



# Grant County **PUBLIC UTILITY DISTRICT**

## Priest Rapids Coordinating Committee

### MEETING AGENDA

Wednesday, January 28, 2015  
9:00 am

#### Webinar Conference

Audio: 1-800-977-8002 Bridge: 45582544

Go to <https://grantpud.webex.com/grantpud/j.php?MTID=mc16a760c14d27de3bce52c40e66324d3>

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If a password is required, enter the meeting password: go

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#### PRCC Representatives

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Scott Carlon/Justin Yeager (Alt), NMFS

Bob Rose, YN

Jeff Korth, C. Andonaegui (Alt), P. Verhey (Alt) WDFW

Curt Dotson, Tom Dresser (Alt), GCPUD

Denny Rohr, D. Rohr & Assoc., Facilitator

Jim Craig, USFWS

Kirk Truscott, CCT

Tom Skiles, CTUIR

Debbie Williams, GCPUD, Administrative Assistant

- I. Welcome and Introductions
- II. Meeting Minutes Approval – December 16, 2014 (D. Rohr)
- III. Agenda Review (D. Rohr)
- IV. Action Items Review – from December 16, 2014 (D. Rohr)
- V. Update of Wanapum Dam Activities (T. Dresser)
- VI. Survival/Behavioral Studies Final Report (C. Dotson)
- VII. Request for NNI Funding - Barkley Irrigation Company Permanent Point of Diversion Change and Pressurization- CONSTRUCTION, Justin Yeager, NMFS/Habitat SC (D. Rohr)
- VIII. AFFIRMATION of Approval for "SOA 2014-04, Change Sockeye Survival Study from Year 2016 to 2015" (D. Rohr)
- IX. 2015 Steelhead / Sockeye Study (C. Dotson)
- X. Discussion of Joint Meeting with Habitat SC (T. Dresser)
- XI. Potpourri (D. Rohr)

## XII. Updates

- A. Inland Avian Predation Activities (C. Dotson)
- B. Hatchery Activities (T. Dresser)
  - 1. Carlton Acclimation Facility
  - 2. Nason Creek Acclimation Facility
  - 3. Priest Rapids Hatchery Modifications
  - 4. Penticton Hatchery
- C. Hatchery Permits (Section 10 for Summer Chinook and Section 7 Consultation for Bull Trout. (T. Dresser)
- D. NNI Funded Projects
  - 1. 2014 Real Time Research Avian Study (C. Dotson)  
Including "Comprehensive Assessment of Total Smolt Mortality in Relation to Avian Predation on the Mid- and Lower Columbia River: Spatial and Temporal Analysis of Reservoir-Specific Smolt Losses"
  - 2. 2015 Real Time Research / Oregon State University – "Evaluation of Foraging Behavior, Dispersal, and Predation on ESA-listed Salmonids from the Upper Columbia River by Caspian Terns Displaced from Managed Colonies in the Columbia Plateau Region" (C. Dotson)
  - 3. Supplementary Tags and Tagging for Assessment of Predation Losses of Subyearling Chinook Salmon in the lower Hanford Reach and Upper McNary Reservoir (C. Dotson)
  - 4. Upper Columbia Fish Screen Monitoring Program Phase I Contract Extension (J. Korth)
  - 5. Upper Columbia Fish Screen Monitoring Program Phase II – (J. Korth)
  - 6. Lower Wenatchee Instream Flow Enhancement Project Phase II – (J. Korth)
  - 7. Mid-Columbia River Intake Screen and Diversion Assessment (T. Dresser)
  - 8. Methow Valley Irrigation District (MVID) Instream Flow Improvement Project (T. Dresser)
- E. Committee Reports (D. Rohr)
- F. NNI and Habitat Funds Report (D. Rohr)

## XIII. Review of Next Month's Agenda Topics (D. Rohr)

## XIV. Next Meeting – February 25, 2015, (specific location to be discussed)

### **Action Items from December 16, 2014 PRCC Meeting:**

- 1. Rohr will follow up with email affirmation from Skiles and Truscott regarding SOA 2014-04.
- 2. Carlon and Dresser will do follow up work and prepare an SOA for May or June 2015 discussion of how to address the 5 year check in language in the Salmon and Steelhead Settlement Agreement.
- 3. Rohr will research and develop information regarding avian predation funding that has taken place in the Columbia Basin, plus the funding amounts for those involved.
- 4. Dresser will check with the Grant Lands Department staff regarding information and follow up of 6 inactive points of diversion related to water withdrawals from the PR reservoir.



**Grant County**  
**PUBLIC UTILITY DISTRICT**  
*Excellence in Service and Leadership*

## Priest Rapids Coordinating Committee Meeting

Wednesday, January 28, 2015

9:00 am

Webinar conference

### PRCC Representatives

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Scott Carlon, Justin Yeager (Alt), NMFS	Jim Craig, USFWS
Bob Rose, YN	Kirk Truscott, CCT
Jeff Korth, C. Andonaegui (Alt), P. Verhey (Alt), WDFW	Tom Skiles, CTUIR
Curt Dotson, Tom Dresser (Alt), GCPUD	

### PRCC Administration

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Denny Rohr, Facilitator	Debbie Williams, GCPUD, Administrative Assistant
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### Attendees

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Scott Carlon, NMFS	Jeff Korth, WDFW
Tom Skiles, CTUIR	Jim Craig, USFWS
Curt Dotson, GCPUD	Kirk Truscott, CCT
Debbie Williams, GCPUD	Denny Rohr, Facilitator
Justin Yeager, NMFS (9:30 – 9:50 am)	

### Distributed Items:

1. January 28, 2015 Agenda.
2. Draft Study Plan for the Estimation of Juvenile Steelhead and Sockeye Salmon Survival through the Priest Rapids Project in 2015.
3. PRFF committee report.
4. Link to 2014 AFEP Conference avian presentations:  
[http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/2014\\_AFEP/2014\\_AFEP.html](http://www.nwd-wc.usace.army.mil/tmt/documents/FPOM/2010/2014_AFEP/2014_AFEP.html)
5. Barkley Irrigation Company Permanent Point of Diversion Change and Pressurization – Construction.
6. Trash Rack at Wanapum Left-Bank Exit.
7. November 2014 Habitat Funds Report.

### Decision Summary:

1. Approval of SOA 2014-04 was affirmed by the PRCC.
2. PRCC members approved the 2015 Steelhead/Sockeye Study Plan.

### Action Items:

1. Korth will redraft the NNI Avian funding portion of the December 2014 minutes. Rohr will distribute to PRCC members for review and final approval.
2. Carlon and Dresser will do follow up work and prepare an SOA for May or June 2015 discussion of how to address the 5 year check in language in the Salmon and Steelhead Settlement Agreement.
3. Rohr will research and develop information regarding avian predation funding that has taken place in the Columbia Basin, plus the funding amounts for those involved.
4. Dresser will check with the Grant PUD Lands Department staff regarding information and follow up of 6 inactive points of diversion related to water withdrawals from the PR reservoir.
5. Yeager will answer questions listed in agenda item VII, regarding the Barkley Irrigation Company Permanent Point of Diversion Change and Pressurization.
6. Dotson will review Paragraph 3, Section 3.1, of the 2015 Steelhead/Sockeye Study and make corrections.
7. Rohr will arrange a joint meeting between the PRCC and PRCC Habitat Subcommittee.

## Final Meeting Minutes

- I. **Welcome and Introductions** – Rohr welcomed all meeting participants.
- II. **Meeting Minutes Affirmation and Approval (D. Rohr):**
  - A. December, 2014 - Korth suggested that prior to approval, the December 2014 meeting minutes be edited to reflect the PRCC's frustration that NNI funds are being used to conduct avian predation studies, because federal action agencies are not doing their part. Approved, subject to Korth redrafting the NNI Avian funding portion of the minutes. Rohr will distribute to PRCC members for review and final approval.
- III. **Agenda Review (D. Rohr)** – No additions were made to the meeting agenda.
- IV. **Action Items Review – from December 16, 2014 Meeting (D. Rohr)**
  - Rohr will follow up with approval from Skiles and Truscott regarding SOA 2014-04. **Complete**
  - Carlon and Dresser will do follow up work and prepare an SOA for May or June 2015 discussion of how to address the 5 year check in language in the Salmon and Steelhead Settlement Agreement. **Ongoing – will remain as an action item placeholder, until complete.**
  - Rohr will research and develop information regarding avian predation funding that has taken place in the Columbia Basin, plus the funding amounts for those involved. **Ongoing**
  - Dresser will check with the Grant PUD Lands Department staff regarding information and follow up of 6 inactive points of diversion related to water withdrawals from the PR reservoir. **Ongoing**
- V. **Update of Wanapum Dam Activities (C. Dotson)** - Dotson reported that drilling for the installation of tendons and anchor bars continues; with the contractor running double shifts (6:00 a.m. to 10:00 p.m.), seven days a week. An intermediate pool raise is in effect (558'-562'); Wanapum pool remains 10' short of a full pool. Depending on construction and approval

from the Board of Consultants and FERC, April 2015 is the estimated soft date to reach full pool. In order to reach full pool, all tendons must be installed. Anchor bars will continue to be installed after full pool has been reached.

**Trash Rack at Wanapum Left-Bank Fishway Exit** – Dotson explained that the trash rack is in place at all times during normal fishway operations during the fish passage season and that the upper part of the trash rack is solid to prevent debris from entering into the fish ladder. With the Wanapum Reservoir at the current elevation (558'-562'), the solid plating is not working, due to being above the surface of the river, and Grant PUD is experiencing high accumulations of debris within the fish ladder. To preclude this from happening, Grant PUD will install an additional plate of steel, which will overlap the current solid plate on the outside of the trash rack. This new temporary plating will decrease the current opening from 6' to 3', and will be removed prior to the next interim refill stage and/or back to normal pool (571.5'). Truscott said that due to the modification, some increase of velocity can be expected, and questioned if it would create an issue with fish exiting the ladder. Carlon replied that a NMFS engineer did review the modifications, but didn't think there would be an issue unless full pool isn't reached and thousands of fish have to be passed through the space.

