

February 28, 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: Wahleach Project Water Use Plan
Monitoring Programs and Physical Works Annual Report 2020**

Your letter approving the Wahleach Project Monitoring Program and Physical Works Terms of Reference states that BC Hydro is required to submit an annual report as well as individual monitoring program reports in February of each year. As per your approval email dated February 10, 2020, recognizing that WAHWORKS-2 Wahleach Reservoir Fertilization Program is the only project left in implementation under the Wahleach Project Water Use Plan, the annual report for 2020 is provided via this letter.

WAHWORKS-2 Wahleach Reservoir Fertilization Program

The objective of this program was to restore kokanee abundance in Wahleach Reservoir through annual application of nutrient fertilizer from June through October. The project also includes a monitoring program designed to ensure program effectiveness, evaluate in-season progress, and enable fine-tuning supplements the fertilizer application program.

This physical works was initiated in 2005 and is still underway. BC Hydro, in consultation with the Ministry of Environment, recommended that the fertilization program continue until completion of the WUP Order Review when a long-term decision can be made on the reservoir fertilization. On February 14, 2018, your office approved a TOR addendum to extend the fertilization program until 2020 with a budget adjustment approved on June 21, 2018. The WUP Order Review schedule was revised and is currently proposed for 2025. A TOR to extend this study will be submitted to your office prior to September 2020.

The updated financial information for all projects is in Table 1 below.

Table 1: Wahleach Water Use Plan Monitoring Programs and Physical Works Costs

| Monitoring Programs | Costs approved by CWR | Life to Date Actuals (LTD) | Estimated to Complete (Forecast) | Total Forecast (LTD and Forecast) | Variance Total to Approved | Explanation |
|---|-----------------------|----------------------------|----------------------------------|-----------------------------------|----------------------------|---|
| Wahleach WUP Annual Report | \$14,359 | \$14,260 | - | \$14,260 | \$99 | |
| WAHM01A Fish Productivity Ind | \$1,335,486 | \$537,055 | - | \$537,055 | \$798,431 | Project complete |
| WAHM01A Fish Productivity Ind - ONR DM | \$147,986 | \$56,760 | - | \$56,760 | \$91,226 | |
| WAHM01A Fish Productivity Ind - ONR Imp | \$1,187,500 | \$480,294 | - | \$480,294 | \$707,206 | |
| WAHM02A Channel Stability Ass | \$227,278 | \$173,845 | - | \$173,845 | \$53,433 | Project complete |
| WAHM02A Channel Stability Ass - ONR DM | \$74,678 | \$29,950 | - | \$29,950 | \$44,728 | |
| WAHM02A Channel Stability Ass - ONR Imp | \$152,600 | \$143,895 | - | \$143,895 | \$8,705 | |
| WAHM03A Herring Island Side | \$479,514 | \$330,230 | - | \$330,230 | \$149,284 | Project complete |
| WAHM03A Herring Island Side - ONR DM | \$141,814 | \$47,128 | - | \$47,128 | \$94,686 | |
| WAHM03A Herring Island Side - ONR Imp | \$337,700 | \$283,102 | - | \$283,102 | \$54,598 | |
| WAHW01A Boulder Cr Flow Byp | \$1,330,034 | \$296,890 | \$5,068 | \$301,958 | \$1,028,076 | Project complete |
| WAHW01A Boulder Cr Flow Byp - ONR DM | \$265,918 | \$48,470 | \$5,068 | \$53,538 | \$212,380 | |
| WAHW01A Boulder Cr Flow Byp - ONR Imp | \$283,116 | \$179,728 | - | \$179,728 | \$103,388 | |
| WAHW01A Boulder Cr Flow Byp - CAP Imp | \$781,000 | \$68,692 | - | \$68,692 | \$712,308 | |
| WAHW02A Fertilization Progr | \$1,865,963 | \$1,666,278 | \$157,395 | \$1,823,673 | \$42,290 | A TOR to extend this work will be submitted in 2020 |
| WAHW02A Fertilization Progr - ONR DM | \$55,193 | \$47,123 | \$9,500 | \$56,623 | (\$1,430) | |
| WAHW02A Fertilization Progr - ONR Imp | \$1,810,770 | \$1,619,155 | \$147,895 | \$1,767,050 | \$43,720 | |
| WAHW03A Lower WAH Channel | \$241,609 | \$111,913 | \$5,068 | \$116,981 | \$124,628 | Project complete |
| WAHW03A Lower WAH Channel - ONR DM | \$67,659 | \$31,885 | \$5,068 | \$36,953 | \$30,706 | |
| WAHW03A Lower WAH Channel - ONR Imp | \$173,950 | \$80,028 | - | \$80,028 | \$93,922 | |

OR - Ordered Remissible
ONR - Ordered Non-Remissible

A hard copy is being mailed to you, and the following individual project reports can be found on our Extranet site <https://extranet.bchydro.com/sites/wire/CWR/Forms/AllItems.aspx>:

- WAHW02A Wahleach Reservoir Fertilization Program summary review report(study period 2009 to 2015, dated October 07, 2019);
- WAHW02A Wahleach Reservoir Fertilization Program (YR 12 dated October 10, 2019);
- WAHW02A Wahleach Reservoir Fertilization Program (YR 13 dated October 10, 2019); and
- WAHW02A Wahleach Reservoir Fertilization Program (YR 14 dated February 21, 2020).

The project report from the 2019 field season is under review.

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

Regards,

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Encl.

C:
Toby Michaud, BC Hydro
Manjit Kerr-Upal, Ministry of Environment
Dan Snee, Fisheries and Oceans Canada