Peace Water Use Plan
Peace River Management Plan

Monitoring Programs and Physical Works
Annual Report 2017

Implementation Period: June 2016 to July 2017

- **GMSMON-1 PCR Creel Survey**
- **GMSMON-2 PCR Fish Index**
- **GMSMON-5 PCR Productivity**
- **GMSMON-7 PCR Side Channel Fisheries**
- **GMSWORKS-1 PCR Aerial Photos**
- **GMSWORKS-3 PCR Side Channels**
- **GMSWORKS-4 PCR Hydraulic Habitat**
- **GMSWORKS-5 PCR Hydraulic Model**
- **GMSWORKS-6 PCR Mainstem Stage Discharge**
- **GMSWORKS-7 PCR Riparian Habitat Assessment**
- **GMSWORKS-10 PCR Industry & Taylor Water Quality Assessment**
- **GMSWORKS-13 PCR Recreation Access**
- **GMSWORKS-29 Lynx Creek Boat Launch Maintenance**
- **GMSWORKS-30 Taylor Boat Launch Design**
- **GMSWORKS-38 Taylor Boat Launch Construction**
- **GMSWORKS-40 Blackfoot Park Boat Launch Design**
- **GMSWORKS-41 Halfway River Boat Launch Design**
- **GMSWORKS-48 Blackfoot Park Boat Launch Construction**
- **GMSWORKS-52 Halfway River Boat Launch Maintenance**
- **GMSWORKS-55 Blackfoot Park Boat Launch Maintenance**
- **GMSWORKS-63 Taylor Boat Launch Maintenance**

For Water Licences 123018, 123019, 123020, 123021, 123025

August 31, 2017

BC Hydro Peace Water Use Plan
Peace River Management Plan
Annual Report: 2017

1 Introduction

This document represents a summary of the status and the results of the Peace Project Peace River Management Plan Water Use Plan (WUP) monitoring program and physical works projects to July 31, 2017, as per the Peace Order under the *Water Act,* dated August 9, 2007. This annual report includes those projects in Schedule C of the Order. There are four monitoring programs and seventeen physical works.

2 Status

The following table outlines the dates that Terms of Reference (TOR) for the Peace River Management Plan WUP monitoring programs and physical works were submitted to and approved by the Comptroller of Water Rights (CWR).

Table 2-1 Dates of Peace River Management Plan WUP TOR Submissions and Approvals by the Comptroller of Water Rights