**VI. 2014 Survival/Behavioral Studies Final Reports (C. Dotson)** – “Regarding the study titled “Behavior and Survival Analysis of Juvenile Steelhead and Yearling Chinook Salmon through the Priest Rapids Project in 2014”, Dotson said that all the comments received were addressed and have been incorporated into the final report. A hard copy as well as a CD of the final report will be distributed sometime within the next two weeks.

**VII. NNI Funding Proposal – Barkley Irrigation Company Permanent Point of Diversion Change and Pressurization – Construction, Justin Yeager, NMFS/Habitat Subcommittee Member (D. Rohr)** – Rohr distributed this proposal to PRCC members on January 22<sup>nd</sup>.

Yeager joined today's meeting to explain that in February 2014, the PRCC Habitat Subcommittee (HSC) approved \$299,380.00, for the engineering and design of a pressurized system for the Barkley Permanent Point of Diversion (POD) project. Trout Unlimited (TU) is now requesting \$699,999.00 for construction of the pressurized system. At the January 15, 2015 HSC meeting, members agreed to fund \$350,000 of the total amount, as well as to ask the PRCC for the remaining balance from the No Net Impact Fund. Yeager stated that the Bonneville Power Administration (BPA) has been asked to fund 1.3 million, and that funding looks promising. TU will be notified in March if BPA funding will be awarded.

Yeager explained that the objective of this project is to eliminate and reduce mortality of listed species in the mainstem Methow River, the Barkley Irrigation Company diversion side-channel, and within the first two miles of the Barkley Ditch. This is important because historically mortality was potentially caused by excavation of the river bed in the side channel, and with the tail out of the Barkley pool, in order to create sufficient water for irrigators on the Barkley Ditch. Mortality also occurs upstream of the fish screen on the current system, which is over 0.5 mile downstream of the headgate, and the open canal attracts juvenile fish. Annually, this reach of the ditch has been de-fished by WDFW at the end of the season, but it is difficult to capture all fish and there is still direct mortality each fall. Juvenile spring Chinook, steelhead, adult bull trout and high numbers of Pacific Lamprey ammocoetes are found in the canal during salvage operations each fall.

Aside from the elimination of stranding and mortality caused from annual excavation, other project benefits of moving the POD downstream include the reconnection of Bear Creek to the mainstem Methow River, improvement of instream flow by over 26 cfs for 2 miles of the mainstem Methow River and side channels, permanent enhancement of instream flows by 6-10 cfs by improving the efficiency of the Barkley irrigation system, as well as enhancing instream flows up to an additional 16 cfs through savings from the new pressurized pump station and on-demand irrigation system.

After an in-depth discussion, PRCC members asked Yeager to answer the following questions:

- Will the pressurized system accommodate the full 26 cfs or 16 cfs?
- Will there be any expansion of irrigators or irrigated acres?
- Is water savings achieved through extra head or by discontinuance of canal leakage?
- What assurance is there that the full 26 cfs won't be extracted?
- Has property for the site of the new pump station been purchased?
- Will reconnection of Beaver Creek ensure perennial flow?
- Does Beaver Creek discharge directly into the main-stem Methow River?

**VIII. Affirmation of Approval for SOA 2014-04, Change Sockeye Study from Year 2016 to 2015 (D. Rohr)** – Rohr reported that during the December 16, 2014 PRCC meeting, SOA 2014-04 was approved subject to approval of Tom Skiles and Kirk Truscott. Rohr communicated with Skiles and Truscott and received their approval. Accordingly, approval of SOA 2014-04 was affirmed by the PRCC.

**IX. 2015 Steelhead/Sockeye Study (C. Dotson)** – On 18 December 2014, the PRCC received the Draft 2015 Steelhead/Sockeye Study for their review. Truscott asked that Dotson review the third full paragraph of Section 3 – Site Description, 3.1 Wanapum Dam.

Dotson explained that the 2015 Steelhead/Sockeye Study will closely follow that of the 2014 Steelhead/Chinook Study. The acoustic-tag methods used to monitor tagged fish at the various detection sites in 2015 will be near parallel to those employed at Wanapum and Priest Rapids dams in 2014, and similar to those employed in 2004 and 2006-2010. Because flow and operational conditions at Wanapum Dam in 2014 were not normal, Truscott asked if data collected in 2014 should be used as a metric in the evaluation of performance standards of the three consecutive year average. Carlon reminded members that previously they had agreed to treat 2014 as part of the three consecutive years of performance standards, as long as survival was met, and it was, with a project survival rate to 86.5%. Grant PUD engineers estimate that river levels will be near normal when fish show up this spring. Truscott said that if Wanapum Reservoir is back to full pool for the next two years of survival evaluations and 2014 results are as good as or better than the other two years, that he probably wouldn't have a problem including 2014 in the three year average. Results of the 2014 Priest Rapids Reservoir would be included because water levels remained the same in all three years. PRCC members approved the 2015 Steelhead/Sockeye Study Plan.

**X. Discussion of Joint Meeting with Habitat Subcommittee (D. Rohr)** – In December 2013, the PRCC and PRCC Habitat Subcommittee met in Cle Elum for a joint meeting. At that time, a commitment was made to hold an annual joint meeting to allow discussion of upcoming projects in which NNI funds might be requested. PRCC members agreed to the benefit of a joint meeting. Rohr will arrange a joint meeting between the PRCC and PRCC Habitat Subcommittee.

- XI. **Potpourri (D. Rohr)** - Rohr reported that WDFW has recommended to their commission that stellar sea lions in the Columbia River be removed from the state's threatened species list. Additionally, Rohr commented that Curt Dotson and Chuck Berrie, Grant PUD Assistant General Manager, will be giving a presentation on avian predation and juvenile fish survival studies at the NWPCC meeting on February 10, 2015, in Portland.
- XII. **Updates**
- A. **Inland Avian Predation Activities (Goose Island / NW Rocks Follow Up)** (C. Dotson) – Annual report is expected in February.
  - B. **Hatchery Activities** (T. Dresser)
    - 1. **Carlton Acclimation Facility** – Nothing to update.
    - 2. **Nason Creek Acclimation Facility** – Nothing to update.
    - 3. **White River** – Nothing to update.
    - 4. **PR Hatchery Modifications** – Nothing to update.
    - 5. **Penticton Hatchery** – Nothing to update.
  - C. **Hatchery Permits (Section 10 for Summer Chinook and Section 7 Consultation for Bull Trout)** – Nothing to update.
  - D. **NNI Funded Projects**
    - 1. **2014 Real Time Research Avian Study (C. Dotson) – Including “Comprehensive Assessment of Total Smolt Mortality in Relation to Avian Predation on the Mid- and Lower Columbia River: Spatial and Temporal Analysis of Reservoir-Specific Smolt Losses”** – The data from this work has been completed and will be presented as part of the annual report coming out in the next month or so.
    - 2. **2015 Real Time Research / Oregon State University – “Evaluation of Foraging Behavior, Dispersal, and Predation on ESA-listed Salmonids from the Upper Columbia River by Caspian Terns Displaced from Managed Colonies in the Columbia Plateau Region” (C. Dotson)** - Nothing to update; ongoing.
    - 3. **Supplementary Tags and Tagging for Assessment of Predation Losses of Subyearling Chinook Salmon in the lower Hanford Reach and Upper McNary Reservoir (C. Dotson)** – Real Time Research collected tags from subyearlings tagged in the Hanford Reach and McNary forebay to determine the effect of bird colonies on subyearling Chinook. They found that 8.2% of subyearling tags were found in these areas and that lower in the system, pelicans are shown to also be taking subyearlings. This report will be distributed after it is put into text format.
    - 4. **Upper Columbia Fish Screen Monitoring Program Phase I Contract Extension (J. Korth)** – Nothing to update.
    - 5. **Upper Columbia Fish Screen Monitoring Program Phase II** – (J. Korth) – Nothing to update.

6. **Lower Wenatchee Instream Flow Enhancement Project Phase II** – (J. Korth) – Nothing to update.
  7. **Mid-Columbia River Intake Screen and Diversion Assessment** – (T. Dresser, J. Korth) – Nothing to update.
  8. **Methow Valley Irrigation District (MVID) Instream Flow Improvement Project** (T. Dresser) – Nothing to update.
- E. **Committee Reports** (D. Rohr) – Rohr distributed via email.
- F. **NNI and Habitat Funds Report** (D. Rohr) – On February 14<sup>th</sup>, annual funds will be deposited into all Habitat Funds. NNI Fund 601 - \$1,944,780.95, Habitat Supplemental Fund 602 - \$1,029,110.58, and Habitat BiOp Fund 603 - \$367,582.44.
- XIII. **Review of Next Month’s Agenda Topics** (D. Rohr) – To be determined.
- XIV. **Next Meeting** (D. Rohr) – February 25, 2015, 9:00 a.m., Location in the SeaTac area is to be determined. Carlon asked if members are still alright meeting in Seattle or if they would like to relocate to Eastern Washington. Members agreed to continue meeting in Seattle.



Draft Study Plan for the  
Estimation of Juvenile Steelhead and Sockeye Salmon  
Survival through the Priest Rapids Project in 2015

Prepared by:

Public Utility District No. 2 of Grant County  
P.O. Box 878  
Ephrata WA, 98823

December 2014

## 1.0 Introduction

The Priest Rapids Project (FERC No.2114) is owned and operated by Public Utility District No. 2 of Grant County (Grant PUD). The project includes two hydroelectric developments, Wanapum and Priest Rapids dams.

