 2021.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
				In 2021, The BC Hydro and Northern Lights College Fish Monitoring Program was also restructured to contain additional wildlife training and was renamed the Environmental Training Program. With COVID-19 safety plans in place, the program was successfully delivered offsite in June 2021. The program included workforce training certifications in preparation for employment opportunities on the Project. Eight participants from Treaty 8 Nations participated in the online and in-person training program. All candidates successfully completed the program.
EAC 53	· Provision of additional day-care spaces in Fort St. John to increase spousal participation in the labour market.	Complete	In Compliance	Going forward, BC Hydro, Site C contractors, and Northern Lights College will be exploring opportunities for implementing these programs, or restructured programs that allow for possible physical distancing and/or smaller cohorts, in the future"
EAC 53	The EAC Holder must provide this draft Labour and Training Plan to the City of Fort St John, District of Taylor, District of Hudson Hope, Peace River Regional District, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Labour and Training Plan was submitted to regulatory agencies, governments, Indigenous Nations, School Districts 59 and 60, and Northern Lights College on October 17, 2014.
EAC 53	The EAC Holder must file the final Labour and Training Plan with EAO, City of Fort St John, District of Taylor, District of Hudson Hope, Peace River Regional District, Aboriginal Groups, School Districts 59 and 60, and Northern Lights College a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final Labour and Training Plan was submitted to regulatory agencies, governments, Indigenous Nations, School Districts 59 and 60, and Northern Lights College on June 5, 2017.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 53	The EAC Holder must develop, implement and adhere to the final Labour and Training Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The Summary of the Site C Workforce - Annual report (Total worker, Temporary Foreign Workers and Difficult to Hire Positions) was provided to the Northern Lights College and School District 59 and 60 on July 27,2021. The next report will be issued in July 2022 .
EAC 54	The EAC Holder must develop an Aboriginal Training and Inclusion Plan.	Complete	In Compliance	The Aboriginal Training and Inclusion Plan (June 2015) is available on the Project website at: https://www.sitecproject.com/sites/default/files/Aboriginal_Training_and_Inclusion_Plan.pdf

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 54	The Aboriginal Training and Inclusion Plan must include at least the following: · Description of a protocol and plan for the communication of employment opportunities to Aboriginal groups.	Ongoing	In Compliance	BC Hydro has undertaken the following initiatives described in the Plan to date: -BC Hydro continues to post Site C Project job opportunities on the WorkBC and Employment Connections websites and links to these postings on the Site C Project website. These sites and the hyperlinks are provided as standing information in the bi-weekly information updates sent out by email to Indigenous Nations. BC Hydro's Indigenous Employment and Training Program Specialist in Fort St. John continued to actively work with Indigenous communities to highlight the opportunities both on Site C as well as with BC Hydro broadly. Developed and implemented the Indigenous Employment and Information Day. The session is an opportunity for networking between contractors and the training and employment representatives from regional Indigenous communities. One virtual session was held in February 2021. Site C contractors have noted that certain trades will continue to be in high demand during peak Project construction periods. As such, in early 2020, major on site contractors started exploring new opportunities for apprentice and other training to take place on site. BC Hydro worked with Northern Lights College and Site C contractors to develop three on site pilot programs. The programs included a new program with Northern Lights College designed for local Indigenous candidates interested in becoming heavy equipment operators on the Site C Project, a re launch of the Pre Carpentry Skills Program with Northern Lights College delivered in 2019, and a Fish Monitoring Program. These programs were temporarily postponed in March 2020, due to COVID-19. In 2021, the program for local Indigenous candidates interested in becoming heavy equipment operators on the Site C Project was restructured and was delivered successfully in October 2021. In 2021, The BC Hydro and Northern Lights College Fish Monitoring Program was also restructured to contain additional wildlife training and was renamed the Environmental Training Program. With COVID-19 safety plans in place, the program was successfully delivered offsite in June 2021. The program included workforce training certifications in preparation for employment opportunities on the Project. Eight participants from Treaty 8 Nations participated in the online and in-person training program.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
				This program included workforce training certification in preparation for employment opportunities. The program also included electrofishing and swift water training. Students received a cheque from The BC Hydro Trades & Skilled Training Indigenous Award as completion/stipend amount for finishing the program. - These programs were 14-day programs designed for new workers or workers new to the trade with preference given to local Indigenous candidates. The courses were to be partly run at the worker accommodation camp and the 14 days were intended to reflect a typical Site C schedule. Going forward, BC Hydro, Site C contractors, and Northern Lights College will be exploring opportunities for implementing these programs, or restructured programs that allow for possible physical distancing and/or smaller cohorts, in the future.
EAC 54	· Inclusion of evaluation criteria for hiring and training Aboriginal persons in contractor procurement packages.	Ongoing	In Compliance	- Results of these initiatives are described in the Aboriginal Training and Inclusion Plan Annual Report, submitted to the EAO and made available to Indigenous Nations through the Project website. Indigenous Nations are notified of annual reports through the bi-weekly Site C Information Update emails. The 2020-2021 ATIP Annual Report, describing activities from April 2020 to March 2021 was submitted to the EAO on March 31, 2021. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022.
EAC 54	· Strategies for capacity building, education, and training associated with Aboriginal participation in the labour market, including construction, trades, and other indirect and induced sectors for Aboriginal workers, as these jobs are likely to be longer lived than those related strictly to construction.	Ongoing	In Compliance	During this reporting period, the reported number of Indigenous people working on Site C ranged from 281 to 356.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 54	· Resources and funding arrangements to support training, industry, and Aboriginal partnership opportunities in the region. Provide $30,000 to the to the Minerva Foundation for three years to support Treaty 8 First Nation women in northeast BC wishing to participate in the Minerva Foundation's Combining Our Strength Initiative ($10,000 provided to date.).	Complete	In Compliance	As of 2017, BC Hydro has fulfilled its commitment of providing $30,000 in funding to Minerva Foundation to support Treaty 8 First Nation women in northeast BC wishing to participate in the Minerva Foundation's Combining Our Strength Initiative. This funding was provided over three years from 2014 to 2017.
EAC 54	This is in addition to funding provided to date to Northern Lights College Foundation ($1 million over five years), Northern Development Opportunities Program ($175,000), Northern Opportunities School District Counsellor ($184,000), NENAS NEATT Program ($100,000) and Oho Education ($16,600).	Ongoing	In Compliance	In August 2013, Northern Lights College Foundation started distributing the BC Hydro Trades and Skilled Training Bursary Awards. As of December 2021, 287 students had received bursaries, including 134 Indigenous students who have benefitted from the bursary in programs such as electrical, welding, millwright, cooking, social work, and many others. The bursary ended in October 2018, with remaining amounts still available. BC Hydro has worked with the Northern Lights College Foundation to extend the bursary and reserve the remaining bursary amounts for local workers with trades programs directly needed for project work. As a part of this agreement, funds were set aside for the BC Hydro and Northern Lights College Pre-Carpentry Skills Pilot Program, Fish Monitoring, Environmentla training and Pre Heavy Equipment Operator programs at Site C. BC Hydro and the Northern Lights College Foundation can also agree to other joint BC Hydro and Northern Lights College (NLC) pre-skills programs as appropriate. After a review of the Bursary program, in March 2021, BC Hydro provided additional funds to the Northern Lights College Foundation to continue the bursary for an additional year.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 54	· Aboriginal Business Participation Strategy to maximize opportunities for Aboriginal businesses, incorporating at least the following: o Obtaining information from Aboriginal suppliers in the LAA, and from other Aboriginal groups with whom BC Hydro is engaged about the Project, about their business capacity and capabilities to provide goods and services for the Project	Ongoing	In Compliance	BC Hydro supports the advancement of economic opportunities for Indigenous Nations and is working with Indigenous businesses with respect to contracting opportunities on the Project. In addition, BC Hydro's contractors are required to make efforts to provide opportunities for subcontracting, employment and training for Indigenous businesses and individuals, and to report on Indigenous inclusion in the performance of their work. Indigenous businesses have been awarded work on the Site C Project in the following areas: vegetation clearing; site preparation, roads and bridges; highway construction; grass seed supply; wetland mitigation; safety buoys; project health clinic; substation work; environmental monitoring; fish habitat enhancement; civil construction; warehouse construction; erosion and sediment control; quarry development and rip rap production. BC Hydro continues to communicate with the First Nations about potential procurement opportunities, sharing information about upcoming work, updating inventories on First Nation owned and affiliated businesses, and pro-actively informing them about upcoming tenuring events.
EAC 54	o Direct engagement with the local Aboriginal business community, including sponsoring and participating in Aboriginal business events and conferences.	Ongoing	In Compliance	BC Hydro continues to engage the local First Nations, Site C Contractors, the Site C business directory, job fairs and procurement process support.
EAC 54	o Implementation of BC Hydro's Aboriginal Contract and Procurement Policy.	Ongoing	In Compliance	BC Hydro's procurement and Indigenous Relations staff are available to discuss procurement processes and ways to stay informed about upcoming procurements. BC Hydro works closely with Indigenous communities and businesses to understand their capacity and interest with respect to the Project and identification of potential contracting opportunities.
EAC 54	The EAC Holder must provide this draft Aboriginal Training and Inclusion Plan to Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Aboriginal Training and Inclusion Plan was submitted to Indigenous Nations on October 17, 2014.
EAC 54	The EAC Holder must file the final Aboriginal Training and Inclusion Plan with EAO and Aboriginal Groups a minimum of 30 days prior to construction.	Complete	In Compliance	The final Aboriginal Training and Inclusion Plan was submitted to EAO and Indigenous Nations on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 54	The EAC Holder must develop, implement and adhere to the final Aboriginal Training and Inclusion Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Results of initiatives conducted under Aboriginal Training and Inclusion Plan (ATIP) are described in annual reports submitted to the EAO and made available to Indigenous Nations through the Project website. Indigenous Nations are notified of annual reports through the bi-weekly Site C Information Update emails. The 2020 -2021 ATIP Annual Report, describing activities from April 2020 to March 2021 was submitted to the EAO on March 31, 2021. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro will update the ATIP as required based on new information and will continue to implement initiatives described in the plan throughout construction.
