

August 31, 2020

Ted White, B.Sc.
Director and Comptroller of Water Rights
Ministry of Forests, Lands, Natural Resource Operations and Rural Development
PO Box 9340 Stn Prov Govt
Victoria, BC V8W 9M1

Dear Mr. White:

**Re: Peace Project Water Use Plan
Peace River Management Plan Annual Report 2020**

Your letters approving the Peace Project Water Use Plan (WUP) monitoring programs and physical works Terms of Reference state that BC Hydro is required to submit an annual report as well as individual monitoring program reports each year. Your letter dated July 16, 2015, approves the split of the Peace Project Annual Report into four separate submissions. The Peace River Management Plan, which includes those projects in Schedule C of the Order, is due in August of each year.

Please find enclosed the 2020 Peace River Management Plan Annual Report for the implementation period June 2019 to July 2020. As per our submission dated August 30, 2019, recognizing that Lynx Creek Boat Launch Maintenance, Halfway River Boat Launch Maintenance, and Taylor Boat Launch Maintenance (GMSWORKS-29, GMSWORKS-52 and GMSWORKS-63) are the only projects remaining in implementation under Schedule C, the annual report for 2020 is provided via this letter. An update is also provided for Peace River Side Channels (GMSWORKS-3), as the final inspection for that project was completed in 2019.

GMSWORKS-3 Peace River Side Channels

The purpose of this project was to improve fisheries habitat and productivity in Peace River side channels. Construction was completed in 2014 at site 102.5R. A final inspection of the site was completed in late 2019, five years post-construction. The inspection report is in draft and will be submitted once finalized.

The draft report notes that the Pine River, immediately upstream of 102.5R, has deposited a significant amount of sediment within the channel since 2014 - its been infilled roughly halfway to pre-construction level. The channel no longer meets the design criteria. Once the consultant report is finalized, and as the anticipated benefits of this project are no longer relevant with the construction of Site C, BC Hydro will seek relief from this project under the WUP Order.

GMSWORKS-29 Lynx Creek Boat Launch Maintenance

This project is for the ongoing maintenance of the Lynx Creek boat launch, which was constructed prior to the completion of the Peace WUP.

Annual maintenance of the existing boat launch will continue in accordance with the Terms of Reference (TOR) approved by the CWR on May 7, 2010, which expired at the end of 2019. We intend to coordinate with the Site C team and make further submissions to your office as required. The boat launch is currently open; however, should the 2020 COVID-19 pandemic situation change the launch may be closed to be consistent with direction of the Office of the Provincial Health Officer.

GMSWORKS-52 Halfway River Boat Launch Maintenance

This project is for the ongoing maintenance of the Halfway River boat launch.

Annual maintenance of the existing boat launch will continue according the CWR letter dated April 3, 2012, until BC Hydro makes further submissions on this or the GMSWORKS-41 (Halfway River Boat Launch Design) project. BC Hydro intends to coordinate with the Site C team and make further submissions to the CWR office as required. The boat launch is currently open; however, should the 2020 COVID-19 pandemic situation change the launch may be closed to be consistent with direction of the Office of the Provincial Health Officer.

GMSWORKS-63 Taylor Boat Launch Maintenance

This project is for the ongoing maintenance of the Taylor boat launch located in Peace Island Park. Design was undertaken in GMSWORKS-30 and construction under GMSWORKS-38.


On March 27, 2018, BC Hydro submitted a revised TOR for maintenance of the boat launch until 2027. The resubmission defined the area of responsibility and included a structural maintenance budget and was approved by the CWR on May 24, 2018.

Annual maintenance on the upgraded boat launch at Taylor will continue, which includes periodic engineering inspections. The boat launch is currently open; however, should the 2020 COVID-19 pandemic situation change the launch may be closed to be consistent with direction of the Office of the Provincial Health Officer.

The updated financial information is in Table 1 at the end of the letter.

Should you have any questions please do not hesitate to contact me.

Regards,



Toby Michaud for:

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Encl.