On April 17, 2008 the Federal Energy Regulatory Commission (FERC) issued its Order Issuing New License for the Priest Rapids Project to Grant PUD. Incorporated into the New License was Term and Condition 1.1 – NMFS 2008 Biological Opinion for the Priest Rapids Project (adapted from Action 1, NMFS 2004) and 401 Water Quality Certification Section 6.4.6.a.

*FERC shall require Grant PUD to make steady progress toward achieving a minimum 91% combined adult and juvenile salmonid survival performance standard at the Priest Rapids and Wanapum developments (i.e., each dam). The 91% standard includes a 93% project-level (reservoir and dam) juvenile performance standard. NMFS recognizes that it is not currently possible to measure the 91% combined adult and juvenile survival standard. Grant PUD shall therefore continue to conduct dam and reservoir smolt survival studies, evaluating progress toward meeting 93% juvenile Project passage survival. This standard can be measured at each development individually, or as a composite of survival at the two developments.*

*NMFS recognizes that the juvenile standard has already been achieved for UCR spring-run Chinook salmon. FERC shall require Grant PUD to at least maintain this level of survival. FERC shall ensure that Grant PUD achieves the juvenile standard for UCR steelhead, as measured after 3 consecutive years of evaluation, by 2013. Grant PUD can compensate for a failure to achieve the performance standard at one of its developments by exceeding the performance standard at the other development (i.e., at a minimum, by the same percentage amount below the survival performance standard at the development failing to meet performance standards). If Project survival exceeds the minimum combined juvenile and adult performance standard specified above, as measured per the specifications listed below, off-site mitigation obligations can be reduced by a commensurate amount.*

Section 11.2 of the Priest Rapids Project Salmon and Steelhead Settlement Agreement (Settlement Agreement), which was also incorporated into the New License, states that

*Grant PUD, in consultation with the PRCC, shall develop fish passage programs and operational measures designed to achieve the juvenile survival performance standards specified in Action 1 of Appendix A for the purpose of achieving NNI as applied to sockeye in the Project area.*

In 2003-2005, Grant PUD released radio and PIT-tagged juvenile anadromous salmonids (e.g., yearling Chinook) as part of the continuing effort to monitor and evaluate survival of fish migrating through the Priest Rapids Project (Project) (Anglea et al. 2004, 2005a and 2005b). Acoustic tag studies were first conducted in 2004 and were used in biotelemetry studies throughout the Project in 2006-2011 and 2014 (Timko et al. 2007 and 2008; Sullivan et al. 2009; Timko et al 2010 and 2011; Thompson et al 2012; Hatch et al 2014 *in review*). Grant PUD's proposed juvenile salmonid survival and behavior studies for 2015 are designed to provide relevant information and empirical evidence on survival rates and behavior of run-of-river steelhead and sockeye as they migrate through the Priest Rapids Project with the use of acoustic-tag technology.

Meeting survival performance standards for juvenile steelhead in the Project has been a challenge for Grant PUD. Grant PUD has implemented operational measures to increase fish passage survival at each of the dams and new bypass structures have been developed. At Wanapum Dam, a newly constructed fish bypass, which began operating in the spring of 2008, has collected up to almost 80% of juvenile steelhead passing at this dam and has

been shown to provide the safest downstream passage route for smolts (survival is nearly 100%) (Sullivan et al. 2009; Timko et al. 2010; Timko et al. 2011; Hatch et al. 2014 *in review*). At Priest Rapids Dam, prototype top-spill bulkhead testing was conducted between 2006 and 2010; the new bypass was constructed and operational in the spring of 2014. Performance standards for steelhead were evaluated for three consecutive years (2008-2010), and as outlined in the NMFS 2008 Biological Opinion (BiOp), must average 86.49% or higher to meet the licensed agreements. Performance standards for steelhead in 2008-2010 was 81.05%, which fell short of the performance standard goals by nearly 5%. The 2014 study marked the first year in which the Project survival standard (86.49%) was met for steelhead, estimated at 89.34%; projects conducted in 2008 (82.76%), 2009 (83.09%) and 2010 (77.29%) all failed to meet this standard. In 2015, juvenile steelhead survival performance standards will continue to be measured as Grant PUD strives to meet a three-year consecutive average (2014-2016) that meets or goes beyond the minimum Project performance standard goal of 86.49%.

Performance standards were evaluated for sockeye in 2009 and 2010. In both years, sockeye salmon met and exceeded Project survival standards (92.10% and 91.14%, respectively) with a two year average of 91.6%. Thus, a decision was made by the PRCC to wait until the Priest Rapids Fish Bypass was constructed and operational before conducting a third (non-consecutive) study that would also serve as the five-year 'check-in'. In 2015, the proposed study plan includes the evaluation of sockeye survival and serves as the described third year of monitoring Project passage metrics and as the five-year 'check-in' for sockeye salmon throughout the Project as outlined in the NMFS 2008 BiOp, Priest Rapids Project Salmon and Steelhead Settlement Agreement (SSSA 2006) and associated Priest Rapids Coordinating Committee (PRCC) Statement of Agreement(s) (SOA) (PRCC SOA 2011-01, SOA 2011-06 and SOA 2013-09).

## 2.0 Objectives

This study plan describes Grant PUD's proposal to conduct survival and behavior studies at Wanapum and Priest Rapids dams and reservoirs during the spring smolt out-migration for the year 2015 using acoustic-tag tracking techniques. The following tasks will be addressed:

Task 1) Estimate development (one dam and one reservoir) survival for steelhead and sockeye smolts passing through the Wanapum and Priest Rapids developments, using the paired-release model;

Task 2) Estimate fish passage efficiency (FPE) through the bypass and relative route-specific survival for steelhead and sockeye smolts at Wanapum and Priest Rapids dams;

Task 3) Estimate migration rate, forebay residence times, and tag detection efficiency of steelhead and sockeye smolts through the Wanapum and Priest Rapids developments; and

Task 4)<sup>1</sup> Continue to support the evaluation of avian predation impacts through the recovery of PIT tags at avian nesting colonies on the Mid-Columbia Plateau with collaborative efforts between Grant PUD and Real Time Research in conjunction with NOAA Fisheries, USGS-Oregon Cooperative Fish and Wildlife Research Unit, and Oregon State University.

## 3.0 Site Description

### 3.1 Wanapum Dam

Wanapum Dam is located on the Columbia River at river mile (RM) 416, 19 miles upstream of Priest Rapids Dam, and 38 miles downstream from Rock Island Dam. In February of 2014, a fracture in the Wanapum Dam spillway was discovered; prompting a reservoir drawdown to 28 ft below normal maximum forebay elevation (570' above Mean

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<sup>1</sup>The inclusion of Task 4 into the 2015 survival study is still in review by the PRCC and considered 'pending' PRCC approval.

Sea Level). In response to the positive remediation efforts, forebay elevation has since raised and is planned to operate at 570 ft during the 2015 study.

The dam has a 1,540 ft long powerhouse, oriented approximately with river flow, and an 832 ft long spillway at approximately a 45° angle to flow. The powerhouse has 10 Kaplan turbine units, numbered from north to south, with a combined generating capacity of 1,038 megawatts. There are additional intake structures for six potential future units. Each turbine unit has three intake slots, designated A, B and C from north to south.

The Wanapum Dam spillway contains 12 tainter gates, each 65-ft tall by 50-ft wide. These gates open at the bottom to produce submerged spill at a depth of 65 ft. It is 20 ft wide, and normally spills up to 10 ft of surface water. The sluiceway opens from the top, as opposed to the tainter gates of the spillway. The normal maximum discharge of the sluiceway is 1,920 cfs.

The Wanapum Fish Bypass (WFB) is located at Future Unit 11 (Figure 1). In 2014, due to the lowered forebay elevation, the WFB endured suboptimal operations at only 4-6 kcfs of surface flow. The since raised forebay elevation and planned forebay operation elevation of 570 ft will allow the WFB to return to the optimal operation at 20 kcfs during the 2015 downstream migration run-timing.



Figure 1. Graphic diagram of the Wanapum Fish Bypass (WFB) showing the downstream exit.

### 3.2 Priest Rapids Dam

Priest Rapids Dam is located at RM 397 and is 105 miles upstream of McNary Dam. The dam is 19 miles downstream of Wanapum Dam and approximately 70 miles upstream from the confluence of the Snake and Columbia rivers. Normal maximum forebay elevation is 488 ft above MSL and the normal operating head is 78 ft.

The dam has a 1,025 ft long powerhouse located at the northeast end, oriented approximately perpendicular to river flow, and a 1,152 ft long spillway on the southwest end of the dam. The powerhouse has 10 Kaplan turbine units, numbered from west to east, with a combined nameplate generating capacity of 956 megawatts. Each turbine unit has three intake slots, designated A, B, and C from east to west.

The spillway contains 22 tainter gates, each 50 ft tall by 40 ft wide. These gates open at the bottom to produce submerged spill at a depth of 50 ft. Each spill bay passes an average of 8-10 kcfs under normal operating conditions. The Priest Rapids Fish Bypass (PRFB) is constructed at spillbays 20, 21, and 22 and operates as three independent surface-spill gates, each passing up to 9 kcfs (Figure 2).