EAC 55	The EAC Holder must manage increased demands on community recreational programs and services resulting from the influx of the Project workforce by implementing mitigation measures detailed in a Recreation Program for residents of the work camp, in consultation with the City of Fort St. John.	Ongoing	In Compliance	BC Hydro signed a Community Measures Agreement with the City of Fort St. John on April 22, 2016 which addressed mitigation for camp resident use of City recreational services.
EAC 55	If the recreational services required by residents of the camp extend beyond that provided through in-house (EAC Holder) facilities and programming, the EAC Holder must identify, through consultation with the City of Fort St. John, additional facility and/or programming needs and must provide the resources required to meet those needs.	Ongoing	In Compliance	BC Hydro signed a Community Measures Agreement with the City of Fort St. John on April 22, 2016 which addressed mitigation for camp resident use of City recreational services.
EAC 55	The EAC Holder must develop a draft Recreation Program for review by the City of Fort St. John and the Peace River Regional District a minimum of 90 days prior to the commencement of camp operations.	Complete	In Compliance	The draft Recreation Program was submitted to City of Fort St. John, and PRRD on October 17, 2014.
EAC 55	The EAC Holder must file the final Recreation Program with EAO, City of Fort St. John and Peace River Regional District a minimum of 30 days prior to the commencement of camp operations.	Complete	In Compliance	The final Recreation Program was submitted to EAO, City of Fort St. John, and PRRD on June 5, 2015.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 55	The EAC Holder must develop, implement and adhere to the final Recreation Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro has made payments to the City in accordance with the Community Measures Agreement for Year 1-7 of the Project.
	HUMAN HEALTH			
	Potable and Recreational Water Quality			
EAC 56	The EAC Holder must ensure that wells affected by changes to groundwater levels within 1 km of the reservoir or Peace River continue to function as reliable and safe sources of water for human consumption by monitoring potentially affected wells, with the approval of potentially affected well owners, for significant long-term well quality issues.	Ongoing	In Compliance	BC Hydro commenced monitoring of groundwater in June 2015 at representative water sampling locations selected based on historical well drill logs and spatial proximity to water wells within 1 km of the reservoir. This program was implemented as an alternative to monitoring private wells for which BC Hydro cannot control access, operation, maintenance, or possible contamination. A voluntary well monitoring program was subsequently initiated starting in fall 2016. For those willing to participate in the monitoring program, BC Hydro requested information on wells, and if used for drinking water, requested approval to complete well water testing. This program has been ongoing ever since, with baseline water quality analysis and/or questionnaire completion with well owner permission in one or more year of 2016 through 2020. Monitoring in fall 2017 expanded the program to include well yield testing where feasible. Monitoring in 2021 was conducted in the spring (3 wells were sampled and 16 questionnaires completed) and fall (17 questionnaires completed). Well owners whom BC Hydro was unable to successfully contact to schedule monitoring in advance of planned field programs, or who requested to join the voluntary program after the planned event, are considered for inclusion in future monitoring events. Implementation of twice per year monitoring will include contact with drinking water well owners with a brief questionnaire on well operations and any potential changes in water quality. Water quality and well yield testing will be completed on an as-needed basis in private drinking water wells, if potential changes or concerns are identified.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 56	Monitoring must be done twice a year for 10 years, beginning annually from the outset of construction.	Ongoing	In Compliance	Monitoring will continue for a period of 10 years from the date of the initial voluntary sampling event in October 2016.
EAC 56	If any functionality problems such as poor water quality or low yield result from the Project, the EAC Holder must work with the well owner(s) to provide an alternate source of potable water.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. If testing finds issues with water quality or yield caused as a result of the project, BC Hydro will work with the well owner(s) to provide an alternate source of potable water.
	Ambient Air Quality			
EAC 57	The EAC Holder must develop an Air Quality Management Plan and Smoke Management Plan, in compliance with applicable legislation and consistent with the Air Quality Guidelines for the Protection of Human Health and the Environment (CCME 1998), and the British Columbia Air Quality Objectives and Standards (BC Ministry of Environment 2009). The main purpose of the Air Quality Management Plan and Smoke Management Plan is to mitigate the potential human health effects from a degradation of air quality in the region of Fort St. John, Taylor, Hudson's Hope, Chetwynd and for Aboriginal Groups using areas for traditional purposes close to the construction activities of clearing and burning.	Complete	In Compliance	The Smoke Management Plan and Air Quality Monitoring Program are described in Section 4.1 and Appendix A and B, respectively, of the CEMP. The Smoke Management Plan was updated on September 14, 2021 to reflect regulatory changes. The Air Quality Management Plan was proposed to be revised to address localized concerns with fugitive dust in Hudson's Hope. Following stakeholder consultation, this proposal was submitted to the EAO for approval as of September 24, 2021.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 57	The Air Quality Management Plan and Smoke Management Plan must include at least the following to describe how the EAC Holder: · Identify places of high use by Aboriginal Groups for traditiona purposes and develop mitigation measures if adverse effects are predicted at those locations.	Ongoing	In Compliance	With financial support from BC Hydro, several Indigenous Nations conducted traditional use studies to document Indigenous use of lands and resources in the Site C project area. Study reports identified areas of high use by Indigenous Nations and were submitted to BC Hydro. BC Hydro is monitoring air quality at 5 locations of high use, which includes an additional station that was installed in fall 2020 prior to the start of construction of the Hudson's Hope Berm. The data completeness target of 75% will be maintained through 2021. Data is shared with the BC Ministry of Environment and Climate Change. Section 4.1 of the CEMP requires Contractors to prepare EPPs that include measures to manage emissions and dust from all project activities. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 57	· Measures to manage emissions and dust from all Project activities.	Ongoing	In Compliance	Section 4.1 of the CEMP requires Contractors to prepare EPPs that include measures to manage emissions and dust from all project activities. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 57	· Measures to manage Project effects on air quality associated with concrete production at concrete batch plants.	Ongoing	In Compliance	Section 4.1 of the CEMP requires Contractors to prepare EPPs that include measures to manage emissions and dust from all project activities. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 57	· Control Project-related smoke by following the most current BC Ministry of Environment Open Burning Smoke Control Regulation.	Ongoing	In Compliance	Section 4.1 and Appendix A of the CEMP refer to the requirement to control Project-related smoke in accordance with the BC Ministry of Environment and Climate Change's Open Burning Smoke Control Regulation. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 57	· Measures to retain vegetative barriers, or install temporary barriers, where practical.	Ongoing	In Compliance	Section 4.1 of the CEMP requires Contractors to retain vegetative barriers, or install temporary barriers, where practicable. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 57	· Procedures to provide MOE with data collected during monitoring so that they can notify sensitive populations if air quality thresholds are exceeded.	Complete	In Compliance	A MOU agreement was established between BC Hydro and the Ministry of Environment and Climate Change regarding the housing and publishing of Site C air quality monitoring data on January 7, 2016.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 57	The EAC Holder must monitor air quality associated with shoreline protection works at Hudson's Hope during the construction period and for the first two years of operations.	Ongoing	In Compliance	Shoreline protection works at Hudson's Hope commenced in fall 2020. An air quality monitoring station was installed in Hudson's Hope (at Dudley Drive) in September 2020, prior to the start of this construction. This monitoring will be ongoing during construction and for the first 2 years of reservoir operations.
EAC 57	The EAC Holder must provide these draft Air Quality Management Plan and Smoke Management Plan to MOE, City of Fort St. John, District of Hudson's Hope, Peace River Regional District, District of Taylor, District of Hudson's Hope, District of Chetwynd and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction activities.	Complete	In Compliance	The Smoke Management Plan and Air Quality Monitoring Program are described in Section 4.1 and Appendix A and B, respectively, of the CEMP. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014
EAC 57	The EAC Holder must file the final Air Quality Management Plan and Smoke Management Plan with EAO, MOE, City of Fort St. John, District of Hudson's Hope, Peace River Regional District, District of Taylor, District of Chetwynd and Aboriginal Groups a minimum of 30 days prior to the commencement of construction activities.	Complete	In Compliance	The Smoke Management Plan and Air Quality Monitoring Program are described in Section 4.1 and Appendix A and B, respectively, of the CEMP. The Smoke Management Plan was updated on September 14, 2021 to reflect regulatory changes.
EAC 57	The EAC Holder must develop, implement and adhere to the final Air Quality Management Plan and Smoke Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Appendix A of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
	Noise and Vibration			
EAC 58	The EAC Holder must develop a Noise and Vibration Management Plan to mitigate Project-related noise and vibration effects on human health.	Complete	In Compliance	The Noise and Vibration Management Plan is described in Section 4.11 of the CEMP.
EAC 58	The Noise and Vibration Management Plan must include at least the following: · Program to monitor noise levels associated with construction of Hudson's Hope Shoreline Protection.	Ongoing	In Compliance	The CEMP Section 4.11 describes noise mitigation measures that apply to Hudson's Hope shoreline protection works. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Noise monitoring is conducted in response to complaints, as warranted.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 58	· Implement notification of construction program and Construction Communication Plan for residents in vicinity of Project activities	Ongoing	In compliance	The Site C project team is implementing the Construction Communication Plan and the Aboriginal Group Communication Plans to ensure that residents, stakeholders and Indigenous Nations are provided with advance notification about construction activities. The 2020-2021 Annual Report for the Construction Communications Plan was posted on the Site C website on July 27, 2021. The 2021-2022 Annual Report will be posted in July 2022. Implementation events include: Regional Community Liaison Committee meetings, mail drops, bi-weekly construction updates, First Nations Construction Notification Letter, Stakeholder Construction Notification Letter, Construction Information Sheets posted on the Project website, news releases about key project milestones, site tours, project website, responses to public enquiries, and advertising.