Monitoring Program & Physical Works TOR	Order Clause	Original ToR Submission		Most Recent ToR Resubmission	
		Date Submitted	Date Approved	Date Submitted	Date Approved
GMSMON-1 PCR Creel Survey	Schedule C.4.a	Apr 10, 2008	Apr 28, 2008	Aug 26, 2011	Nov 23, 2011 Approval to cancel
GMSMON-2 PCR Fish Index	Schedule C.4.b	Apr 10, 2008	Apr 28, 2008	Jul 24, 2015	Sep 8, 2015 approval to suspend
GMSMON-5 PCR Productivity	Schedule C.4.c	Aug 08, 2008	Sep 15, 2008	Jul 24, 2015	Sep 8, 2015 approval to suspend
GMSMON-7 PCR Side Channel Fisheries	Schedule C.4.d	Feb 07, 2008	Apr 02, 2008	Jul 24, 2015	Sep 8, 2015 approval to suspend
GMSWORKS-1 PCR Aerial Photos	Schedule C.1	May 09, 2008	Jun 02, 2008	Jul 24, 2015	Sep 8, 2015 approval to suspend
GMSWORKS-3 PCR Side Channels	Schedule C.1.a	May 09, 2008	Jun 02, 2008	Jul 24, 2015	Sep 8, 2015 approval to suspend
GMSWORKS-4 PCR Hydraulic Habitat	Schedule C.1.b	May 09, 2008	Jun 02, 2008	Aug 07, 2009	Jan 20, 2010
GMSWORKS-5 PCR Hydraulic Model	Schedule C.1.b	May 09, 2008	Jun 02, 2008	Aug 07, 2009	Jan 20, 2010
GMSWORKS-6 PCR Mainstem Stage Discharge	Schedule C.1.b	May 09, 2008	Jun 02, 2008	Jun 27, 2013	Jul 11, 2013
GMSWORKS-7 PCR Riparian Habitat Assessment	Schedule C.1.c	Feb 07, 2008	Apr 02, 2008	Aug 07, 2009	Jan 20, 2010
GMSWORKS-10 PCR Industry & Taylor Water Quality Assessment	Schedule C.4.e	Nov 26, 2008	Dec 17, 2008		
GMSWORKS-13 PCR Recreation Access	Schedule C.2	May 09, 2008	Jun 02, 2008	Aug 07, 2009	Jan 20, 2010
GMSWORKS-29 Lynx Creek Boat Launch Maintenance	Schedule C.2.a	Apr 16, 2010	May 07, 2010		
GMSWORKS-30 Taylor Boat Launch Design	Schedule C.2.c	Apr 16, 2010	May 07, 2010	Jul 25, 2012	Aug 02, 2012
GMSWORKS-38 Taylor Boat Launch Construction	Schedule C.2.c	Jul 25, 2012	Aug 02, 2012	Oct 30, 2013	Nov 05, 2013
GMSWORKS-40 Blackfoot Park Boat Launch Design	Schedule C.2.d	Apr 15, 2010	Jun 28, 2010	Aug 19, 2013	Oct 10, 2013 Approval to cancel
GMSWORKS-41 Halfway River Boat Launch Design	Schedule C.2.b	Apr 15, 2010	Jun 28, 2010	Apr 18, 2011	Apr 3, 2012 Deferred until Site C decision
GMSWORKS-48 Blackfoot Park Boat Launch Construction	Schedule C.2.d	Apr 18, 2011	Apr 3, 2012 Deferred	Aug 19, 2013	Oct 10, 2013 Approval to cancel
GMSWORKS-52 Halfway River Boat Launch Maintenance	Schedule C.2.b	Apr 18, 2011	Apr 03, 2012		
GMSWORKS-55 Blackfoot Park Boat Launch Maintenance	Schedule C.2.d	Apr 18, 2011	Apr 3, 2012 Deferred	Aug 19, 2013	Cancelled Oct 10, 2013
GMSWORKS-63 Taylor Boat Launch Maintenance	Schedule C.2.c	Jul 25, 2012	Aug 1, 2012 Not approved	Jun 10, 2013	Jun 20, 2013

3 Schedule

The following table outlines the current schedule for the monitoring programs and physical works being delivered for the Peace River Management Plan WUP.

Table 3-1: Monitoring Programs and Physical Works Schedule as of July 31, 2017

Monitoring Programs and Physical Works	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
	WLR YR1	WLR YR2	WLR YR3	WLR YR4	WLR YR5	WLR YR6	WLR YR7	WLR YR8	WLR YR9	WLR YR10	WLR YR11	WLR YR12
GMSMON-1: PCR Creel Survey		×	×	●								
GMSMON-2: PCR Fish Index [1]	✓	✓	✓	✓	✓	✓	✓					
GMSMON-5: PCR Productivity [1]			Del	Del	Del	✓	✓					
GMSMON-7: PCR Side Channel Fisheries [1]			Del	Del	Del	✓	✓					
GMSWORKS-1: PCR Aerial Photos [1]	✓	✓	✓	✓			✓					
GMSWORKS-3: PCR Side Channels [1]	Del	✓	✓	✓	✓	✓	✓					
GMSWORKS-4: PCR Hydraulic Habitat	Del	✓	✓	✓	✓**F**							
GMSWORKS-5: PCR Hydraulic Model	Del	✓	✓	✓	✓	✓**F**						
GMSWORKS-6: PCR Mainstem Stage Discharge	Del	✓	✓	✓	✓	✓	✓**F**					
GMSWORKS-7: PCR Riparian Habitat Assessment			✓	✓	✓**F**							
GMSWORKS-10: PCR Industry & Taylor Water Quality Assessment	Del	✓	✓	✓	✓**F**							
GMSWORKS-13: PCR Recreation Access	✓	✓	✓**F**									
GMSWORKS-29 Lynx Creek Boat Launch Maintenance			✓	✓	✓	✓	✓	✓	✓	u/w*	■*	■*
GMSWORKS-30 Taylor Boat Launch Design			✓	✓	✓**F**							
GMSWORKS-38 Taylor Boat Launch Construction					✓	✓**F**						
GMSWORKS-40 Blackfoot Park Boat Launch Design			✓	✓	✓	●						
GMSWORKS-41 Halfway River Boat Launch Design [1]			✓	✓								
GMSWORKS-48 Blackfoot Park Boat Launch Construction						●						
GMSWORKS-52 Halfway River Boat Launch Maintenance						✓	✓	✓	✓	u/w*	■*	■*
GMSWORKS-55 Blackfoot Park Boat Launch Maintenance						●						
GMSWORKS-63 Taylor Boat Launch Maintenance						✓*	✓*	✓*	✓	u/w*	■*	■*