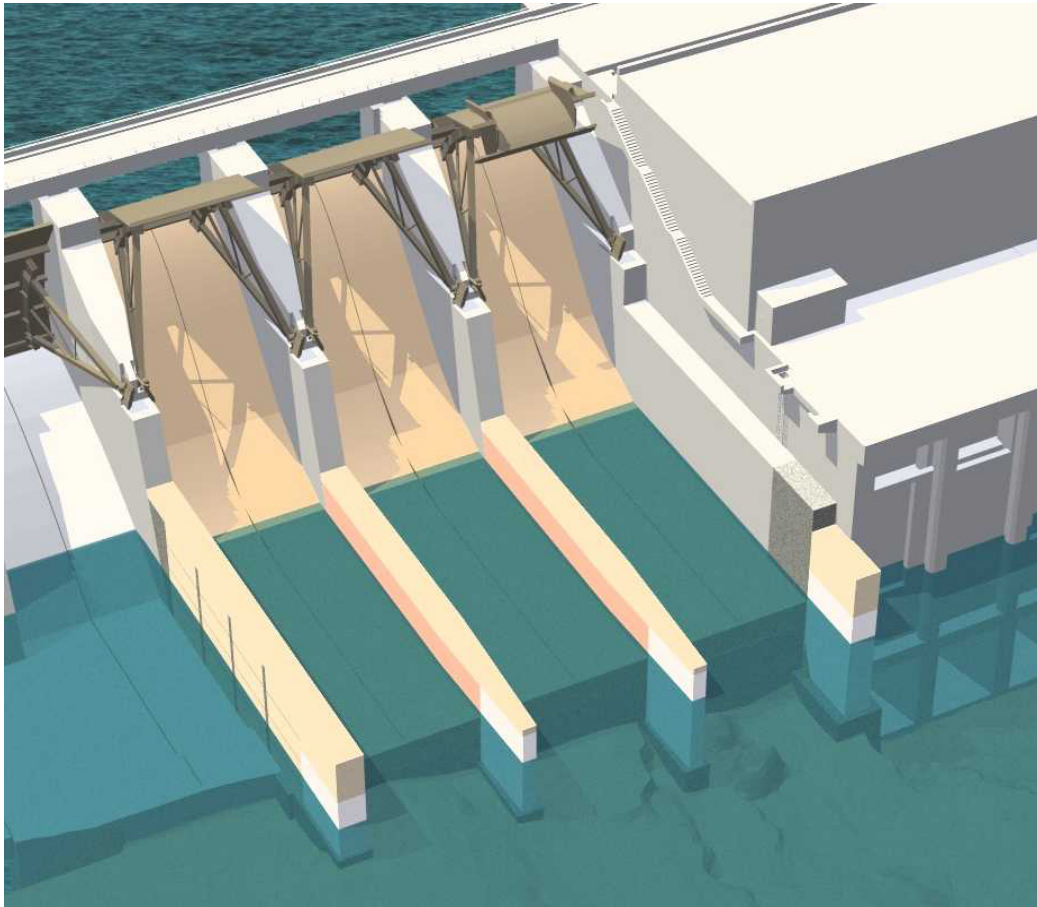


Figure 2. Graphic diagram of the Priest Rapids Fish Bypass showing the three bays (spill bays 20, 21 and 22 – left to right) next to the powerhouse

## 4.0 Methods

### 4.1 Study Design

The acoustic-tag methods used to monitor tagged fish at the various detection sites in 2015 will be near parallel to those employed at Wanapum and Priest Rapids dams in 2014 (Hatch et al. 2014 *in review*), and similar to those employed in 2004 and 2006-2010 (Robichaud et al. 2005; Timko et al. 2007 and 2008; Sullivan et al. 2009; Timko et al 2010 and 2011).

#### 4.1.1 Task 1: Estimate Project Survival for Steelhead and Sockeye Smolts

Wanapum and Priest Rapids project (dam and reservoir) survivals will be estimated using the paired-release model, following the methods of Skalski et al. (2005). The general paired-release methodology study design to estimate project survival at Wanapum and Priest Rapids dams in 2015 is consistent with the survival and behavioral studies conducted at Wanapum and Priest Rapids dams in 2008, 2009, 2010, and 2014 (Skalski et al. 2009a, 2009b, 2010, and 2014 *in review*). Paired releases of an estimated 650, 550, and 500 run-of-river steelhead and sockeye smolts tagged with acoustic transmitters (JSATS tag, *Biosonics Telemetry Model L-AMT-2.1*) will be released in each of the tailtraces of Rock Island, Wanapum and Priest Rapids dams respectively (Figure 3). There will be up to 22 replicates at each site (Table 1).

Similar to the 2014 study, the Wanapum Dam development (dam and reservoir) survival fish will be monitored at Crescent Bar, Sunland Estates (RM 426), Wanapum Dam (RM 416) and at two sites downstream of the dam that were used during the 2014, 2010, 2009, 2008, 2007 and 2006 studies; one of these near Mattawa at RM 409 and the other at Priest Rapids Dam (RM 397) (Figure 3).

Figure 3. A map depicting the locations of Wanapum and Priest Rapids dams, along with each acoustic array and release location through-out the mid-Columbia River, WA.

Consistent with 2014, the Priest Rapids development (dam and reservoir) survival fish will be monitored by two sites downstream of the dam; at Vernita Bridge (RM 388) and in the Hanford Reach near White Bluffs (RM 369) (Figure 3). The Vernita Bridge array will be located 11 miles downstream from Priest Rapids Dam, and the White Bluffs site 31 miles downstream. The furthest downstream arrays, Hanford 1 and 2, located 58 river miles from Priest Rapids Dam, just upstream of the Yakima River confluence, in 2014 plan to also be monitored in 2015.

The majority of array configurations will be identical to 2014 setups, where all 'mid-river' sites will consist of four receivers aligned perpendicular to flow in overlapping detection ranges (Hatch et al 2014 *in review*). The Wanapum and Priest Rapids dam forebay configurations are the only exceptions; these will differ from 2014 (Figure 4). There are two primary causes for this alteration. First, at the Wanapum forebay, the raised elevation allows additional deployment options; second, at the Priest Rapids forebay, the lack of three dimensional tracking translates to less receivers needed.

To verify the operating life of the tags, a battery-life test of approximately 50 tags will be conducted. These tags will be held in continuously cycled river water in a holding tank, maintained at ambient river temperatures to simulate environmental conditions. It is of note that the exact number of test tags is still in review by Blue Leaf Environmental and will be based on the total number of manufactured tag lots that are delivered to the project by BioSonics Telemetry. Once this information is provided, Blue Leaf will collaborate with Grant PUD and Columbia River Research for statistical guidance; thus, these quantities are subject to change.

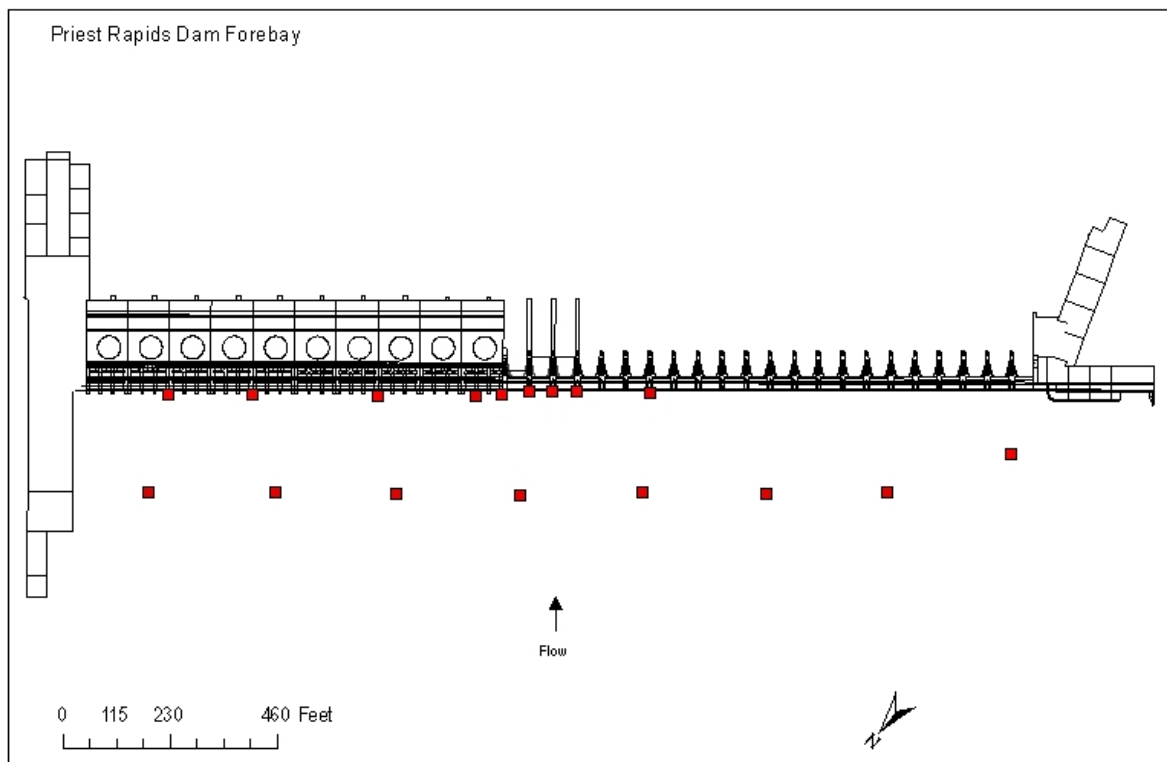
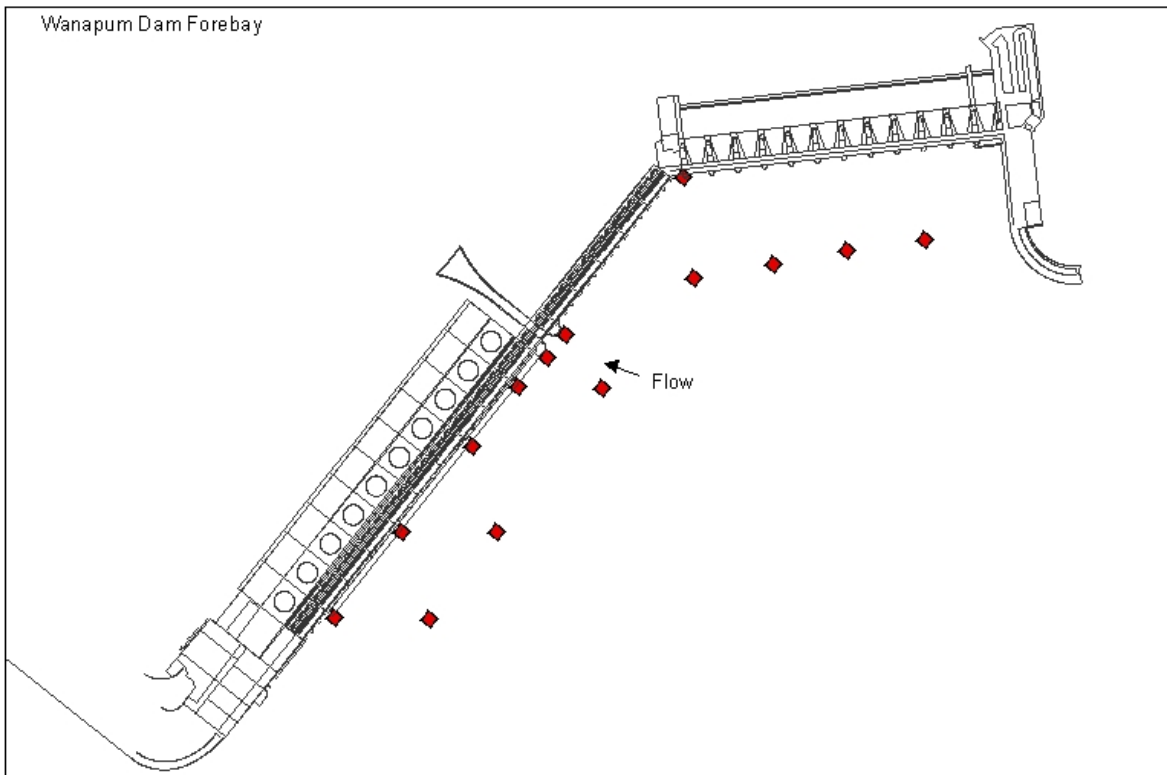