EAC 58	· Retain or erect acoustic barriers, fencing, and vegetative screens as appropriate.	Ongoing	In Compliance	The CEMP Section 4.11 describes the implementation of a noise monitoring program to measure noise levels at sensitive locations near the 85th Avenue Industrial Lands, Highway 29 re-alignment, and Hudson's Hope berm. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 58	· Develop and implement noise monitoring and adaptive management as required.	Ongoing	In Compliance	The CEMP Section 4.11 describes the scheduling of construction activity near homes to reduce periods of disturbance, and the control of construction traffic and deliveries on local roads during night-time hours (22:00-07:00). BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 58	· Mitigate night-time noise (e.g. perimeter berms and acoustic barriers, portable enclosures or barriers to the conveyor hopper, and silent backup alarms)	Ongoing	In Compliance	The CEMP Section 4.11 describes the scheduling of construction activity near homes to reduce periods of disturbance, and the control of construction traffic and deliveries on local roads during night-time hours (22:00-07:00). BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 58	· Monitor noise at 85th Avenue Industrial Lands	Ongoing	In Compliance	The CEMP Section 4.11 describes noise mitigation measures specific to 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Noise monitoring is conducted in response to complaints, as warranted.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 58	· Construct perimeter fencing and retain or plant tree screens at 85th Avenue Industrial Lands	Ongoing	In Compliance	The CEMP Section 4.11 describes noise mitigation measures specific to 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs. Chain-link fencing has been installed around the perimeter of the 85th work area. Berms have also been constructed along the northern and eastern edges (as per Section 6.9.2 of the 85th Ave EPP) to help mitigate noise pollution.
EAC 58	· Design a work and noise management schedule that allows an uninterrupted eight hour sleep schedule	Complete	In Compliance	The Noise Management Plan included within Worker Accommodation design and operations contract is aligned with the CEMP Section 4.11.
EAC 58	· Manage Project construction noise to provide quiet enjoyment to residents, even if it means temporary relocation of residents at the EAC Holder's expense.	Ongoing	In Compliance	The CEMP Section 4.11 describes noise mitigation measures specific to 85th Avenue Industrial Lands. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction.
EAC 58	The EAC Holder must develop, implement and adhere to the final Noise and Vibration Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Section 4.11 of the CEMP requires that Contractor EPPs address this requirement. BC Hydro audits compliance with this requirement by reviewing contractor EPPs and conducting environmental audits during construction to verify implementation of EPPs.
EAC 58	The EAC Holder must provide this draft Noise and Vibration Management Plan to FLNR, District of Hudson's Hope, City of Fort St. John, Peace River Regional District and District of Chetwynd for review a minimum of 90 days prior to the commencement of construction activities.	Complete	In Compliance	The Noise and Vibration Management Plan is described in Section 4.11 of the CEMP. The Draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014
EAC 58	The EAC Holder must file the final Noise and Vibration Management Plan with EAO, FLNR, District of Hudson's Hope, City of Fort St. John, Peace River Regional District and District of Chetwynd a minimum of 30 days prior to the commencement of construction activities.	Complete	In Compliance	The final Noise and Vibration Management Plan is described in Section 4.11 of the CEMP. The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to regulators, regional and local governments and Indigenous Nations in accordance with requirements.
EAC 59	The EAC Holder must outline measures including relocation of affected home-owners, as deemed appropriate in consultation with affected home-owners, to address serious levels of noise or changes in air quality during construction of the Project. The measures would be included in the appropriate plans.	Ongoing	In Compliance	Implementation of the Noise and Vibration and Air Quality Management Plans, including review of EPPs, inspections of mitigation measures, and monitoring, is ongoing. A noise and air quality complaint response process has been developed and is being implemented as per the CEMP

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
	Methylmercury			
EAC 60	The EAC Holder must, in collaboration with the First Nations Health Authority (FNHA), NHA and Aboriginal Groups, develop a Methylmercury Monitoring Plan.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. In 2021, BC Hydro engaged with the FNHA, Northern Health Authority and Indigenous Nations on development of the Methylmercury Monitoring Plan (MMP). This engagement included the sharing of a methylmercury background documents and discussions at environment forums and Site C Methylmercury-subcommittee. Indigenous Nations and health authorities provided input on draft MMP study design during the MMP development, and expressed the importance of communications to support meaningful input by Indigenous Nations. Based on input provided BC Hydro intends to finalize and implement the MMP in 2022 during the river diversion stageof Project construction to collect additional baseline data prior to reservoir filling. Collaboration with the FHNA, NHA and Indigenous Nations is described in the MMP.
EAC 60	The Methylmercury Monitoring Plan must include: Methods for collecting monitoring information must include: · Involving Aboriginal Groups and the FNHA in the design, implementation, management and interpretation and communication of results;	Ongoing	In Compliance	This condition is addressed in the MMP through: 1) Involvement in design of MMP - Section 1.3 (Consultation) and 2) Involvement in the implementation, management and interpretation and communication of results – Section 6.0 (Indigenous Community Sampling Program), Section 7.0 (Fish Consumption Program), and Section 8.0 (Reporting). Future annual MMP reports, commencing 2023, will provide results of monitoring for each scheduled sampling year.
EAC 60	· Use of information regarding consumption of fish by Aboriginal Groups known to consume fish in the methylmercury monitoring study if available, and non-aboriginal harvesters including: o species and size of fish caught for consumption; o location where fish are caught for consumption; o consumption of fish by age group and gender; o fish meal sizes by age group and gender; o fish meal frequency; o parts of fish consumed; o fish preparation methods; and o other relevant consumption information (e.g. events where consumption is higher over a short period of time such as a camping event); and	Ongoing	In Compliance	This condition is addressed in the MMP through: Section 7.0 (Fish Consumption Program) Future annual MMP reports will provide results of monitoring, including collection of baseline fish consumption information in 2022, are expected to be submitted the following year.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 60	· Use of baseline methylmercury levels in representative fish species consumed by Aboriginal Groups and non-aboriginal harvesters.	Ongoing	In Compliance	This condition is addressed in the MMP through Section 5.4 (Fish). Future annual MMP reports will provide results of monitoring, including 2022 collection of baseline methylmercury levels in fish, are expected to be submitted the following year.
EAC 60	Requirements for monitoring the trend and evolution of methylmercury concentrations in fish. Monitoring requirements must include the following: · proposed geographic extent; · proposed monitoring parameters; · proposed monitoring locations; and · proposed monitoring timelines and frequency.	Ongoing	In Compliance	This condition is addressed in the MMP through Section 5.0 (Monitoring Program).
EAC 60	Measures to enable people to limit exposure to methylmercury to avoid risk to human health such as: · a detailed communications strategy developed in consultation with relevant Aboriginal groups and government departments and agencies including consumption advisories or other health related bulletin or information, as may be necessary; and	Ongoing	In Compliance	This condition is addressed in the MMP through Section 9.0 (Health Authority Communications).
EAC 60	· an annual update on the status, results, and trends of methylmercury concentrations in fish and the presence of human health risks associated with the consumption of fish from the affected waterbodies.	Ongoing	In Compliance	This condition is addressed in the MMP through Section 8.0 (Reporting). Future annual MMP reports, commencing 2023, will provide results of monitoring for each scheduled sampling year.
EAC 60	Baseline information must be established prior to any project impacts using a minimum of two years of data and operations phase monitoring will occur each year for the first ten years of operations and every 5 years after until such time as methylmercury levels in fish populations have stabilized.	Ongoing	In Compliance	This condition is addressed in the MMP through Section 5.3 (Temporal Extent & Monitoring Schedule).
EAC 60	The EAC Holder must report on the results to EAO, FNHA and NHA in accordance with the monitoring schedule.	Planning	Future Requirement	This condition is addressed in the MMP through Section 8.0 (Reporting). Future annual MMP reports, commencing 2023, will provide results of monitoring for each scheduled sampling year.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 60	The EAC Holder must provide this draft Methylmercury Monitoring Plan to FNHA and NHA for review a minimum of 90 days prior to the commencement of reservoir filling.	Complete	In Compliance	BC Hydro provided the draft Methylmercury Monitoring Plan to FNHA and NHA for review on May 28, 2021.
EAC 60	The EAC Holder must file the final Methylmercury Monitoring Plan with EAO, FNHA and NHA a minimum of 30 days prior to the commencement of reservoir filling.	Planning	Future Requirement	BC Hydro provided the draft Methylmercury Monitoring Plan toEAO, FNHA and NHA on February 23, 2022.
EAC 60	The EAC Holder must develop, implement and adhere to the final Methylmercury Monitoring Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Based on input provided by Indigenous Nations and Health Authorities, BC Hydro intends to finalize and implement the MMP in 2022 during the river diversion stage of Project construction.
	HERITAGE RESOURCES			
	Visual Resources			
EAC 61	The EAC Holder must develop and implement measures to manage Project effects on visual resources by undertaking the following throughout construction: · Address how to landscape the shoreline protection area in Hudson's Hope to maintain or enhance natural views in collaboration with the District of Hudson's Hope	Ongoing	In Compliance	BC Hydro has completed public consultation on the Hudson's Hope shoreline protection area. BC Hydro will collaborate with the District of Hudson's Hope regarding measures to maintain or enhance visual resources. BC Hydro signed a Partnering Relationship Agreement with the District of Hudson's Hope in January 2017 which addresses how the District and BC Hydro will work together on the measures in their community. BC Hydro has reviewed the design of the shoreline protection berm and the day use area and car-topper boat launch with the District and presented it for feedback at public meetings in 2019.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 61	Set objectives and requirements for exterior designs for Project structures, and landscaping to blend in with the character of the surrounding environment except in accordance with safety objectives.	Ongoing	In Compliance	BC Hydro has included requirement for building designs to blend in with surrounding in architectural contract terms for Project Structures, where feasible.
EAC 61	· Set objectives and requirements for establishing and building workforce accommodation camps on previously disturbed areas or areas generally hidden from key viewpoints.	Complete	In Compliance	The Site C workforce accommodation camp has been sited on a previously disturbed area and is, in general, hidden from key viewpoints.