Legend	■	=	Project to be undertaken/initiated in identified year
	✓	=	Project is completed for the year
	u/w	=	Project is under way
	*	=	Maintenance only in identified year
	●	=	Relief granted; Project cancelled
	×	=	Project not undertaken as planned for this year
	Del	=	Project is delayed for the year
	✓**F**	=	All field work for this project is complete. No further field work is planned.

Footnotes:

1. Projects suspended as per CWR due to Site C
2. Project partially suspended as per CWR due to Site C

4 Monitoring Programs and Physical Works Terms of Reference

The monitoring programs and physical works being implemented under the Peace River Management Plan WUP are described in Terms of Reference (TOR). These Terms of Reference and the reports for work completed to date can be found here:

https://www.bchydro.com/about/sustainability/conservation/water_use_planning/northern_interior/peace_river/recreational_access.html

5 Status of Monitoring Programs

5.1 GMSMON-1 Peace River Creel Survey

The objective of this project was to monitor fishing pressure due to sport fishing to aid in evaluating the effectiveness of operational changes or physical works projects designed to improve fish habitat and fish productivity.

At the same time as this project was undertaken, the Site C Phase 2 environmental investigations were also conducting a creel survey. The WUP survey was delayed until completion of the Site C survey, as the scope and budget exceeded the WUP survey. The Site C survey was unable to account for high variability and detect changes in fish populations, thereby indicating that the scope, schedule and budget for the WUP survey would be insufficient to answer the management questions. As a result, this project is cancelled as per the CWR approval on November 23, 2011.

5.2 GMSMON-2 Peace River Fish Index

The purpose of this monitoring project was to understand trial side channel effectiveness as demonstrated through changes in fish populations. This monitoring project commenced in 2008 and was to be undertaken every year for ten years (completing in 2017). However, as the area for this project is located in the future Site C inundation zone and the outcome of the indexing will not be applicable to a reservoir environment; this project has been suspended as per the CWR letter of September 8, 2015.

5.3 GMSMON-5 Peace River Productivity

This monitoring project was designed to evaluate the side channel effectiveness through any observed changes in periphyton communities. This monitoring project commenced in 2013. However, as the area for this project is located in the future Site C inundation zone and the outcome of the project will not be applicable to a reservoir environment, this project has been suspended as per the CWR letter of September 8, 2015.

5.4 GMSMON-7 Peace River Side Channel Fisheries

The purpose of this monitoring project was to monitor side channel fisheries habitat to assess the efficacy of the trial side channel enhancements (GMSWORKS-3) and inform flow regime decisions at Peace Canyon Generating Station. Work commenced in 2013 with the collection of baseline information. The works at location Site 102.5R were completed in spring of 2014 and one year of post-construction information was collected. However, as the area for this

project is located in the future Site C inundation zone and the outcome of the project will not be applicable to a reservoir environment, this project has been suspended as per the CWR letter of September 8, 2015.

6 Status of Physical Works

6.1 GMSWORKS-1 Peace River Aerial Photos

The objective of this opportunistic project was to document the effect of Peace River inundation of shoreline and riparian areas to inform the flood pulse management plan. This work was initiated in October 2008, and the first complete set of photos for all required flows was completed by 2011. A second set of photos were planned to be undertaken in 2016. However, as the area for this project is located in the future Site C inundation zone and the outcome of the study will not be applicable to a reservoir environment, this project has been suspended as per the CWR letter of September 8, 2015.

6.2 GMSWORKS-3 Peace River Side Channels

The purpose of this project was to improve fisheries habitat and productivity in Peace River side channels. The inventory work associated with this project was initiated in May 2009 and was completed in January 2010. A final report for the inventory stage was completed in May 2010.