Figure 4. Wanapum (top) and Priest Rapids (bottom) dams with accompanying acoustic receiver (red dot) configurations.



Table 1. Estimated number of steelhead and sockeye salmon to be tagged and released by Grant PUD for the 2015 Wanapum and Priest Rapids dams acoustic-tag studies and tag life test.

Release Location	Steelhead	Sockeye
Rock Island Dam Tailrace	650	650
Wanapum Dam Tailrace	550	550
Priest Rapids Dam Tailrace	500	500
Tag Life Tests	25	25
<i>Total Tags</i>	<i>1,725</i>	<i>1,725</i>

**4.1.2 Estimate fish passage efficiency (FPE) through the bypass and route-specific survival for steelhead and sockeye smolts at Wanapum and Priest Rapids dams**

The Fish Passage Efficiency (FPE) at the Wanapum Fish Bypass (WFB) and Priest Rapids Fish Bypass (PRFB) will be determined using the methods employed in 2014; following individual route passage assignments, proportions per route can be identified and FPE per species estimated. Route-specific survival will follow the methods from Skalski et al. (2005), where survival will be individually estimated for the powerhouse, spillway, and surface bypass.

**4.1.3 Task 3: Estimate Migration Rate, Detection Efficiency, and Arrival Distribution of Downstream Migrants**

The migration rates, detection efficiencies, and arrival distributions of downstream migrating smolts for both species will be estimated for Wanapum and Priest Rapids dams.

**4.1.4 Task 4<sup>2</sup>: Continue supporting the evaluation of avian predation impacts through the recovery of PIT tags at avian nesting colonies on the Mid-Columbia Plateau with collaborative efforts between Grant PUD and Real Time Research in conjunction with NOAA Fisheries, USGS-Oregon Cooperative Fish and Wildlife Research Unit, and Oregon State University.**

All study fish will be double-tagged with an acoustic tag (JSATS) and a passive integrated transponder (PIT) tag. Post-nesting season, Caspian tern colonies at Goose Island (Potholes) and Crescent Island (McNary forebay) and other colonies determined by RTR and OSU will be scanned for PIT tags deposited during the 2015 nesting season. Any detected PIT tags will be compared back to the master list of PIT tags released during this study. Additionally, by using acoustic tag detection histories, a “last detect” will be used to determine the approximate stretch of river within the Project where the predation event likely occurred.

**4.2 Acoustic-Tag Receiver System Design**

*Teknologic Model 10967 Autonomous Receivers* will be used to monitor and record the presence of acoustic tagged fish. At each of the dams and ‘in-river’ arrays, offshore acoustic receivers will be deployed from research boat and

<sup>2</sup> The inclusion of Task 4 into the 2015 survival study is still in review by the PRCC and is officially considered as ‘pending’.

anchored to the river bottom with specialized concrete anchors. The anchors will be held by a metal ring to which will serve at the connection/release point for acoustic releases. Acoustic releases (*InterOceans Systems Model 111*) will be positioned between the concrete anchors and the autonomous receivers. Upon completion of the study, or during in-season data collection, a unique acoustic signal will be broadcast (*InterOceans Systems Model 1100E Acoustic Command and Ranging Unit*) to each acoustic release device. This will trigger each device to release from the anchors and float to the surface for recovery. Acoustic receivers will be collected and subsequently downloaded.

#### 4.2.1 Acoustic Transmitters

Consistent with the 2014 study, the Lotek *Model L-AMT-1.421* JSATS acoustic transmitter (11.1 x 5.5 x 3.7 mm, 0.42 g in air, three second burst), and Biomark 12mm PIT tag, will be surgically implanted into run-of-river steelhead, and sockeye smolts. After tags are systematically selected from each manufactured tag lot and randomized for the tag life study, the remaining tags will be mixed and randomly selected from for the duration of the study.

### 4.3 System Deployment

The JSATS Autonomous Receiver systems and equipment require installation and field testing at each site. Contractor will be responsible for these installations with the assistance of Grant PUD personnel. The installation of some of the hydrophones will require Grant PUD mechanics and divers.

### 4.4 Fish Handling

#### 4.4.1 Fish Collection and Holding

Tagging of the study fish will be conducted by LGL Limited (LGL, a sub-contractor to Blue Leaf); LGL will handle, tag, hold and release all study smolts. Fish collection, handling and tagging will follow the procedures employed during the 2008-2010 and 2014 acoustic-tag tracking studies conducted at Wanapum and Priest Rapids dams (Sullivan et al. 2009, Timko et al. 2010, Timko et al. 2011, Thompson et al. 2012, Hatch et al. 2014 *in review*). Each day test fish will be salvaged from the powerhouse gateway slots through "gateway dipping" operations conducted by Grant PUD crews. All gateway dipped fish will then be transported by truck to the west bank of Wanapum Dam for sorting. After initial sorting in a light MS-222 solution by species, size, and physical condition, selected fish will be held in recirculating ambient river water for 24 hour prior to surgery. Fish will not be fed while being held.

#### 4.4.2 Tagging

The surgical implantation procedures used will be based on the methods outlined in Adams et al. (1998) and Liedtke et al. (2012a, 2012b) that were used during the acoustic-tag studies at Wanapum and Priest Rapids dams conducted in 2008-2011 and 2014 (Sullivan et al. 2009; Timko et al. 2010; Timko et al. 2011; Thompson et al. 2012, Hatch et al. 2014 *in review*).

Immediately before surgery, fish will be transferred to an anesthetic bath containing tricaine methanesulfonate (MS-222, 60-80 mg/L) until equilibrium is lost. Anesthetized fish will be measured to the nearest millimeter and weighed to the nearest tenth of a gram before being placed on a Plexiglas surgical table. The surgical table will be soaked with Stress Coat (*Aquarium Pharmaceuticals, Inc. Chalfont, PA*) to minimize scale loss and maintain the exterior mucous coat. Fish will be placed ventral side up on the surgical pad, and their gills will be continuously flushed with anesthetic solution fed through a tube placed in the mouth of the fish. About 1 min prior to completion of surgery, the flow of anesthetic solution will be replaced with fresh river water to start the recovery process. River water supplied from within the fish ladder entrance will serve as the water source during tagging operations.

To implant the transmitter in the fish, an incision will be made 3 mm away from and parallel to the mid-ventral line starting about 3 mm anterior to the pelvic girdle. The incision will be only deep enough to penetrate the peritoneum (Adams et al. 1998). The transmitter will be implanted with the transducer (the ceramic tip of the tags) pointing

towards the head of the fish. Tags will be positioned horizontally directly under the incision. The incision will be closed with interrupted, absorbable sutures evenly spaced across the incision. Surgical equipment will be disinfected with a diluted germicidal solution after each fish.

#### **4.4.3 Post-Tagging Recovery**

Immediately after surgery, tagged fish (2 fish per bucket) will be moved to 5 gal oxygenated recovery buckets where they will be monitored until they gain equilibrium and begin regular swimming and breathing movements. Recovery buckets will then be placed on shelves in a recovery room, adjacent to the tagging trailer. Each bucket will have an opening in the lid that allowed for continuous water flow, and a PVC overflow spout. Dissolved oxygen and water temperature will be measured twice a day. The recovery room will be supplied with two redundant pumps in case of pipe blockage in one. Water flow to the recovery buckets will be checked at least twice a day.

Approximately 24 hr after tagging, the tagged fish will be moved into fly tanks supplied with ambient river water. All species will be held and released in separate fly-tanks (i.e., steelhead and sockeye will not be held or transported and released in the same fly-tank). There is an external "fin", and the bottom of the tank is sloped towards an outflow hole (in order to ensure that fish slide from the tank upon release). Fish will be held in the fly tanks for several hours, up until their release into the river; when ambient river water is not be circulated through the tanks then supplemental oxygen will be provided.

#### **4.4.4 Release Procedures**

Approximately 2 hr prior to departure from the Wanapum Dam holding site, DO and water temperature will be measured in the fly tanks. Measurements will be taken immediately before and immediately after the tagged fish are transferred into the fly tanks. Acoustic tags in all release groups will also be monitored for failure rates prior to departure for release.