EAC 61	The EAC Holder must undertake the measures to the satisfaction of EAO.	Ongoing	In Compliance	The implementation of the measures is underway in accordance with this condition.
	Physical Heritage and Cultural Heritage			
EAC 62	The EAC Holder must protect and preserve heritage resources by implementing measures as detailed in a Heritage Resources Management Plan.	Ongoing	In Compliance	The Heritage Resources Management Plan (HRMP) is available on the Project website at: https://www.sitecproject.com/heritage-resources-management-plan. Annual reports for field work completed in 2021 under HCA permits and for paleontological resources will be submitted to regulatory agencies by March 31, 2022.
EAC 62	The Heritage Resources Management Plan must be developed by a QEP.	Complete	In Compliance	Section 10.0 of the HRMP lists the QEPs who prepared the plan.
EAC 62	The Heritage Resources Management Plan must specify a process for the engagement of Aboriginal Groups in planning and follow-up/monitoring activities related to heritage resources as the Project proceeds.	Ongoing	In Compliance	Implementation of this requirement is described in the HRMP and has included: -the opportunity for Indigenous Nations to comment on Heritage Conservation Act permit reports and permit amendments in accordance with the Heritage Conservation Act where the Indigenous Nations is listed in the permit, - Offers to present heritage work results to Indigenous Nations and, -providing archaeological crew field assistant employment opportunities for Indigenous people.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 62	In particular, the Plan must incorporate a process for continued collaboration with Aboriginal Groups on ground-truthing for the identification of any burial sites that the Project may disturb.	Ongoing	In Compliance	Implementation of this requirement is described in the HRMP and has included: -in accordance with the Heritage Conservation Act, Indigenous Nations that may be affected by a permitting decision and who are listed in the permit, are provided a review period of between 15 and 30 days and an opportunity for comment, and -providing archaeological crew field assistant employment opportunities for Indigenous peoples. -providing funding to support additional ground-truthing activities and studies for the identification of potential or confirmed burial sites that may be affected by the Project. - continuing to work with Indigenous Nations to implement appropriate burial management solutions. -developing and seeking input from Indigenous Nations on the addendum to the Project's Heritage Chance Find Procedures (CFPs) outlining a revised procedure to be followed in the event of a chance find of human remains.
EAC 62	The EAC Holder must provide the draft Heritage Resources Management Plan to Archaeology Branch of FLNR and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft HRMP was submitted to the Archaeology Branch of FLNR, and Indigenous Nations on October 17, 2014.
EAC 62	The Heritage Resources Management Plan must include Archaeological Impact Management and Heritage Resources Monitoring and Follow-Up Programs.	Ongoing	In Compliance	Section 6 of the HRMP describes Heritage Resources Impact Management. Management measures implemented to date have included: -inclusion of heritage requirements in contractor EPPs, as applicable to the scope of work covered by the EPP, -undertaking archaeological work for the Heritage Resources Impact Assessment in accordance with the terms and conditions of Heritage Conservation Act Section 12.2 (formerly Section 14) Heritage Inspection permits, and -undertaking any land-altering work in accordance with Heritage Conservation Act Section 12.4 (formerly Section 12) Site Alteration permit.
EAC 62	The field and reporting portions of each program will be of a scope, duration and frequency prescribed by the BC Heritage Conservation Act permits.	Ongoing	In Compliance	Annual reports for field work completed in 2021 under these permits, and for palaeontological resources, will be submitted to regulatory agencies on March 31, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 62	The Archaeology Impact Management Program must be developed by a QEP qualified to hold Section 12.2 (formerly Section 14) Heritage Inspection and Investigation Permits.	Complete	In Compliance	Section 10.0 of the HRMP lists the QEPs who prepared the plan.
EAC 62	The Heritage Resources Monitoring and Follow-Up Program must include at least the following: · Monitor reservoir erosion during occurrences of exposure to assess the impacts on existing or newly identified protected archaeological sites and other heritage resources	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	· Implement mitigation measures, systematic data recovery or emergency salvage operations in accordance with the Heritage Resources Management Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	· Conduct the monitoring of shoreline erosion downstream (for approximately 2 km) as part of chance-find procedures to determine if physical heritage resources are affected by the Project. The EAC Holder must undertake this monitoring for any spills from the Project reservoir for a period of two years following the commencement of reservoir filling and commissioning.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	· Establish a reporting structure for reporting to Aboriginal Groups and the Archaeology Branch beginning 180 days following the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 62	The EAC Holder must file the final Heritage Resources Management Plan with EAO, Archaeology Branch and Aboriginal Groups a minimum of 30 days prior to commencement of construction.	Complete	In Compliance	The final HRMP was submitted to EAO, the Archaeology Branch of FLNR, and Indigenous Nations on June 5, 2015. Revision 3 of the final HRMP was submitted to EAO, the Archaeological Branch of FLNR, and Indigenous Nations on November 19, 2018.
EAC 62	The EAC Holder must develop, implement and adhere to the final Heritage Resources Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Annual reports for field work completed in 2021 under these permits and for paleontological resources will be submitted to regulatory agencies by March 31, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 63	The EAC Holder must manage adverse Project effects on cultural resources by implementing mitigation measures detailed in a Cultural Resources Mitigation Plan.	Ongoing	In Compliance	BC Hydro is engaging Indigenous Nations on the development and implementation of mitigation measures respecting the potential effects of the Project on Indigenous culture and heritage. Results of initiatives conducted under Cultural Resources Mitigation Plan (CRMP) are described in annual reports submitted to the EAO and made available to Indigenous Nations through the Project website. Indigenous Nations are notified of annual reports through the bi-weekly Site C Information Update emails. The 2020-2021 CRMP Annual Report, describing activities from April 2020 to March 2021 was submitted to the EAO on March 31, 2021. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. In April 2017, the Environmental Assessment Office initiated an inspection in response to a complaint from West Moberly First Nations and Prophet River First Nation regarding the effects of the Highway 29 realignment on cultural and heritage resources in the area of Bear Flats (near the confluence of Cache Creek and the Peace River). BC Hydro and the Ministry of Transportation and Infrastructure worked with Indigenous communities and others on the redesign of the Highway 29 realignment at Cache Creek, and undertook consultation on the alternative route options in 2018, supported by a Structured Decision Making Process, to select a route while seeking to avoid or reduce the effects on potential burial sites and sacred places at Cache Creek. In December 2018, BC Hydro provided Indigenous Nations with a draft request to amend the Project's Environmental Assessment Certificate to reflect the revised alignment which was selected through the Structured Decision Making process. A final EAC amendment request was submitted to the Environmental Assessment Office in May 2019. After completion of EAO's consultation on the request, the EAC amendment was issued in December 2019. BC Hydro continues to consult with Indigenous Nations regarding construction plans and support Indigenous Nations in ground truthing of traditional land use areas within the Project activity zone prior to construction. BC Hydro has provided funding to Indigenous Nations for ground truthing through Consultation and Capacity Funding Agreements as well as providing additional funding to Doig River First Nation, Halfway River First Nation, and Blueberry River First Nations for specific cultural investigations.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
				Some Indigenous Nations have confidentially identified cultural sites of concern within or near the project area, and BC Hydro is continuing to engage with these groups around mapping of their cultural interests, exploring potential measures to avoid or mitigation impacts, and how to commemorate the cultural importance of the Peace River Valley. During this reporting period, BC Hydro and the Culture and Heritage Resources Committee have also drafted a Terms of Reference for the Cultural Centre Development Project and has formed a Cultural Centre Working Group to further work collaboratively on cultural resources mitigation through development of the Cultural Centre. Furthermore, BC Hydro is working with individual Nations to prepare for major project milestones and implementing management options to limit adverse Project effects on cultural resources.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 63	The Cultural Resources Mitigation Plan must be developed in collaboration with a Cultural and Heritage Resources Committee (Committee) established by the EAC Holder that includes Aboriginal Groups.	Ongoing	In Compliance	The 2020/2021 CRMP Annual Report, describing activities from April 2020 to March 2021 was submitted to the EAO on March 31, 2021. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022. BC Hydro will update the CRMP as required based on new information, and will continue to implement initiatives described in the plan throughout construction. The CRMP includes formation of a Culture and Heritage Resources Committee. BC Hydro has continued to invite all 13 Indigenous Nations named in the EAC and FDS, and representatives from 11 of the Indigenous Nations have participated actively in the Committee (Doig River, Blueberry River, Halfway River, Dene Tha', Duncan's, Horse Lake First Nation, McLeod Lake Indian Band, Saulteau First Nations, Prophet River First Nation, Métis Nation BC, and Kelly Lake Métis Settlement Society). The Committee has continued to work collaboratively on cultural resources mitigation initiatives, such as identifying measures to commemorate sites that will be lost to inundation, identification and naming of key cultural sites, documenting historical use of the area, including trails, sites, and stories, and discussing and developing an approach to Indigenous cultural awareness and orientation of the workforce. Initiatives completed include a travelling exhibit that is traveling to Indigenous communities, a calendar of community events and commemoration videos on the impacts of Site C from an Indigenous perspective. The Committee also completed a pilot Curation Training Program that supported artifact curation and committee objectives (identification of key cultural sites, documenting historical use, commemoration of sites lost to inundation, cultural awareness) . BCH also anticipates completion of educational signage at the Site C North Bank Viewpoint and community display cases of artifacts that will be housed in communities for the next three years. The Committee has also drafted a Terms of Reference for the Cultural Centre Development Project and has formed a Cultural Centre Working Group to further work collaboratively on cultural resources mitigation through development of the Cultural Centre. The Working group has advanced the initial phase of the project through three Visioning Workshops. The Commitee has also allocated funding from the overall committee budget to support commemoration and cultural activities that will be implemented individually by each of the 13 Indigenous Nations.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 63	The Cultural Resources Mitigation Plan must include consideration of the following elements and/or others that may be recommended by the Committee: · Identification and naming of key cultural sites · Documenting historical use of the area, including trails, sites, and stories. · Commemoration of sites lost to inundation. · Cultural awareness and orientation of workforce. · Support for cultural camps through financial or in-kind support.	Ongoing	In Compliance	The Culture and Heritage Resources Committee has continued to work collaboratively on cultural resources mitigation initiatives, such as identifying measures to commemorate sites that will be lost to inundation, identification and naming of key cultural sites, documenting historical use of the area, including trails, sites, and stories, and discussing and developing an approach to Indigenous cultural awareness and orientation of the workforce. Initiatives completed include a travelling exhibit that is currently traveling to Indigenous communities, a calendar of community events and commemoration videos on the impacts of Site C from an Indigenous perspective. The Committee also completed a pilot Curation Training Program that supported artifact curation and committee objectives (identification of key cultural sites, documenting historical use, commemoration of sites lost to inundation, cultural awareness). BCH also anticipates completion of educational signage at the Site C North Bank Viewpoint and community display cases of artifacts that will be housed in communities for the next three years. The Committee has also drafted a Terms of Reference for the Cultural Centre Development Project and has formed a Cultural Centre Working Group to further work collaboratively on cultural resources mitigation through development of the Cultural Centre. The Working group has advanced the initial phase of the project through three Visioning Workshops. The Commitee has also allocated funding from the overall committee budget to support commemoration and cultural activities that will be implemented individually by each Indigenous group. In early 2017, BC Hydro secured a facilitator in an effort to make Committee meetings more effective. The facilitator facilitated three Committee meetings and three Cultural Centre Working Group meetings during this reporting period and improved meetings by focusing on specific projects and initiatives. A consulting design and architectural team, project manager and researcher have participated in Committee meetings to engage Committee members and advance initiatives through the Committee's input and guidance. The Committee continues to meet as a whole and intends to shift to annual meetings with monthly Cultural Centre Working Group meetings in the coming year, in order to discuss cultural resources mitigations through development of the Cultural Centre Project.