Site selection continued in 2011, and sites (32L and 102.5R) were approved by the CWR on July 28, 2011. Designs were developed in 2012 and construction was planned for fall 2013. Permitting delays resulted in construction delays until the following spring. Construction at Site 102.5R was completed in April 2014. Inspections occurred in 2014 and 2015 assessed functionality, bank stability, vegetation. and erosion. The biological monitoring of this project was undertaken in GMSMON-7.

The second trial site (32L) is located between the Peace Canyon Dam and the Pine Review confluence and within the future inundation zone for Site C. As per the CWR letter of September 8, 2015, this project was suspended.

6.3 GMSWORKS-4 Peace River Hydraulic Habitat

The objective of this project was to estimate hydraulic habitat types as a function of flow, in order to quantify fish habitat in the Peace River at several steady state discharges. The study involved using aerial photos for different flows, determining habitat types into a GIS-based mapping system, and developing a modelling of hydraulic habitat as a function of flow.

This project was initiated in 2009 and was completed in 2012.

6.4 GMSWORKS-5 Peace River Hydraulic Model

The purpose of this project was to develop a hydraulic model to support side channel habitat restoration projects. The project involved surveying cross sections between Peace Canyon Dam and the Pine River and incorporating other available modelling and data.

This project commenced in 2009 and was completed in 2013.

6.5 GMSWORKS-6 Peace River Mainstem Stage Discharge

The purpose of this project was to establish stage discharge relationships at points along the Peace River. Five hydrometric stations were installed for long term flow monitoring to allow correlation of side channel inundation with mainstem discharge, and to provide data for calibration and validation of a numerical model (under GMSWORKS-5). Station locations were selected based on channel stability, hydraulic control, and proximity to other hydrometric gauges, tributaries, and side channel complexes.

This project was initiated in 2009. In 2013, the CWR approved a TOR addendum that reduced the study duration to five years as the original ten-year duration of the project was not required to reach the objective. This project was completed in 2014.

6.6 GMSWORKS-7 Peace River Riparian Habitat Assessment

The purpose of this project was to assess the vegetation community in the riparian zone with respect to flood-dependent species, advancement of vegetation on river bars, and loss or receding of vegetation in other areas. The riparian habitat classifications were separated into five groups, which were considered to have at least some degree of dependence on flooding:

- non-vegetated;
- wetland and aquatic;
- shrub/graminoid/forb;
- balsam poplar dominated; and
- white spruce, paper birch, or trembling aspen dominated.

Work on this project was initiated in 2010 and completed in 2012.

6.7 GMSWORKS-10 Peace River Industry and Taylor Water Quality Assessment

The purpose of this project was to investigate hydraulic effects that may occur when the Peace River flows are reduced during the Pine River freshet. The study consisted of a review of available information, interviews with industrial and municipal stakeholders, site reconnaissance, and collection of field data related to bathymetric surveys, turbidity profiles, suspended sediment concentrations, and sampling of the dredged material from the river intake.

This project was initiated in 2009 and completed in 2012.

6.8 GMSWORKS-13 Peace River Recreational Access

The objective of this feasibility study was to evaluate options for improving recreational access on the Peace River. The WUP Order contained requirements for feasibility studies for Lynx Creek, Halfway River, Peace Island Park and Clayhurst/Blackfoot Regional Park. However, two boat launches (Lynx and Taylor (Peace Island Park)) had already been constructed by the time the WUP Order was issued. In 2010, the CWR acknowledged that as Lynx and Taylor had been constructed, no additional feasibility study (per Order Schedule C.2 a) was required for these two boat launches[1].

The feasibility study was completed in March 2010 for a site within the Blackfoot Regional Park, the existing location of the Halfway River boat launch plus two other alternate sites near Halfway River. The feasibility study included a site inspection, environmental assessment, archaeological assessment, and conceptual design that included a high level cost estimate. The alternate sites were not recommended and it was recommended to progress to additional design and investigations at both existing boat launch locations.

The next phase of design work for Halfway and Blackfoot Park boat launches was completed under GMSWORKS-41 and GMSWORKS-40, respectively, described further below.

This project is complete.

6.9 GMSWORKS-29 Lynx Creek Boat Launch Maintenance

This project is for the ongoing maintenance of the Lynx Creek boat launch.

The Lynx Creek boat ramp was constructed prior to the completion of the Peace WUP. It is a small ramp located on BC Hydro property, about 7 km from Hudson's Hope. The ramp consists of pre-cast concrete panels with upstream rock groynes to deflect river currents and reduce erosion around the ramp.