For all releases, water flow to the fly tank will be shut off 10 min prior to departure. An oxygen tank, attached to each fly tank will provide oxygenation to the water during transport. Fly tanks will be attached to a helicopter by a long cable, and will be transported to their release site. The helicopter will lower the fly tank to within about 1 m of the water, and will trigger a release mechanism that will open a valve near the bottom of the fly tank, causing the fish to pour out into the river. It will take approximately 60 sec for the fly tank to be emptied into the river.

### **4.5 Data Analysis**

Upon completion of the study migration period, detection data from recovered receivers will be downloaded via the JSATS vendor's software and be used to create export files which will be uploaded to the Grant PUD project SQL Server database. Once the data is on the SQL Server, duplicate or false records (i.e., acoustic noise) will be filtered using the methods outlined by Thompson et al. (2012) and the detection data will then be loaded into tables and evaluated for accuracy. Some quality control validations for steelhead and sockeye smolt positive detections will include multiple data validation procedures based off of the US Army Corps of Engineers protocols used ubiquitously in JSATS research. Quality control will also include evaluating normal downstream movement versus other movement (i.e. upstream movement), and identifying recaptured smolts (fish that were released, traveled through the Priest Rapids Reservoir, and then were recaptured via gateway dipping at Priest Rapids Dam and transported to back to the Wanapum sorting facility).

### **4.6 Statistical Analysis**

Statistical analysis support will be provided by Dr. John Skalski and will consist of the tasks that are described below. The intent of these tasks is to provide integrated statistical support from study design through data analysis, and interpretation of results. These tasks will be coordinated with the field efforts of consultants and Grant PUD.

The statistician will perform the actual survival analysis using a modified Cormack-Jolly-Seber analysis to estimate project survival using the acoustic-tag data (Cormack 1964, Jolly 1965, Seber 1965). Tests of model assumptions will be performed. Standard errors and confidence intervals will be provided for the estimated parameters. Estimates will be provided for each of the replicate release-pairs along with modeling to identify the most parsimonious (and most precise) model that adequately describes the data. Seasonal average will be computed along with associated standard error. Tests of assumptions will be based on Burnham tests 1-3 (Burnham et al 1987) along with Chi-square tests of mixing. Between year comparisons of survival estimates will be performed.

#### **4.7 Report Preparation**

The report based on the study described above will be written for Grant PUD. The report will address steelhead and sockeye survival and behavior at each of the dams and throughout the Project (Tasks 1-4 above).

### **5.0 Responsibilities**

#### **5.1 Consultant Responsibilities**

- Responsibilities will include collection of acoustic-tag data, data processing and analysis, and reporting.
- Direct the installation and retrieval of the autonomous receiver systems.
- Provide primary boat support for offshore receiver interrogations and secondary boat support for offshore receiver deployment and demobilization.

#### **5.2 Grant PUD Responsibilities**

- Grant PUD will provide equipment, software, material, services, and other support for the completion of this project to the extent; in a manner similar to provisions made during the course of Grant PUD's spring 2004, 2006–2011, and 2014 acoustic-tag studies.
- Grant PUD will supply personnel to perform the physical deployment and retrieval of autonomous receiver systems. Grant PUD will supply all divers, cranes, and mechanics required to deploy forebay systems.
- Grant PUD will provide primary boat support for offshore receiver deployment and demobilization.
- Grant PUD will supply office trailers to house JSATS-tag system electronics, computers, and personnel.
- Grant PUD will provide turbine and spill operational data for Wanapum and Priest Rapids dams for the data collection study period to consultant in a timely manner.
- Grant PUD will contract separately with Dr. John Skalski (Columbia Basin Research, University of Washington) for the statistician required for this study.

## 6.0 Schedule

The study described above will be conducted in the spring of 2015. It is anticipated that system deployment will begin as early as February and will be completed by April 15, 2015.

For the Project survival study, it is anticipated that releases of tagged fish will occur from approximately May 1 to June 1, further refinement of the release schedule is still pending actual run-timing. Data collection will occur until approximately June 25, 2015.

A draft report, including methods and results, is anticipated to be presented to Grant PUD by October 30, 2015. Once comments are received from Grant PUD and the PRCC on the draft report, within 60 days a final report will be provided to Grant PUD.

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PUBLIC UTILITY DISTRICT OF GRANT COUNTY  
**GENERAL OFFICE INVOICE**

**NAME** GCPUD TRUSTEE FOR HABITAT ACCOUNTS

Return to Treasury Ops  
**ADDRESS** PO Box 878, Ephrata, WA 98823

DATE	DESCRIPTION	AMOUNT																					
2/14/2015	Annual Funding to Habitat Accounts per Resolution No 7937 and Native Resident Fish agreement.	\$ 3,508,732.41																					
	<table border="0"> <tr> <td>NNI 96421601H</td> <td>\$</td> <td>1,944,780.95</td> </tr> <tr> <td>Habitat Supplemental 96421602H</td> <td></td> <td>1,029,001.58</td> </tr> <tr> <td>Habitat BiOp 96421603H</td> <td></td> <td>367,582.44</td> </tr> <tr> <td colspan="2"><b>Total PRCC Habitat Funds</b></td> <td><b>3,341,364.97</b></td> </tr> <tr> <td colspan="2">Native Resident Fish 96421604H</td> <td>127,367.44</td> </tr> <tr> <td colspan="2">Wildlife Management Plan 96421605H</td> <td>40,000.00</td> </tr> <tr> <td colspan="2"><b>Total Funding</b></td> <td><b>\$ 3,508,732.41</b></td> </tr> </table>	NNI 96421601H	\$	1,944,780.95	Habitat Supplemental 96421602H		1,029,001.58	Habitat BiOp 96421603H		367,582.44	<b>Total PRCC Habitat Funds</b>		<b>3,341,364.97</b>	Native Resident Fish 96421604H		127,367.44	Wildlife Management Plan 96421605H		40,000.00	<b>Total Funding</b>		<b>\$ 3,508,732.41</b>	
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<b>Total Funding</b>		<b>\$ 3,508,732.41</b>																					
	See attached worksheet for calculations.																						
	<b>UPON COMMISSION APPROVAL, ROUTE TO C. WEST, TREASURY</b>																						
	<b>TREASURY TRANSFER DUE 2/14/2015</b>																						
<b>TOTAL AMOUNT:</b>		<b>\$ 3,508,732.41</b>																					

Put Check Mark in Box if the above charge is for Services (1099 Applicable)

Cost Center	Project ID	Amount
9230	101699	\$ 3,341,364.97
9230	101794	127,367.44
9230	102393	40,000.00
<b>Extended</b>	<b>Approved</b>	

I certify under penalty of perjury, that the materials have been furnished, the services rendered or the labor performed as described herein, and that the claim is a just, due and unpaid obligation against the Public Utility District of Grant County

Signed: *[Signature]* Date: 1/20/2015 Approved: \_\_\_\_\_



**PRCC Habitat Subcommittee  
Project Specifications Sheet**

**Date Submitted:** January, 15<sup>th</sup> 2015

**Project Sponsor:**

**Aaron Penvose**  
**Trout Unlimited's Washington Water Project**  
**103 Palouse Street, Suite #14**  
**Wenatchee, WA 98801**  
**Telephone: 509-881-7689**  
**Email: apenvose@tu.org**

**Project Liaison:** Justin Yeager and Kate Terrell

**Project Title:** Barkley Irrigation Company Permanent Point of Diversion Change and Pressurization- CONSTRUCTION

**Project Type:** Instream Flow & Habitat Improvement: Permanent change in point of diversion change for Barkley Irrigation Company

**Location:**

Current: Methow River near Winthrop, Washington. The Barkley diversion is located in WRIA 48 on the Methow River within Section 12, T34N, R21E., W.M at approximate river mile 48.5, on river-left.

New: Downstream approximately 2 rivers mile from historic diversion side-channel on river-left. See attached map for bearings.

**Requested funding amount from PRCC Habitat Sub-Committee: \$ 699,620.00**

**Short description:**

The objective of this project is to eliminate and reduce mortality of listed species in the mainstem Methow River, the Barkley Irrigation Company (Barkley) diversion side-channel and within the first two miles of the Barkley Ditch. This is important because historically mortality was potentially caused by excavation of the river bed, in the side-channel and within the tail out of the Barkley pool in order to create sufficient water for irrigators on the Barkley Ditch. Additionally, each year mortality occurred upstream of the fish screen on the current system, which is over 0.5 mile downstream of the headgate and the open canal attracts juvenile fish. This reach of the ditch has been annually de-fished by WDFW at the end of the season, but it is difficult to capture all fish and there is still direct mortality each fall.

As the funders of the Design and Engineering component, Priest Rapids Coordinating Committee (PRCC) is aware that, Trout Unlimited's Washington Water Project (TU-

WWP) and our partners have successfully reached agreement with Barkley Irrigation Company to move their surface intake downstream and create a permanent pump station. All signs show great progress towards the solution that will reduce mortality, improve efficiency and provide the Barkley with a long term solution to their current irrigation infrastructure issues.

Fantastic cooperation with Barkley, TU-WWP, US Bureau of Reclamation (Reclamation) and the Methow Conservancy (MC), commensurate concurrence on a permanent solution has been made that will benefit both the irrigators and the ESA listed fish and Pacific lamprey. After dozens of complex meetings, numerous iterations of the alternatives analysis by BOR and hours of cooperative dialogue, a concluding decision was made in December 2013, which was cemented by the board of directors vote at the annual shareholder meeting in March 2014, all after a tour of the similar and successfully completed Lower Wenatchee Instream Flow (Pioneer) Project in Wenatchee. **The Barkley Directors have decided to move forward with a pressurized system downstream of their current diversion. The new system would be designed like the Pioneer, functioning on demand. The proposed system will deliver water under pressure to all shareholders from a new pumping facility, on a parcel directly adjacent to where the temporary pump station is currently located (Okanogan Parcel 3421240001) and will deliver water to the last Barkley shareholder. In addition to design and construction, this will require land acquisition of the property to move forward.**

**Project description:**

Historically, each July as the river began to approach summer low flows, the Barkley would use a large bulldozer; drive it up the side-channel (“cleaning it up along the way”) and ultimately creating a large earthen wing-dam (Exhibit A). This work has gone on for over 50 years and Barkley is permitted to do this work through a perpetual HPA with the State of Washington. The impact of this activity on threatened and endangered fish and other species of concern is significant.