EAC 63	The EAC Holder must provide the draft Cultural Resources Mitigation Plan to the Committee for review a minimum 90 days prior to the commencement of construction.	Complete	In Compliance	The draft Cultural Resources Mitigation Plan was submitted to Indigenous Nations on October 17, 2014.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 63	The EAC Holder must file the final Cultural Resources Mitigation Plan with EAO and the Committee a minimum of 30 days prior to the commencement of construction.	Complete	In Compliance	The final Cultural Resources Mitigation Plan was submitted to Indigenous Nations on June 5, 2015. Revision 3 of the final CRMP was submitted to EAO and the Committee November 19, 2018.
EAC 63	The EAC Holder must develop, implement and adhere to the final Cultural Resources Mitigation Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Results of initiatives conducted under Cultural Resources Mitigation Plan are described in annual reports submitted to the EAO and made available to Indigenous Nations through the Project website. Indigenous Nations are notified of annual reports through the bi-weekly Site C Information Update emails. The 2020-2021 CRMP Annual Report, describing activities from April 2020 to March 2021 was submitted to the EAO on March 31, 2021. The 2021-2022 Annual Report will describe activities from April 2021 to March 2022.
EAC 64	The EAC Holder must provide a total of $100,000 to local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to be used for buildings to house them.	Ongoing	In Compliance	BC Hydro will fund local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to be used for buildings to house them. No funding was provided in the current reporting period; a portion of the total funding was provided in previous reporting periods.
EAC 64	These funds must be provided only to facilities that agree to work with interested Aboriginal Groups on the display and curation of those artefacts.	Ongoing	In Compliance	BC Hydro will fund local accredited facilities in close proximity to the Project, prior to the start of operations, to curate and display the recovered resources and the funding is not to be used for buildings to house them. No funding was provided in the current reporting period; a portion of the total funding was provided in previous reporting periods.
	ENVIRONMENT PROTECTION AND MANAGEMENT			
	Greenhouse Gas Emissions			
EAC 65	The EAC Holder must monitor the levels of Greenhouse Gas (GHG) emissions resulting from the Project as detailed in a Greenhouse Gases Monitoring and Follow-Up Program to confirm predictions of the GHG model.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will submit a draft and final Greenhouse Gases Monitoring and Follow-Up Program to regulatory agencies and Environment Canada within 90 day, and 150 days, respectively, after the commencement of operations.
EAC 65	The Program must include at least the following: · Protocols for monitoring GHG emissions from Site C reservoir for the first 10 years of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	· Protocols for monitoring and reporting GHG emissions during operation and maintenance activities.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 65	· A reporting structure for reporting results at least annually during the monitoring and follow-up program period, beginning 180 days following commencement of operations, to MOE and Environment Canada.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	The EAC Holder must develop, implement and adhere to the final Greenhouse Gases Monitoring and Follow-Up Program, and any amendments, to the satisfaction of EAO.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	The EAC Holder must provide this draft Greenhouse Gases Monitoring and Follow-Up Program to MOE and Environment Canada for review within 90 days after the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 65	The EAC Holder must file the final Greenhouse Gases Monitoring and Follow-Up Program with EAO, MOE and Environment Canada within 150 days after the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
	ENVIRONMENTAL MANAGEMENT PLANS, FOLLOW-UP AND MONITORING			
EAC 66	The EAC Holder must clearly document its roles and responsibilities for monitoring and reporting employee and contractor performance and compliance with the EAC and its conditions in an Environmental Oversight Program.	Complete	In Compliance	Environmental Management Roles and Responsibilities are described in Section 2.0 of the CEMP.
EAC 66	The Environmental Oversight Program must include requirements for investigating and reporting non-compliance with the EAC and any management plans, ensuring corrective actions are implemented, and requirements for reviewing and updating the Construction Environmental Management Plans and Operations Environmental Management Plans to ensure that they remain relevant and current.	Ongoing	In compliance	The BC Hydro environmental team onsite inspects and audits against the various environmental documentation and commitments. Contractors and BC Hydro keep a non-compliance report tracking program and share the information to ensure the identified items are acted upon. To facilitate timely corrective action, BC Hydro ensures Non-compliance Reports are specific, actionable with accountable individuals assigned and a due date which is timely but able to be met. If BC Hydro or the IEM identify a non-compliance, contractors are required to investigate, document and rectify the non-compliance, keeping BC Hydro involvement to an inspection, audit, and oversight role. In 2021, BC Hydro inspectors checked for compliance with individual contractor EPP commitments 42,651 times.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 66	The EAC Holder must submit the draft Environmental Oversight Program to EAO 90 days prior to commencing construction.	Complete	In Compliance	The draft CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014.
EAC 66	The EAC Holder must submit the final Environmental Oversight Program to EAO 30 days prior to commencing construction.	Complete	In Compliance	The final CEMP was submitted to regulatory agencies, governments, and Indigenous Nations on June 5, 2015. Revision 2 of the CEMP was issued in February 2016, Revision 4 in July 2016 (Revision 3 was not formally published), Revision 5.1 in May 2019, Revision 6 in July 2019, Revision 6.1 in December 2019 and Revision 7 in September 2020.
EAC 66	The EAC Holder must develop, implement and adhere to the final Environmental Oversight Program, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	The BC Hydro environmental team onsite inspects and audits against the various environmental documentation and commitments. Contractors and BC Hydro keep a non-compliance report tracking program and share the information to ensure the identified items are acted upon. To facilitate timely corrective action, BC Hydro ensures Non-compliance Reports are specific, actionable with accountable individuals assigned and a due date which is timely but able to be met. If BC Hydro or the IEM identify a non-compliance, contractors are required to investigate, document and rectify the non-compliance, keeping BC Hydro involvement to an inspection, audit, and oversight role. In 2021, BC Hydro inspectors checked for compliance with individual contractor EPP commitments 42,651 times.
EAC 67	The EAC Holder must appoint an IEM acceptable to EAO, at least three months prior to construction.	Complete	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015.
EAC 67	The IEM will be responsible for monitoring the course of construction of the Project as directed by EAO.	Complete	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.
EAC 67	The IEM must audit any incident reports as well as EAC Holder responses to the EAC Holder's Environmental Monitor's findings and recommendations (Reports) must be filed with FLNR and EAO within 30 days of request.	Complete	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.
EAC 67	These Reports must be developed and reported to the satisfaction of EAO.	Complete	In Compliance	BC Hydro retained Environmental Dynamics Inc. as the Independent Environmental Monitor for the Project on January 13, 2015. EAO approved this on May 7, 2015. EDI provides a weekly environmental monitoring report to BC Hydro and regulators.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 68	The EAC Holder must manage worker and public safety throughout the construction phase by implementing measures detailed in a Construction Safety Management Plan that complies with all applicable requirements of statutes, permits, approvals, and authorizations as outlined in Section 35 of the EIS.	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement, and - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the main Prime contractors retain independent third party auditors to conduct safety audits on an annual basis. BC Hydro has obtained a third party auditor to ensure compliance to Prime Contractor requirements.
EAC 68	The Construction Safety Management Plan must be developed by a QEP.	Complete	In Compliance	Section 6.0 of the CSMP lists the QPs who prepared the plan.
EAC 68	The Construction Safety Management Plan must include the following component plans: · Fire Hazard and Abatement Plan;	Ongoing	In Compliance	The Fire Hazard and Abatement plan is described in Section 5.2 of the CSMP. Fire abatement practices are part of everyday work. The BC Hydro Fire Marshall has been actively engaged in fire management planning and fire code review in each phase of construction and site services. The Fire Marshall and/or her representative has been actively engaged in Fire audit work at Site C. Fire Marshall recommendations have formed the basis of corrective action plans to the satisfaction of the Fire Marshall. Fire systems tests have been ongoing at the worker accommodation camp since it opened. Additionally, the Safety department has engaged a Safety Engineer who has responsibilities for reviewing all Fire Safety Plans.