C:

Toby Michaud, BC Hydro
Jeff Walker, BC Hydro
Bob Gammer, BC Hydro
Dave Conway, BC Hydro
Manjit Kerr-Upal, Ministry of Environment
James Chircoski, Fisheries and Oceans Canada

Table 1: Peace River Management Plan WUP Monitoring Program and Physical Works Costs

| Monitoring Programs & Physical Works | Costs approved by CWR | Life to Date Actuals (LTD) | Estimated to Complete (Forecast) | Total Forecast (LTD and Forecast) | Variance Total to Approved | Explanation | Corrective Action |
|--|-----------------------|----------------------------|----------------------------------|-----------------------------------|----------------------------|--|-------------------|
| Peace River WUP Annual Report | \$56,321 | \$47,805 | \$5,277 | \$53,081 | \$3,240 | | |
| GMSM01A PCR Creel Survey | \$9,937 | \$9,938 | | \$9,938 | (\$1) | Project canceled | |
| GMSM01A PCR Creel Survey - OR DM | \$9,937 | \$9,938 | | \$9,938 | (\$1) | | |
| GMSM01A PCR Creel Survey - OR Imp | \$0 | | | | \$0 | | |
| GMSM02A PCR Fish Index | \$2,285,174 | \$1,498,663 | | \$1,498,663 | \$786,511 | Project canceled | |
| GMSM02A PCR Fish Index - OR DM | \$112,133 | \$63,172 | | \$63,172 | \$48,961 | | |
| GMSM02A PCR Fish Index - OR Imp | \$2,173,041 | \$1,435,492 | | \$1,435,492 | \$737,549 | | |
| GMSM05A PCR Productivity | \$1,133,979 | \$228,183 | | \$228,183 | \$905,796 | Project canceled | |
| GMSM05A PCR Productivity - OR DM | \$129,576 | \$35,925 | | \$35,925 | \$93,651 | | |
| GMSM05A PCR Productivity - OR Imp | \$1,004,403 | \$192,258 | | \$192,258 | \$812,145 | | |
| GMSM07A PCR Side Channel Fish | \$841,652 | \$234,903 | | \$234,903 | \$606,749 | Project canceled | |
| GMSM07A PCR Side Channel Fish - OR DM | \$148,761 | \$42,891 | | \$42,891 | \$105,870 | | |
| GMSM07A PCR Side Channel Fish - OR Imp | \$692,891 | \$192,012 | | \$192,012 | \$500,879 | | |
| GMSW01A PCR Aerial Photos | \$709,995 | \$233,073 | | \$233,073 | \$476,922 | Project canceled | |
| GMSW01A PCR Aerial Photos - OR DM | \$15,318 | \$11,536 | | \$11,536 | \$3,782 | | |
| GMSW01A PCR Aerial Photos - OR Imp | \$694,677 | \$221,537 | | \$221,537 | \$473,140 | | |
| GMSW03A PCR Trial Side Chan | \$2,477,678 | \$1,279,515 | \$413 | \$1,279,928 | \$1,197,750 | Project suspended | |
| GMSW03A PCR Trial Side Chan - OR DM | \$48,977 | \$57,369 | \$413 | \$57,783 | (\$8,806) | | |
| GMSW03A PCR Trial Side Chan - OR Imp | \$2,428,701 | \$1,222,146 | | \$1,222,146 | \$1,206,555 | | |
| GMSW04A PCR Hydraulic Habit - OR | \$134,816 | \$134,815 | | \$134,815 | \$1 | Project complete | |
| GMSW04A PCR Hydraulic Habit - OR DM | \$17,728 | \$17,727 | | \$17,727 | \$1 | | |
| GMSW04A PCR Hydraulic Habit - OR Imp | \$117,088 | \$117,088 | | \$117,088 | \$0 | | |
| GMSW05A PCR Hydraulic Model | \$270,648 | \$210,659 | | \$210,659 | \$59,989 | Project complete | |
| GMSW05A PCR Hydraulic Model - OR DM | \$31,742 | \$30,994 | | \$30,994 | \$748 | | |
| GMSW05A PCR Hydraulic Model - OR Imp | \$238,906 | \$179,665 | | \$179,665 | \$59,241 | | |
| GMSW06A PCR Mainstem Stage | \$306,437 | \$295,755 | | \$295,755 | \$10,682 | Project complete | |
| GMSW06A PCR Mainstem Stage - OR DM | \$39,515 | \$33,755 | | \$33,755 | \$5,760 | | |
| GMSW06A PCR Mainstem Stage - OR Imp | \$266,922 | \$262,000 | | \$262,000 | \$4,922 | | |
| GMSW07A PCR Riparian Habit | \$181,857 | \$153,336 | | \$153,336 | \$28,521 | Project complete | |
| GMSW07A PCR Riparian Habit - OR DM | \$22,854 | \$31,569 | | \$31,569 | (\$8,715) | | |