Thanks to the support of the PRCC over the past three years, TU-WWP, Barkley and our project partners have worked to change their approach to irrigation. We have pooled resources and have eliminated mortality from side channel work and wing-dam construction in the river through the installation of the Barkley temporary pump-and-dump-station. However, Barkley continues to use the current diversion for as long as they can during the irrigation season, which still creates stranding behind the headgate forebay within approximately .5 miles of the ditch, annually. Juvenile spring Chinook, steelhead, adult bull trout and high numbers of Pacific Lamprey ammocoetes are found in the canal during salvage operations each fall. The temporary solution is very labor intensive and requires significant coordination. The Barkley partnership has provided enormous support to help improve the situation over the last two years and has resulted in minimized diversion impacts. However from a practical stand point, this is not a sustainable over the long term.

As such, the project partners and the Barkley have been working extensively on a long-term solution that will provide irrigators with reliable water and will not substantially increase costs to the company, thereby insuring viable irrigation and agriculture in the area served by the Barkley.

The ditch currently delivers water through a gravity system to users irrigating nearly 600 acres. The proposed project would replace the gravity diversion with a pressurized system. The goal of the Barkley project is to reduce diversion of water from the Methow River to increase summer flows while providing long term water reliability for the BIC and to allow future habitat improvement projects to proceed around the former diversion. These projects will enhance conditions for listed anadromous species including steelhead, spring Chinook, and bull trout.

Several design alternatives were considered, including a variety of pump options (both on-demand pressurized pipe and pump-and-dump), gravity-fed piping systems, and switching all users to a series of groundwater wells.

The pump-and-dump system would allow for removal of diversion structures but would also entail continued use of the open ditch and large quantity of water removed from the mainstem Methow River. Gravity-fed piping systems would eliminate some of the open ditch, but would still require a large quantity of water. Groundwater wells would generate water savings but require consensus from dozens of individual users, most of who are satisfied with their current method of water delivery.

In the end, the on-demand pressurized pipe made the most ecological, financial, and technological sense. The on-demand system generates the most water savings, requires minimal instream maintenance in the future, eliminates the use of the open ditch, creates the best habitat conditions for listed salmonids, and provides by far the most reliable, sophisticated, and maintenance-free irrigation delivery system. Furthermore, overall cost of proposed project implementation is comparable or less than the aforementioned alternatives. The BIC chose this option after being presented with all feasible alternatives and visiting a similar project implemented by TU for the Pioneer Water User's Association in 2013.

The new pump station is located on the east side of the Methow River approximately 1.5 miles downstream of the historic diversion. We are currently working with our design and engineer firm to develop the pump station details, including electrical controls, size and number of pumps, site grading and access, and piping required. In addition, we will be designing and installing mainline piping from the connection point with the pump station to the current ditch terminus near "Mill Hill" (see exhibit B). The existing ditch is estimated to be about 26,000 feet in length. Design and construction will include pipe type and sizes, route selection, road crossing details, turnouts, metering requirements, estimated annual pumping cost, etc.

The benefits:

- Eliminate mortality from annual excavation of the Barkley side channel and mainstem push-up dam by moving the point of diversion (POD).

- Eliminate stranding and mortality in the upper 0.5 miles of the Barkley ditch annually by moving the point of diversion and decommissioning the headworks.
- Reconnect Bear Creek to the mainstem Methow River by decommissioning upper 0.5 miles of the Barkley ditch.
- Improve instream flow by over 26 cfs for 2 miles of the mainstem Methow River and side channels by moving the POD downstream.
- Permanently enhance instream flows by 6-10 cfs by improving the efficiency of the Barkley irrigation system.
- Enhance instream flows by up to an additional 16 cfs through savings from the new pressurized pump station and on-demand irrigation system.

This project addresses impacts to habitat and reduces or eliminates harm and injury to individual fish of the following species and life stages:

- Upper Columbia River spring Chinook: adult holding, adult spawning, juvenile rearing
- Upper Columbia River steelhead: juvenile rearing
- Summer Chinook: adult holding and spawning
- Columbia River bull trout: adult and sub-adult holding and foraging
- Pacific lamprey: ammocoetes and possibly spawning areas
- Westslope cutthroat: adult foraging and juvenile rearing
- Coho salmon: juvenile rearing
- Also whitefish, suckers and sculpins

Past construction of a wing-dam and cleaning of the intake channel to divert water into the Barkley Ditch has impacted important habitat for adult spring Chinook pre-spawning holding and rearing habitat for juvenile salmon and steelhead. These impacts have occurred at the diversion wing-dam, in over 1,000 feet of Methow River side channel and within 2,500 feet of the Barkly canal, upstream of the fish screen, where the Barkley cleans and clears the ditch for water delivery, prior to the fish screen.

TU has made significant progress in moving this project towards final completion, including facilitating the selection of the preferred permanent solution to the Barkley diversion and irrigation supply. Once implemented, this solution will provide multiple benefits, including protection and restoration of habitat complexity, provide off-channel habitat and will reduce or eliminate the injury and mortality that occurs when the canal is turned off each fall; instream flow will increase by 20 cfs from the historic diversion to the new pump station; and provide substantial additional benefits from the conversion to a modernized, on-demand pump station downstream! Instream flow benefits will depend on instantaneous use by the Barkley, which will vary. Another noteworthy benefit of this project will be the reconnection of Bear Creek to the mainstem Methow River.

**Project cost:**

<b>Permanent POD Conversion Project Construction Cost</b>		
<i>Item</i>	<i>Description</i>	<i>TOTAL COST</i>
1	Pump Station, Intake Structure, Site Development	\$ 1,150,000.00
2	Pipeline	\$ 1,150,800.00
3	Tree Removal and Flume Demolition	\$ 103,000.00
4	Reconnecting Bear Creek and Headgate Demo	\$ 140,000.00
5	Engineering and Design Services (10% of Construction)	\$ 299,380.00
6	Operation and maintenance endowment	\$ 450,000.00
<b>Total</b>		<b>\$ 3,293,180.00</b>
Secured	Tributary Committee	\$300,000.00
Secured	PRCC	\$299,380.00
Secured	SRFB	\$723,732.00
Pending	PRCC	\$699,620.00
Pending	BPA	\$1,270,448.00
<b>Total Requested</b>		<b>\$699,620</b>

**Estimated Timeline:**

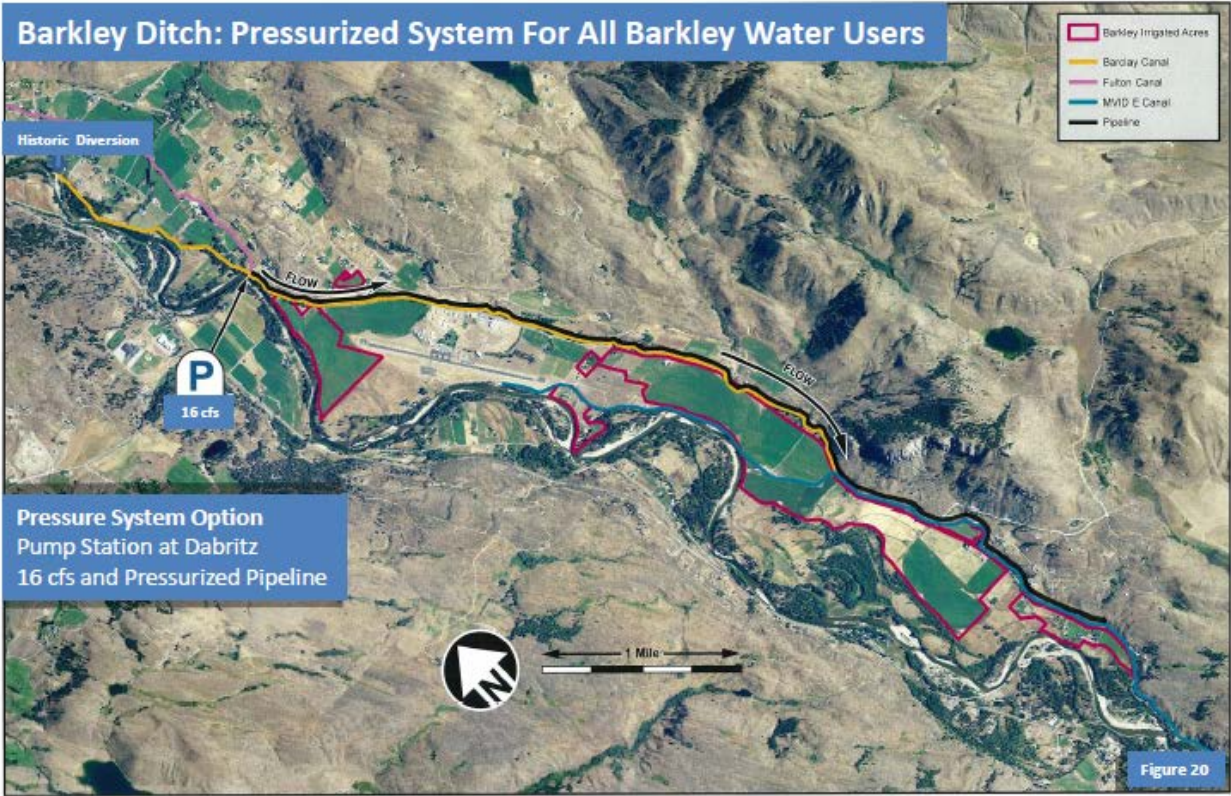
	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>
30% Design												X
Permitting					X							
80% Design				X								
Construction Start 2015										X		
Construction Completion 2016				X								

Attachments: Exhibit A – Wing-Dam Construction Photo  
 Exhibit B – Project Location Map  
 Exhibit C – Headworks photo

Exhibit A  
Wing Dam Construction



**Exhibit B**  
**Project Location**



**Exhibit C**



# Trash Rack at Wanapum Left-Bank Fishway Exit

The trash rack is in place at all times during normal fishway operation/fish passage season. The basic design is that the upper portion of the trash rack is solid to prevent debris from entering the fishladder exit pool. With the Wanapum Reservoir at the current elevation (558'-562'), the solid plating is not doing the job and we are experiencing high accumulations of tumble weeds, sticks, flotsam, etc. within the exit pool.