EAC 68	· Public Safety Management Plan;	Ongoing	In Compliance	Section 5.3 of the CSMP describes the Public Safety Management Plan as well as planning for future aspects of the project. The Public Safety Management Plan, developed by a QEP, is described in Section 5.3 of the CSMP. The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively. Revision 2 of the CSMP was issued on March 9, 2022. A status update on Condition 37 requirements is provided below. See comments for EAC condition 38. BC Hydro has obtained the services of a third party contractor to assist with implementation and monitoring of Public Safety Management Plans as river diversion and other activities draw closer. The third party vendor has reviewed Public Safety again since diversion. BC Hydro is in the process of implementing the recommendations.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 68	· Traffic Management Plan; and	Ongoing	In Compliance	The Traffic Management Plan is contained in Section 5.4 of the CSMP. The Traffic Management Plan applies to the dam site, other work sites that will be influenced by Project-related traffic including, but not limited to, public roads in the Peace River Regional District, Wuthrich Quarry, West Pine Quarry, Highway 29, Hudson's Hope Shoreline Protection, Petroleum Development Roads, Project Access Roads, Jackfish Lane Road, Highway 97 and the transport of extraordinary loads.
EAC 68	· Worker Safety and Health Management Plan;	Ongoing	In Compliance	The Worker Safety and Health Management Plan is contained in CSMP Section 5.5 and its sub-sections. BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement , and - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis. This condition is being met by BC Hydro. The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively.
EAC 68	Each component plan in addition to plan specific conditions in this document must include the following: · Clear statement of Objectives;	Ongoing	In Compliance	The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively. Revision 2 of the CSMP was issued on March 9, 2022. The CSMP contains a clear statement of objectives.
EAC 68	· Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors;	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and exploring opportunities for improvement •conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis. This condition is being met by BC Hydro. The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 68	· Clear documentation of all measures to be implemented and actions to be taken to mitigate potential effects and safety hazards;	Ongoing	In Compliance	Unexpected hazards encountered during construction are communicated to all contractors. This is accomplished through Site Wide Notices or special meetings.
EAC 68	· Description of worker qualifications and training requirements pertaining to the Construction Safety Management Plan;	Ongoing	In Compliance	CSMP requires that workers are appropriately qualified. The audit cycle ensures that this takes place, and WorkSafe BC also audits for compliance with worker qualifications. Requirements for safety training, orientation, training and tailboard meetings are also discussed in Section 3 of the CSMP. BC Hydro and Work Safe BC also audit for compliance with worker qualifications.
EAC 68	· Description of reporting requirements; and	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety, performance and exploring opportunities for improvement, and - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the Prime contractors retain independent third party auditors to conduct safety audits on an annual basis. The draft and final CSMPs were submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014 and June 5, 2015, respectively. Revision 2 of the CSMP was issued on March 9, 2022. Reporting requirements are being met by: BC Hydro's Incident Management System reporting, weekly reports on upcoming work to WorkSafe BC, and various weekly reports on safety including statistics, monthly business reviews on safety, reviews of incidents and investigations.
EAC 68	· Process for revising and updating the Construction Safety Management Plan.	Ongoing	In Compliance	The CSMP is updated as needed and if conditions on site change.
EAC 68	The EAC Holder must provide the draft Construction Safety Management Plan to regulatory agencies, Peace River Regional District, City of Fort St. John and the District of Hudson's Hope and Aboriginal Groups for review 90 days prior to commencement of construction.	Complete	In Compliance	The draft CSMP was submitted to regulatory agencies, governments, and Indigenous Nations on October 17, 2014.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 68	The EAC Holder must file the final Construction Safety Management Plan with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John and District of Hudson's Hope and Aboriginal Groups 30 days prior to commencement of construction.	Complete	In Compliance	The final CSMP was submitted to regulatory agencies, governments, and Indigenous Nations on June 5, 2015. Revision 2 of the CSMP was issued March 9, 2022.
EAC 68	The EAC Holder must develop, implement and adhere to the final Construction Safety Management Plan, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	BC Hydro is auditing the implementation of measures in the CSMP by: - reviewing Safety Management Plans /Public Safety Management Plans submitted by the contractors, - holding regular meetings with the contractors to discuss safety performance and explore opportunities for improvement, and - conducting safety audits during construction to verify that requirements of the Plan are being considered and implemented as required. BC Hydro has also required that the MCW contractor retain independent third party auditors to conduct safety audits on an annual basis.
EAC 69	The EAC Holder must manage effective environmental protection and management throughout the construction phase by implementing measures detailed in a Construction Environmental Management Plan (CEMP).	Ongoing	In Compliance	BC Hydro is auditing those measures of the CEMP by: - reviewing EPPs submitted by contractors, - conducting environmental inspections during construction to verify that requirements of the Plan are being considered and implemented as required, and - responding to issues identified by the IEM in their weekly inspection reports.
EAC 69	The CEMP must be developed by a QEP.	Complete	In Compliance	Section 6.0 of the CEMP lists the QPs who prepared the plan.
EAC 69	The CEMP must provide details on how potential adverse effects will be avoided, mitigated, or compensated.	Complete	In Compliance	The CEMP provides details on how potential adverse effects will be avoided, mitigated, or compensated.
EAC 69	The CEMP must include the following: · Acid Rock Drainage and Metal Leachate Management Plan;	Complete	In Compliance	Appendix E of the CEMP contains the Acid Rock Drainage and Metal Leachate Management Plan.
EAC 69	· Air Quality Management Plan;	Complete	In Compliance	Air Quaity Management is described in Section 4.1and Appendix B of the CEMP.
EAC 69	· Blasting Management Plan;	Complete	In Compliance	Blasting Management is described in Section 4.2 of the CEMP
EAC 69	· Contaminated Sites Management Plan;	Complete	In Compliance	Contaminated Sites Management is described in Section 4.3 of the CEMP.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 69	· Erosion Prevention and Sediment Control Plan;	Complete	In Compliance	Erosion Prevention and Sediment Control Management is described in Section 4.4, Appendix I, and Appendix J of the CEMP.
EAC 69	· Fisheries and Aquatic Habitat Management Plan;	Complete	In Compliance	The Fisheries and Aquatic Habitat Management Plan is described in Section 4.5 of the CEMP.
EAC 69	· Fuel Handling and Storage Management Plan;	Complete	In Compliance	Fuel Handling and Storage Management is described in Section 4.6 of the CEMP.
EAC 69	· Groundwater Protection Plan;	Complete	In Compliance	Groundwater Protection is described in Section 4.7 of the CEMP.
EAC 69	· Hazardous Waste Management Plan;	Complete	In Compliance	Hazardous Wastes Management is described in Section 4.8 of the CEMP.
EAC 69	· Heritage Resources Management Plan;	Complete	In Compliance	Heritage Resource Management is described in Section 4.9 of the CEMP.
EAC 69	· Ice Management Plan;	Complete	In Compliance	Ice Management is described in Section 4.10 of the CEMP. BC Hydro will retain a QP to develop and implement a Head Pond Ice Monitoring Plan for the Stage 2 diversion stage of construction.
EAC 69	· Noise and Vibration Management Plan;	Complete	In Compliance	Noise and Vibration Management is described in Section 4.11 of the CEMP.
EAC 69	· Smoke Management Plan;	Complete	In Compliance	Appendix A of the CEMP contains the Smoke Management Plan (SMP). Revision 5 of the SMP was published September 14, 2021.
EAC 69	· Soil Management, Site Restoration, and Revegetation Plan;	Complete	In Compliance	Appendix H of the CEMP contains the Soil Management, Site Restoration, and Revegetation Plan.
EAC 69	· Spill Prevention and Response Plan;	Complete	In Compliance	Spill Prevention and Response is described in Section 4.13 of the CEMP.
EAC 69	· Surface Water Quality Management Plan;	Complete	In Compliance	Surface Water Quality Management is described in Section 4.14 of the CEMP.
EAC 69	· Vegetation and Invasive Plant Management Plan;	Complete	In Compliance	Appendix K of the CEMP contains the Vegetation and Invasive Plant Management Plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 69	· Waste Management Plan; and	Complete	In Compliance	The Waste Management Plan is described in Section 4.16 of the CEMP.
EAC 69	· Wildlife Management Plan.	Complete	In Compliance	The Wildlife Management Plan is described in Sections 3.0 and 4.17 of the CEMP and Section 8.6.2 of the Vegetation and Wildlife Mitigation and Monitoring Plan(VWMMP).
EAC 69	· Process for revising and updating the CEMP.	Complete	In Compliance	The process for revising and updating the CEMP is described in Section 2.6 of the CEMP.
EAC 69	The CEMP is to be prepared by BC Hydro.	Complete	In Compliance	Section 2.0 of the CEMP contains the requirement for BC Hydro to develop and maintain the CEMP.
EAC 69	Detailed Environmental Protection Plans will be developed which must include the following: · Clear statement of objectives; · Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors; · Clean documentation of applicable legislative requirements that must be adhered to, as well as BC Hydro policies, guidelines and other best management practices that will be followed; · Clear documentation of measures to be implemented and actions to be taken to mitigate or compensate potential effects; · Description of worker qualifications and training requirements pertaining to each of the plans associated with the Constructive Environmental Management Plan; and · Description of Monitoring and Reporting Requirements.	Ongoing	In Compliance	Environmental Protection Plan requirements are detailed in Section 2.4 of the CEMP. BC Hydro audits compliance with this requirement by reviewing contractor EPPs.
EAC 69	The EAC Holder must provide the draft CEMP to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction.	Complete	In Compliance	The draft CEMP was provided to regulatory agencies, governments and Indigenous Nations on October 17, 2014. U

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 69	The EAC Holder must file the CEMP with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups 30 days prior to the commencement of construction.	Complete	In Compliance	The final (Revision 1) of the CEMP was provided to regulatory agencies, governments and Indigenous Nations on June 5, 2015. Updates to the CEMP are ongoing and provided to regulators, regional and local governments and Indigenous Nations in accordance with requirements.