Annual maintenance of the existing boat launch will continue in accordance with the TOR approved by the CWR on May 7, 2010, which covers the period to 2019.

6.10 GMSWORKS-30 Taylor Boat Launch Design

This project covered the design of the ramp at Taylor in Peace Island Park, located 15 km southeast of Fort St. John on the south bank of the Peace River. It is situated less than 100 m upstream of the Highway 97 bridge that crosses the Peace River and less than 2 km downstream of the Pine River confluence.

BC Hydro constructed the ramp at Peace Island Park prior to completion of the Peace WUP. By 2010, BC Hydro had identified significant deficiencies on the ramp, and outlined extensive repair works including placement of rip-rap and lock-blocks to prevent undercutting. On May 7, 2010, the CWR approved these repairs.

Between 2010 and 2012, BC Hydro undertook an additional engineering assessment followed by community engagement, and recommended

[1] Concerns were subsequently identified and additional work was undertaken in GMSWORKS-30, 38 and 52 described below.

replacement of the ramp with a new orientation angled with the flow of the Peace River, that would allow the ramp to be maintained to an acceptable level of safety. Emergency works were completed in 2012 so that the ramp would be usable that summer. The CWR approved construction in 2012 under GMSWORKS-38 described further below. Ongoing maintenance of the Taylor ramp is covered by GMSWORKS-63.

This project is complete.

6.11 GMSWORKS-38 Taylor Boat Launch Construction

This project was for the construction of the new ramp at Taylor (Peace Island Park) following the design work undertaken in GMSWORKS-30.

Construction commenced in September 2012 and the concrete ramp was in-service by the end of March 2013. The scope of work included new slope protection along the shoreline and boat ramp area, a new double lane cast-in-place concrete ramp with V-grooved surface, mooring bollards, and a gravel turnaround area at the top of the ramp. This project is complete.

Maintenance of the Taylor boat launch is covered by GMSWORKS-63.

6.12 GMSWORKS-40 Blackfoot Park Boat Launch Design

This project was for the design phase for the boat ramp upgrade at Blackfoot Regional Park. The park is located close to the Alberta border immediately downstream (east) of the Clayhurst Road Bridge.

Preliminary feasibility for upgrades of the Blackfoot Park boat launch was undertaken in GMSWORKS-13, with a conceptual design developed. Design and further investigations proceeded in 2011 and 2012. Concerns were raised in early 2012 about the safety of the current location, which was within a floodplain, and the CWR approved additional engineering and properties assessments. In 2013, following these additional investigations, BC Hydro concluded that flooding issues related to the topography of the site would affect the feasibility of upgrade options. Additionally, due to the complexity of constructing within the Peace River, any boat ramp construction in the river would be extremely costly. Moreover, given the proximity to the nearby Taylor boat launch (recently upgraded under GMSWORKS-38), this launch was expected to have low use.

Consequently, on October 10, 2013, the CWR granted relief from further design under this project, construction (under GMSWORKS-48) and from maintenance (under GMSWORKS-55) on the Blackfoot Park boat launch facilities.

The project is complete.

6.13 GMSWORKS-41 Halfway River Boat Launch Design

This project was for the design of the Halfway River boat launch.

The existing Halfway River boat launch is located immediately south (downstream) of the Highway 29 Bridge over the Halfway River on the east bank. The site is located approximately halfway between Hudson's Hope and Fort St John.

The feasibility was undertaken in GMSWORKS-13, which also identified an alternative location to the existing boat launch, although ultimately the existing

location was preferred due to lesser impacts to fish and wildlife habitat. Preliminary designs for improvements the existing boat launch were developed in 2011.

On April 3, 2012, following agreement between local stakeholders and BC Hydro, the CWR approved suspending this project (i.e., deferring any further decisions) pending Site C developments. Maintenance at the current site occurs under GMSWORKS-52 discussed further below.

6.14 GMSWORKS-48 Blackfoot Park Boat Launch Construction

This project was for the construction costs associated with the boat ramp at Blackfoot Park. As discussed in GMSWORKS-40 above, on October 10, 2013, the CWR granted relief from construction at the Blackfoot Park boat launch.

The project is complete.

6.15 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.