| GMSW07A PCR Riparian Habit - OR Imp | \$159,003 | \$121,768 | | \$121,768 | \$37,235 | | |
| GMSW10A PCR Industry & Tay | \$220,253 | \$159,484 | | \$159,484 | \$60,769 | Project complete | |
| GMSW10A PCR Industry & Tay - OR DM | \$69,761 | \$26,652 | | \$26,652 | \$43,109 | | |
| GMSW10A PCR Industry & Tay - OR Imp | \$150,492 | \$132,832 | | \$132,832 | \$17,660 | | |
| GMSW13A PCR Recreation Acc | \$326,409 | \$131,146 | | \$131,146 | \$195,263 | Project complete | |
| GMSW13A PCR Recreation Acc - OR DM | \$96,825 | \$16,632 | | \$16,632 | \$80,193 | | |
| GMSW13A PCR Recreation Acc - OR Imp | \$229,584 | \$114,514 | | \$114,514 | \$115,070 | | |
| GMSW29A Lynx Creek BL Maintenance | \$280,376 | \$8,331 | | \$8,331 | \$272,045 | Submissions to the CWR regarding the ongoing need for this project will be made in 2020. | |
| GMSW29A Lynx Creek BL Maintenance- OR DM | \$91,709 | \$4,554 | | \$4,554 | \$87,155 | | |
| GMSW29A Lynx Creek BL Maintenance OR Imp | \$188,667 | \$3,777 | | \$3,777 | \$184,890 | | |
| GMSW30A Taylor BL Design | \$260,501 | \$256,014 | | \$256,014 | \$4,487 | Project complete | |
| GMSW30A Taylor BL Design - OR DM | \$2,641 | \$21,005 | | \$21,005 | (\$18,364) | | |
| GMSW30A Taylor BL Design - OR Imp | \$257,860 | \$235,009 | | \$235,009 | \$22,851 | | |
| GMSW38A Taylor BL Construction | \$5,408,200 | \$5,404,955 | | \$5,404,955 | \$3,245 | Project complete | |
| GMSW38A Taylor BL Construction - OR DM | \$145,100 | \$36,392 | | \$36,392 | \$108,708 | | |
| GMSW38A Taylor BL Construction - OR Imp | \$5,263,100 | \$5,368,563 | | \$5,368,563 | (\$105,463) | | |
| GMSW40A BRD Blackfoot Park BL | \$93,732 | \$93,732 | | \$93,732 | \$0 | Project canceled | |
| GMSW40A BRD Blackfoot Park BL- OR DM | \$17,508 | \$17,508 | | \$17,508 | | | |
| GMSW40A BRD Blackfoot Park BL- OR Imp | \$76,224 | \$76,224 | | \$76,224 | | | |
| GMSW41A BRD Halfway R BL Design | \$0 | \$52,642 | | \$52,642 | (\$52,642) | Costs associated with design prior to projet suspension. | |
| GMSW41A BRD Halfway R BL Design - OR DM | \$0 | \$11,093 | | \$11,093 | (\$11,093) | | |
| GMSW41A BRD Halfway R BL Design - OR Imp | \$0 | \$41,549 | | \$41,549 | (\$41,549) | | |
| GMSW48A BRC Blackfoot Pk BL Maint | \$45,481 | \$45,481 | | \$45,481 | (\$0) | Project canceled | |
| GMSW48A BRC Blackfoot Pk BL Maint- OR DM | \$5,026 | \$5,026 | | \$5,026 | (\$0) | | |
| GMSW48A BRC Blackfoot Pk BL Maint-OR Imp | \$40,455 | \$40,455 | | \$40,455 | (\$0) | | |
| GMSW52A Halfway River BL Design | \$180,000 | \$57,500 | \$32,859 | \$90,359 | \$89,641 | Budget includes contingency that has not been used | |
| GMSW52A Halfway River BL Design - OR DM | \$0 | \$12,512 | \$4,190 | \$16,702 | (\$16,702) | | |
| GMSW52A Halfway River BL - OR Imp | \$180,000 | \$44,988 | \$28,669 | \$73,657 | \$106,343 | | |
| GMSW55A Blackfoot BL Maintenance | \$0 | | | \$0 | \$0 | Project canceled | |
| GMSW55A Blackfoot BL Maintenance - OR DM | \$0 | | | | \$0 | | |
| GMSW55A Blackfoot BL Maintenance- OR Imp | \$0 | | | | \$0 | | |
| GMSW63A Taylor BL Maintenance | \$566,951 | \$67,816 | \$151,509 | \$219,325 | \$347,626 | Budget includes contingency that has not been used | |
| GMSW63A Taylor BL Maintenance - OR DM | \$38,731 | \$23,615 | \$9,109 | \$32,725 | \$6,007 | | |
| GMSW63A Taylor BL Maintenance - OR Imp | \$528,220 | \$44,201 | \$142,400 | \$186,601 | \$341,619 | | |

OR - Ordered Remissible
ONR - Ordered Non-Remissible