EAC 69	The EAC Holder must develop, implement and adhere to the CEMP, and any amendments, to the satisfaction of EAO.	Ongoing	In compliance	Section 2.0 of the CEMP contains the requirements for BC Hydro to develop and maintain the CEMP and to review contractor EPPs to ensure they meet CEMP requirements. BC Hydro audits compliance with CEMP requirements by conducting environmental inspections during construction to verify implementation of contractor EPPs.
EAC 70	The EAC Holder must manage Project effects through construction and operations by implementing measures detailed in mitigation and monitoring plans.	Ongoing	In compliance	BC is implementing mitigaiton measures as outlined in the mitigaiton and monitoring plans developed to date, as required by the EAC.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 70	Each mitigation and monitoring plan in addition to plan specific conditions in this document must include the following: · Plan objectives; · Plan scope; · Mitigation plan details (including details of any sub-components), including a summary of potential Project effects and baseline conditions relevant to the plan and any sub-components, a schedule and a spatial description of the plan area; · Monitoring plan details, where monitoring is required, including parameters to be monitored or measured, a schedule (including frequency and duration), a spatial description of monitoring plan area or sampling locations; and · Description of plan reporting requirements.	Ongoing	In compliance	Final mitigation plans have been submitted to the EAO in accordance with the requirements of the EAC. These plans address the content requirements set out by the EAC. Plans submitted to date are as follows: - Aboriginal Plant Use Mitigation Plan - Aboriginal Training and Inclusion Plan - Agricultural Monitoring and Follow-up Program - Agricultural Mitigation and Compensation Plan Framework - Business Participation Plan - Construction Environmental Management Plan (Rev 4) - Construction Safety Management Plan (Rev 2) - Cultural Resources Mitigation Plan - Del Rio Pit Development Plan - Emergency Services Plan - Fisheries and Aquatic Habitat Management Plan - Fisheries and Aquatic Habitat Monitoring and Follow-up Program - Healthcare Services Plan - Heritage Resources Management Plan - Housing Plan and Housing Monitoring and Follow-up Program (Rev2) - Impervious Core Materials Source Development Plan (85th Ave Industrial Lands Detailed Operations Plan) - Labour and Training Plan - Outdoor Recreation Mitigation Program -Portage Mountain Development Plan - Recreation Program - Vegetation Wildlife Mitigation and Monitoring Plan - Vegetation Clearing and Debris Removal Plan - West Pine Quarry Development Plan; and - Wuthrich Quarry Development Plan
EAC 71	The EAC Holder must manage environmental protection and management by implementing measures in the following Development Plans: · Del Rio Pit Development Plan;	Ongoing	In compliance	The draft and final Development Plans for Del Rio Pit were submitted to regulatory agencies, governments and Indigenous Nations on April 7, 2015 and June 5, 2015, respectively. The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate). To date, no activities have taken place at Del Rio Pit.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 71	· Impervious Core Materials Source Development Plan;	Ongoing	In compliance	The draft and final Impervious Core Materials Source Development Plan (Detailed Operations Plan for 85th Avenue Industrial Lands) were submitted to regulatory agencies, governments and Indigenous Nations on September 21, 2016 and November 22, 2016, respectively. The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy as appropriate.
EAC 71	· Portage Mountain Quarry Development Plan; and	Ongoing	In compliance	The draft and final Portage Mountain Quarry Development Plan were submitted to regulatory agencies, governments and Indigenous Nations on May 4, 2019 and July 10, 2019 respectively. (No changes were made from the draft to the final plan). The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy as appropriate.
EAC 71	· Wuthrich Quarry Development Plan.	Ongoing	In compliance	The plan sets out the plan purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate).
EAC 71	Each Development Plan will include the following: · Plan purpose; · Plan scope; · Plan details; · Summary of safety and environmental management; and · Site reclamation strategy.	Ongoing	In compliance	All Development Plans submitted to date describe the purpose, scope, details, safety and environmental management, and site reclamation strategy (as appropriate).
EAC 71	The EAC Holder must provide the draft Development Plans to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of construction activities that require an applicable Development Plan.	Complete	In Compliance	The draft Development Plans for Del Rio Pit, Impervious Core Materials Source (85th Avenue Industrial Lands), and Wuthrich Quarry, were submitted to regulatory agencies, governments and Indigenous Nations on April 7, 2015, September 21, 2016 and April 7, 2015, respectively.
EAC 71	The EAC Holder must file the Final Development Plans with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups 30 days prior to the commencement of construction activities that require an applicable Plan.	Complete	In Compliance	The final Development Plans for Del Rio Pit, Impervious Core Materials Source (85th Avenue Industrial Lands), and Wuthrich Quarry, were submitted to regulatory agencies, governments and Indigenous Nations on June 5, 2015, November 22, 2016 and June 5, 2015, respectively.
EAC 71	The EAC Holder must develop, implement and adhere to the Final Development Plans, and any amendments, to the satisfaction of EAO.	Ongoing	In Compliance	Works at quarries are conducted in accordance with the Final Development Plans . The 2021 Annual Summary Reports for quarries will be submitted to regulatory agencies and Indigenous Nations by March 31, 2022.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 72	The EAC Holder must manage effective communications for the Project by implementing measures in communication plans and a business participation plan.	Ongoing	In compliance	BC Hydro is meeting this condition (see also Condition 58). The Site C project team is implementing the Construction Communication Plan and Aboriginal Group Communication Plans to ensure that residents, stakeholders and Indigenous Nations are provided with advance notification about construction. The Site C project team is implementing the Business Participation Plan to keep businesses informed and updated on the opportunities associated with the construction of the Project. Examples of implementation measure include: mail drops and letters, construction updates and bulletins, presentations, Indigenous construction notification letters and updates to the project website. Other tactics also being used to provide construction related and business opportunity information include Council Presentations, Regional Community Liaison Committees, presentations to stakeholders, government relations and property owner liaison.
EAC 72	The following communication and participation plans are to be developed and implemented: · Business Participation Plan;	Ongoing	In compliance	The response to Condition 58 and the response to Condition 72 describe compliance with the Business Participation Plan.
EAC 72	· Construction Communication Plan; and	Ongoing	In compliance	See response to Condition 27 (Aboriginal construction communications) and Condition 72.
EAC 72	· First Nations Communication Plan.	Ongoing	In compliance	Condition 27 describes compliance with the Aboriginal Group Communications Plan.
EAC 72	Each plan in addition to plan specific conditions identified in this document will include: · Clear Statement of Objectives; · Audiences; · Key activities and tools; and · Annual summary reporting.	Ongoing	In compliance	Condition 27 describes compliance with the Aboriginal Group Communications Plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 73	The EAC Holder must manage worker and public safety throughout the operations phase by implementing measures detailed in an Operations Safety Management Plan that complies with all applicable requirements of statutes, permits, approvals, and authorizations as outlined in Section 35 of the EIS.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition. BC Hydro will submit a draft Operations Safety Management Plan, developed by a QEP, to regulatory agencies, governments and Indigenous Nations, a minimum of 90 days and 30 days, respectively, prior to the commencement of operations.
EAC 73	The Operations Safety Management Plan must be developed by a QEP.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The Operations Safety Management Plan must include the following component plans: · Public Safety Management Plan (including the Reservoir Shoreline Monitoring and Management Plan); and	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Worker Safety and Health Management Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	Each component plan must include the following: · Clear Statement of Objectives;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Description of potential Project effects and safety hazards, through consideration of baseline conditions and sensitive receptors;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Clear documentation of all applicable legislative requirements that must be adhered to, as well as BC Hydro policies, guidelines and other best management practices that will be followed;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Clear documentation of compliance and effectiveness monitoring to be undertaken;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Description of worker qualifications and training requirements pertaining to the Plan(s);	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Description of reporting requirements; and	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	· Process for revising and updating the Operations Safety Management Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 73	The EAC Holder must provide this draft Operations Safety Management Plan, including all component plans, to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The EAC Holder must file the final Operations Safety Management Plan, including component plans with EAO, regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups a minimum of 30 days prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 73	The EAC Holder must develop, implement and adhere to the final Operations Safety Management Plan, and any amendments, to the satisfaction of EAO.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must manage to ensure effective environmental protection and management throughout the operations phase by implementing measures detailed in an Operations Environmental Management Plan (OEMP).	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The OEMP must be developed by a QEP.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The OEMP must include the following plans: · Hazardous Waste Management Plan;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Ice Management Plan;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Vegetation and Invasive Plant Management;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Waste Management Plan (including Materials Management); and	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Water Management Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 74	Each plan must include the following: · A Clear Statement of Objectives;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Description of potential Project effects, through consideration of baseline conditions and sensitive receptors;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Clear documentation of all applicable legislative requirements that must be adhered to, as well as BC Hydro policies, guidelines and other best management practices that will be followed;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Clear documentation of compliance and effectiveness monitoring to be undertaken;	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Description of reporting requirements; and	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	· Process for revising and updating the Plan.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must provide this draft OEMP, including all plans, to regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups for review a minimum of 90 days prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must file the final OEMP, with regulatory agencies, Peace River Regional District, City of Fort St. John, District of Hudson's Hope and Aboriginal Groups a minimum of 30 days prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 74	The EAC Holder must develop, implement and adhere to the final OEMP, and any amendments, to the satisfaction of EAO.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 75	The EAC Holder must provide its on-site project employees, contractors and sub-contractors, prior to those employees, contractors and sub-contractors starting work, with briefings on and copies of Schedule B (Table of Conditions) of the EAC and all Environmental and Safety Management Plans identified in Schedule B that are relevant to their works.	Ongoing	In Compliance	Prior to the start of field activities, Field Crew Supervisors, QEPs and Environmental Monitors attend an environmental overview and training workshop, where they review EAC and all Environmental and Safety Management Plans identified in Schedule B that are relevant to works.