6.16 GMSWORKS-55 Blackfoot Park Boat Launch Maintenance

This project was intended for the ongoing maintenance of the Blackfoot Park boat launch. As indicated in GMSWORKS-40 and -48 above, on October 10, 2013, the CWR granted relief for any further maintenance at the Blackfoot Park boat ramp.

This project is complete.

6.17 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.

Annual maintenance on the upgraded boat launch at Taylor will continue, which includes periodic engineering inspections. BC Hydro is currently developing a revised scope for ongoing maintenance at Taylor based on an appropriate inspection schedule and access-related maintenance consistent with other boat launches on BC Hydro reservoirs. A TOR for maintenance will be submitted before March 31, 2018.

7 Monitoring Programs and Physical Works Costs

The following table summarizes the Peace River Management Plan WUP monitoring programs and physical works costs approved by the Comptroller and the Actual Costs to July 31, 2017.

Table 7-1: Peace River Management Plan WUP Monitoring Programs 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
GMSM01A PCR Creel Survey	$9,937	$9,938	$0	$9,938	($1)	Project cancelled	
GMSM01A PCR Creel Survey - OR DM	$9,937	$9,938	$0	$9,938	($1)		
GMSM01A PCR Creel Survey - OR Imp	$0		$0	$0	($0)		
GMSM02A PCR Fish Index	$2,285,174	$1,497,472	$1,569	$1,499,041	$786,133	Project suspended; Forecast reflects outstanding completion report.	
GMSM02A PCR Fish Index - OR DM	$112,133	$61,980	$1,569	$63,549	$48,584		
GMSM02A PCR Fish Index - OR Imp	$2,173,041	$1,435,492		$1,435,492	$737,549		
GMSM05A PCR Productivity	$1,133,979	$227,249	$849	$228,098	$905,881	Project suspended; Forecast reflects outstanding completion report.	
GMSM05A PCR Productivity - OR DM	$129,576	$34,991	$849	$35,840	$93,736		
GMSM05A PCR Productivity - OR Imp	$1,004,403	$192,258	$0	$192,258	$812,145		
GMSM07A PCR Side Channel Fish	$841,652	$233,831	$2,800	$236,631	$605,021	Project suspended; Forecast reflects outstanding completion report.	
GMSM07A PCR Side Channel Fish - OR DM	$148,761	$41,819	$2,800	$44,619	$104,142		
GMSM07A PCR Side Channel Fish - OR Imp	$692,891	$192,012	$0	$192,012	$500,879		
GMSW01A PCR Aerial Photos	$709,995	$231,500	$3,617	$235,117	$474,878	Project suspended; Forecast reflects outstanding completion report.	
GMSW01A PCR Aerial Photos - OR DM	$15,318	$9,963	$3,617	$13,580	$1,738		
GMSW01A PCR Aerial Photos - OR Imp	$694,677	$221,537	$0	$221,537	$473,140		
GMSW03A PCR Trial Side Chan	$2,477,678	$1,250,747	$37,976	$1,288,723	$1,188,955	Project suspended before second site constructed; Forecast reflects outstanding completion report.	
GMSW03A PCR Trial Side Chan - OR DM	$48,977	$50,802	$3,600	$54,402	($5,425)		
GMSW03A PCR Trial Side Chan - OR Imp	$2,428,701	$1,199,945		$1,199,945	$1,228,756		
GMSW04A PCR Hydraulic Habit	$134,816	$134,815	$0	$134,815	$1	Project complete.	
GMSW04A PCR Hydraulic Habit - OR DM	$17,728	$17,727	$0	$17,728	$1		
GMSW04A PCR Hydraulic Habit - OR Imp	$117,088	$117,088	$0	$117,088	$0		
GMSW05A PCR Hydraulic Model	$270,648	$210,659	$1,931	$212,590	$58,058	Project complete. Final completion report outstanding	
GMSW05A PCR Hydraulic Model - OR DM	$31,742	$30,994	$1,931	$32,925	($1,183)		
GMSW05A PCR Hydraulic Model - OR Imp	$238,906	$179,665	$0	$179,665	$59,241		