	DAM SAFETY			
EAC 76	The EAC Holder must conduct an assessment of the impacts of a multiple cascading dam breach, in accordance with the Canadian Dam Association Guidelines and BC Hydro's Dam Safety Program,	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 76	and share the results of that study with the Government of Alberta, FLNR and the authorities of the towns that would be affected, prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 77	The EAC Holder must consult with the Government of Alberta and emergency management officials in Alberta, and FLNR on communication and contingency plans to address the potential occurrences of a multiple cascading dam breach, prior to the commencement of operations.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
	WEST PINE HAUL ROUTE			
EAC 78	The Holder must develop a West Pine Haul Route Traffic Management Plan (the "Plan") regarding use of the West Pine Haul Route by the Holder. The West Pine Haul Route (see Appendix A of this Order) comprises Highway 97 to Chetwynd, Highway 29 through Hudson's Hope to the Highway 29 realignment sites.	Complete	In Compliance	BC Hydro acknowledges and understands this condition. BC Hydro developed the West Pine Haul Route Traffic Management Plan in consultation with affected communities in 2019. Requirement for West Pine Quarry Material was not realized in 2019. Construction in 2020 will require material from West Pine Quarry and BC Hydro intends to comply with this condition

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 78	The Plan must be developed in consultation with Saulteau First Nations, West Moberly First Nations, the District of Hudson's Hope, the District of Chetwynd, and the Peace River Regional District (the "Affected Communities") and the Ministry of Transportation and Infrastructure (MOTI)	Complete	In Compliance	BC Hydro acknowledges and understands this condition. BC Hydro developed the West Pine Haul Route Traffic Management Plan in consultation with affected communities in 2019. The final plan, dated April 2019, is posted to the Project website. Material for the construction of Highway 29 realignment segments was not required in 2021.
EAC 78	The Plan must be developed to the satisfaction of the EAO and include at least the following: a)Identify potential adverse effects related to traffic along the West Pine Haul Route and measures to mitigate those effects of West Pine Quarry haul truck traffic on the West Pine Haul Route, including identification of locations to monitor haul truck traffic counts and the means by which the Holder will conduct monitoring for haul truck traffic counts;	Complete	In Compliance	Section 3 of the West Pine Haul Route Traffic Management Plan describes the Mobility and Safety and Mobility impacts and mitigation measures of the haul route. Section 4 of the Management Plan describes potential community impacts and mitigation measures.
EAC 78	b) The means by which the Holder will identify additional mitigation measures if the measures referred to in paragraph (a) are not sufficient to mitigate the effects identified in paragraph (a);	Complete	In Compliance	Section 3 of the West Pine Haul Route Traffic Management Plan describes the Mobility and Safety and Mobility impacts and mitigation measures of the haul route. Section 4 of the Management Plan describes potential community impacts and mitigation measures.
EAC 78	c) The means by which the Holder will provide, at a minimum, monthly updates to the Affected Communities regarding the Holder's use of the West Pine Haul Route;	Complete	In Compliance	Section 5 of the West Pine Haul Route Traffic Management Plan describes how monthly updates regarding the use of the haul route will be provided to Affected Communities.
EAC 78	d) A process for communication and data sharing that must occur, at minimum, on a monthly basis with the Ministry of Transportation and Infrastructure; and	Complete	In Compliance	Section 5 of the West Pine Haul Route Traffic Management Plan describes how communication and data sharing will occur during use of the haul route.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 78	e) Data referred to in d), at a minimum, must include records of the location of traffic accidents, the location of any traffic related fatalities, complaints received from the public, and wildlife mortality attributable to the Holder's use of the West Pine Haul Route.	Complete	In Compliance	Section 5 of the West Pine Haul Route Traffic Management Plan describes how communication and data sharing will occur during use of the haul route.
EAC 78	3. The Holder must provide this Plan to the EAO, the Affected Communities, and MOTI a minimum of 30 days prior to the planned commencement of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling.	Complete	In Compliance	BC Hydro provided the West Pine Haul Route Traffic Management to Affected Communities and MOTI on April 17, 2019. No material from West Pine was used for Highway 29 realignment works was used in 2019. The route is planned to be used in 2020.
EAC 78	The EAO may, within 30 days of receiving the Plan, advise that: a) The Holder may proceed to implement the Plan with or without revisions; or b) A revised Plan, must be provided for approval of the EAO prior to commencement of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling. If the EAO advises that pursuant to paragraphs 3 (a) or (b) changes are required to the Plan, then the Holder must follow the instructions of the EAO in that regard.	Complete	In Compliance	BC Hydro understands and acknowledges this condition. EAO did not provide any comments on the plan.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 78	4. At the time of submitting the Plan to the EAO, the Holder must also provide the EAO a consultation report setting out the following: a) A list of the invitees and an example of the invitation sent to the Affected Communities and MOTI to participate and provide their views including the timeframe for providing such views, on the Plan; and b) How the views and information provided by the Affected Communities and MOTI to the Holder have been considered and addressed in the Plan; or c) Why such views and information have not been addressed in the Plan.	Complete	In Compliance	BC Hydro provided the West Pine Haul Route Traffic Management to Affected Communities and MOTI on April 17, 2019, along with a description of the consultation with Affected Communities and MOTI that took place during development of the plan.
EAC 78	5. The Holder must: a) Maintain a record of the consultation referred to in paragraphs 1 and 3 and the comments provided by the Affected Communities, MOTI and the EAO under paragraph 3, above; and	Complete	In Compliance	BC Hydro provided the West Pine Haul Route Traffic Management to Affected Communities and MOTI on April 17, 2019, along with a description of the consultation with Affected Communities and MOTI that took place during development of the plan.
EAC 78	b) Provide a copy of the consultation report, required under paragraph 4 of this condition, to the EAO, the Affected Communities, MOTI, or all three parties, within 15 days of the Holder receiving a written request from the EAO, an Affected Community, or MOTI.	Complete	In Compliance	BC Hydro provided the West Pine Haul Route Traffic Management to Affected Communities and MOTI on April 17, 2019, along with a description of the consultation with Affected Communities and MOTI that took place during development of the plan.
EAC 78	The Plan, and any amendments thereto, must be implemented to the satisfaction of the EAO throughout the duration of use of the West Pine Haul Route for the purposes of transporting materials from the West Pine Quarry to Highway 29 realignment segments, Shoreline Protection sites in Hudson's Hope, and areas of the reservoir requiring protection during reservoir filling.	Ongoing	In Compliance	BC Hydro acknowledges and understands this condition. The haul route plan will be updated as required during construction of the Highway 29 realignment segments.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
	HIGHWAY 29 REALIGNMENT - CACHE CREEK SEGMENT, NOISE MONITORING AND MITIGATION			
EAC 79	The Holder must retain a Qualified Professional to develop a noise monitoring plan to assess potential vehicle traffic noise impacts from the Highway 29 realignment at Cache Creek to the sweat lodge (the receiver location) identified in the application to amend the Certificate.	Complete	In Compliance	BC Hydro has retained RWDI Consultants to provide QP support on noise monitoring at the Cache Creek location.
EAC 79	c)The Holder must retain a Qualified Professional to develop a report and provide it to the EAO, West Moberly First Nations no later than 90 days after Highway 29 has been operating in its realigned location for one year. The report must include at least the following: i.Monitoring results from a);	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.
EAC 79	The report must include at least the following: i.Monitoring results from a); ii.Identification of noise level thresholds for post-realignment, compared to noise levels at the current highway alignment that, if exceeded, would trigger the need for mitigation; iii.Mitigation measures that the Holder will implement to reduce noise levels to below the thresholds in ii) if monitoring results in a) shows that these thresholds were exceeded; and iv.Monitoring plan to assess effectiveness of mitigation measures, if required under this condition.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

No.	EAC Condition	Implementation Status	Compliance Status	2021 Description
EAC 79	The plan must be developed in consultation with West Moberly First Nations.	Ongoing	In Compliance	The plan was developed and submitted to West Moberly First Nations for review and comment on February 5, 2020. West Moberly First Nations responded on March 10, 2020, shortly after BC Hydro communicated our intention to set up the noise monitoring equipment at or near the sweatlodge. West Moberly First Nations indicated that no equipment should be set up in the sweatlodge area. BC Hydro communicated a desire to work collaboratively to ensure respect for their cultural practices and that we would not be installing the noise monitoring equipment at that time. In order to continue with the noise monitoring program, and, to not miss a season for measurement, BC Hydro asked for the First Nations views on a proxy location approach. The Noise Monitoring Plan was amended to reflect the use of proxy locations and shared with the First Nation on October 16, 2020, with a request for comment. BC Hydro continues to reach out to West Moberly First Nations for comments on the amended plan.
EAC 79	The plan must be developed to the satisfaction of the EAO and include at least the following: a)Methods to monitor noise levels at the receiver location during all four seasons, with Highway 29 operating in the: i.Current location approximately 235 m away from the sweat lodge (pre-realignment); and ii.Realigned location approximately 370 m from the sweat lodge (post-realignment).	Ongoing	In Compliance	The amended Noise Monitoring Plan includes details on the proxy locations for undertaking noise monitoring, as a means to avoid impacting the First Nations cultural use of the sweatlodge area. BC Hydro continues to consult with West Moberly First Nations and request feedback on the amended Noise Monitoring Plan.
EAC 79	b) Efforts undertaken to consult with West Moberly First Nations on the draft plan and the opportunities made available to them to participate and provide their views, and how their views have been considered and addressed or why their views have not been addressed.	Ongoing	In Compliance	BC Hydro continues to consult with West Moberly First Nations and request feedback on the amended Noise Monitoring Plan. BC Hydro will provide a summary of this engagement on submission of the plan to the EAO.
EAC 79	The Holder must provide the plan to the EAO and West Moberly First Nations no later than 90 days prior to operation of the realigned Cache Creek Segment of Highway #29.	Planning	Future Requirement	BC Hydro acknowledges and understands this condition.

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Appendix H

Summary of Individual Contracts
Exceeding $10 Million

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Appendix I

Project Progression

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Appendix J

Detailed Project Expenditure

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