GMSW06A PCR Mainstem Stage	$306,437	$295,755	$1,931	$297,686	$8,751	Project complete. Final completion report outstanding	
GMSW06A PCR Mainstem Stage - OR DM	$39,515	$33,755	$1,931	$35,686	$3,829		
GMSW06A PCR Mainstem Stage - OR Imp	$266,922	$262,000		$262,000	$4,922		
GMSW07A PCR Riparian Habit	$181,857	$153,336	$1,932	$155,268	$26,589	Project complete. Final completion report outstanding	
GMSW07A PCR Riparian Habit - OR DM	$22,854	$31,569	$1,932	$33,500	($10,646)		
GMSW07A PCR Riparian Habit - OR Imp	$159,003	$121,768	$0	$121,768	$37,235		
GMSW10A PCR Industry & Tay	$220,253	$159,484	$1,932	$161,415	$58,838	Project complete. Final completion report outstanding	
GMSW10A PCR Industry & Tay - OR DM	$69,761	$26,652	$1,932	$28,584	$41,177		
GMSW10A PCR Industry & Tay - OR Imp	$150,492	$132,832	$0	$132,832	$17,660		
GMSW13A PCR Recreation Acc	$326,409	$131,146	$1,089	$132,235	$194,174	Project complete. Final completion report outstanding	
GMSW13A PCR Recreation Acc - OR DM	$96,825	$16,632	$1,089	$17,721	$79,104		
GMSW13A PCR Recreation Acc - OR Imp	$229,584	$114,514	$0	$114,514	$115,070		
GMSW29A Lynx Creek Boat Launch Maintenance	$280,376	$8,292	$12,240	$20,532	$259,844	Budget includes contingency that has not been used.	
GMSW29A Lynx Creek - OR DM	$91,709	$4,515	$2,240	$6,755	$84,954		
GMSW29A Lynx Creek - OR Imp	$188,667	$3,777	$10,000	$13,777	$174,890		
GMSW30A Taylor Ramp Boat Launch Design	$260,501	$255,463	$939	$256,403	$4,098	Project complete. Final completion report outstanding	
GMSW30A Taylor Ramp - OR DM	$2,641	$20,454	$939	$21,394	($18,753)		
GMSW30A Taylor Ramp - OR Imp	$257,860	$235,009		$235,009	$22,851		
GMSW38A Taylor Ramp Construction	$5,408,200	$5,404,060	$939	$5,405,000	$3,200	Project complete. Final completion report outstanding	
GMSW38A Taylor Ramp Construct - OR DM	$145,100	$35,497	$939	$36,437	$108,663		
GMSW38A Taylor Ramp Construct - OR Imp	$5,263,100	$5,368,563		$5,368,563	($105,463)		
GMSW40A BRD Blackfoot Park Boat Launch Design	$93,732	$93,732	$0	$93,732	($0)	Project cancelled	
GMSW40A BRD Blackfoot Park - OR DM	$17,508	$17,508	$0	$17,508	($0)		
GMSW40A BRD Blackfoot Park - OR Imp	$76,224	$76,224		$76,224			
GMSW41A BRD Halfway River Boat Launch Design	$0	$52,642	$0	$52,642	($52,642)	Project suspended pending Site C; Costs are associated with design work prior to suspension.	
GMSW41A BRD Halfway River - OR DM	$0	$11,093	$0	$11,093	($11,093)		
GMSW41A BRD Halfway River - OR Imp	$0	$41,549	$0	$41,549	($41,549)		
GMSW48A BRC Blackfoot Park	$45,481	$45,481	$0	$45,481	($0)	Project cancelled.	
GMSW52A Halfway River Boat Launch Maintenance	$180,000	$40,609	$84,641	$125,250	$54,750	Budget includes contingency that has not been used.	
GMSW52A Halfway River - OR DM	$0	$10,271	$9,641	$19,912	($19,912)		
GMSW52A Halfway River - OR Imp	$180,000	$30,338	$75,000	$105,338	$74,662		
GMSW55A Blackfoot Maintenance	$0		$0	$0	($0)	Project cancelled	
GMSW63A Taylor Boat Launch Maintenance	$204,443	$62,085	$53,666	$115,751	$88,692	Budget includes contingency that has not been used.	Updated TOR to be submitted.
GMSW63A Taylor Maintenance - OR DM	$18,585	$18,154	$13,166	$31,320	($12,735)		
GMSW63A Taylor Maintenance - OR Imp	$185,858	$43,931	$40,500	$84,431	$101,427		

OR - Ordered Remissible
ONR - Ordered Non-Remissible

* Red values in parentheses denote overage.