Grating/open area (in which fish pass through) at the bottom of the trash rack is 6' (top to bottom under normal operations). In this photograph, we can see that most of the opening is under the water surface (~5' 2").



To preclude debris loading into the fish ladder exit pool, Grant PUD will be installing an additional plate of steel, which would overlap the current solid plate on the outside of the trash rack.

This plating is temporary and will be installed and removed without a ladder outage. It would also be removed prior to the next interim refill stage and/or back to normal pool (571.5').

This new temporary plating would decrease the current opening from 6' to 3'.

NOTE: The reservoir level in photo is 561', which leaves a 10" gap for debris to enter. At 558' that gap opens to ~3' 10".



# Fishladder Exit Pool- Wanapum Left-Bank Fishway Exit (Debris Loading)

Example of the type of debris that is making it through the trash rack at the Wanapum Fishways and accumulating in the fish ladder exit pools. Concern is that this type of debris could make it down to the crowders in front of the fish counting stations, which could result in necessary extended outages over the next 3 months, prior to getting the reservoir back up to normal operation (571.5').





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## Memorandum

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**To:** Denny Rohr  
**From:** Tracy Hillman  
**Date:** 12 January 2015  
**Re:** PRFF Meeting Progress Report

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The Priest Rapids Fish Forum (PRFF) met at Grant PUD Natural Resources Office in Wenatchee, WA, on Wednesday, 7 January 2015, from 9:00 am to 12:00 pm.

### Wanapum Dam Issues

- Grant PUD gave an update on the status of Wanapum Dam. As repairs to the dam continue, Grant PUD is operating Wanapum Reservoir within a four-foot range between 558 and 562 feet elevations. Grant PUD believes they will be able to achieve a normal operation level of 571.5 feet by April 2015.
- The right-bank ladder at Wanapum Dam is fully operational and providing fish passage. The left-bank ladder at Wanapum Dam is dewatered for annual maintenance.
- Grant PUD reopened specific shoreline locations on 7 January. Several shoreline areas remain closed.

### White Sturgeon Updates

- Juvenile sturgeon rearing at Marion Drain are doing well.
- Grant PUD and others continue to evaluate the feasibility and application of using the Ecopath with Ecosim model as a way to estimate sturgeon carrying capacity within the project area. This information may be used to determine how many juvenile sturgeon will be released into the project area annually. The Forum is currently looking for someone with experience with the model to give a presentation to the Forum.
- WDFW is preparing a draft SOA for the release of juvenile white sturgeon in the Priest Rapids Project Area in 2016. The SOA will be similar to the 2015 SOA.
- Grant PUD is currently preparing the white sturgeon annual report. The draft report should be available for review by the end of the month.

### Pacific Lamprey Updates

- The PRFF continued their review and discussion on the revised draft NNI Concept Paper prepared by the Yakama Nation, Umatillas, WDFW, Colville Tribes, and USFWS. The purpose of the Concept Paper is to develop a five-year action plan for Pacific lamprey. Grant PUD provided their comments on the draft NNI Concept Paper. The PRFF will convene the Pacific Lamprey Small Group on Thursday, 29 January 2015 at Grant PUD in Ephrata to discuss lamprey NNI and resolve differences in definitions and tasks.
- This winter, Grant PUD will install PIT arrays upstream and downstream from the OLAF in the left-bank ladder at Priest Rapids Dam. These arrays will help identify possible lamprey passage issues near the OLAF.

- Of the unique PIT-tagged adult lamprey detected at Priest Rapids Dam in 2014, about 91% of them passed Priest Rapids Dam. About 61% passed Wanapum Dam. It is important to point out that flow and operational conditions at Wanapum Dam were not normal in 2014. A comprehensive passage efficiency report and presentation will be provided in February. Members are currently providing questions that they would like addressed during the presentation in February.
- The PRFF will tour the adult fish ladders in February.

### **Bull Trout M&E Annual Report**

- On 15 December 2014, the PRFF received the Draft 2014 Bull Trout Monitoring and Evaluation Plan for their review. Comments on the draft report are due to Grant PUD on Monday, 12 January 2015.

### **Benthic Community Survey Report**

- On 19 December 2014, the PRFF received the Draft Wanapum Drawdown Benthic Community Survey Report, which includes characterization of benthic communities and habitat that was exposed as a result of the Wanapum reservoir drawdown. Comments on the draft report are due to Grant PUD on Tuesday, 20 January 2015.

### **Next Steps**

The next meeting of the PRFF will be on Wednesday, 4 February 2015 at Grant PUD in Wenatchee, WA.

PA Date	PA Project Number	PA Project Name	PA Document No.	Vendor Name	Item Description	Total Cost
2/5/2014	6010008H	Fish Screen Monitor Program	RCT0000000091066	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H FISH SCREEN MONITORING	\$27,263.43
2/13/2014	60100015H	Chewuch River Instream Flow	RCT0000000091597	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H CHEWUCH RIVER FLOW PRO	\$3,800.00
2/26/2014	60100011H	Geochemical Analysis S F Rays	RCT0000000092388	BATTELLE-NORTHWEST CORP	601-11H	\$8,832.27
2/26/2014	60100011H	Geochemical Analysis S F Rays	RCT0000000092345	BATTELLE-NORTHWEST CORP	601-11H GEOCHEMICAL ANALYSIS O	\$16,031.76
2/26/2014	60100011H	Geochemical Analysis S F Rays	RCT0000000092344	BATTELLE-NORTHWEST CORP	601-11H GEOCHEMICAL ANALYSIS O	\$8,201.08
3/6/2014	60100008H		RCT0000000092806	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$29,832.39
3/17/2014	60100012H		RCT0000000093591	OSU OREGON STATE UNIVERSITY	601-12H	\$8,510.17
3/17/2014	60100012H		RCT0000000093589	OSU OREGON STATE UNIVERSITY	601-12H	\$32,142.36
3/19/2014	60100012H		RCT0000000093707	OSU OREGON STATE UNIVERSITY	601-12H CASPIAN TERN M & E GOO	\$17,864.13
3/20/2014	60100017H		RCT0000000093811	BATTELLE-NORTHWEST CORP	JSATS SURVIVAL STUDY LOWER HAN	\$39,953.00
5/6/2014	60100008H		RCT0000000096977	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$38,176.47
4/8/2014	60100008H		RCT0000000094921	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$40,478.31
5/28/2014	60100012H		RCT0000000098928	OSU OREGON STATE UNIVERSITY	601-12H	\$145,721.58
4/28/2014	60100015H		RCT0000000096535	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H	\$3,000.00
5/28/2014	60100015H		RCT0000000098925	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H	\$128,910.15
5/28/2014	60100018H		RCT0000000098756	BLUE LEAF ENVIRONMENTAL, INC	601-18H	\$19,096.41
5/28/2014	60100018H		RCT0000000098755	BLUE LEAF ENVIRONMENTAL, INC	601-18H	\$23,174.40
6/10/2014	60100008H		RCT0000000099670	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$25,340.55
6/17/2014	60100012H		RCT00000000100291	OSU OREGON STATE UNIVERSITY	601-12H	\$71,643.42
6/12/2014	60100014H		RCT0000000099933	MIDWEST LAKE MANAGEMENT, INC	CONTROL BOX CASE	\$385.00
6/12/2014	60100014H		RCT0000000099933	MIDWEST LAKE MANAGEMENT, INC	SPHERE ANODES	\$1,860.00
6/12/2014	60100014H		RCT0000000099933	MIDWEST LAKE MANAGEMENT, INC	GPS SONAR PER ATTACHED	\$2,157.00
6/12/2014	60100014H		RCT0000000099933	MIDWEST LAKE MANAGEMENT, INC	MODEL 18CV ELECTROFISHING BOAT	\$115,949.00
6/17/2014	60100015H		RCT00000000100294	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H	\$215,995.75
6/24/2014	60100017H		RCT00000000100885	BATTELLE-NORTHWEST CORP	601-17H	\$29,229.79
6/3/2014	60100018H		RCT0000000099120	SKALSKI STATISTICAL SERVICES	430-3768	\$1,864.20
7/7/2014	60100008H		RCT00000000101592	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$18,322.79
7/1/2014	60100012H		RCT00000000101374	OSU OREGON STATE UNIVERSITY	601-12H	\$50,308.63
7/1/2014	60100014H		RCT00000000101313	WA ST DEPT OF LICENSING-GRANT COUNTY	2014 CLARK ALUM BOAT AND TRLR	\$9,545.48
7/1/2014	60100018H		RCT00000000101334	BLUE LEAF ENVIRONMENTAL, INC	601-18H	\$18,260.03
7/22/2014	60100018H		RCT00000000102724	BLUE LEAF ENVIRONMENTAL, INC	430-3733	\$27,288.28
7/1/2014	60100018H		RCT00000000101332	BLUE LEAF ENVIRONMENTAL, INC	430-3733	\$38,830.01
7/29/2014	60100018H		RCT00000000103168	BLUE LEAF ENVIRONMENTAL, INC	601-18H	\$94,970.87
8/25/2014	60100012H		RCT00000000104875	OSU OREGON STATE UNIVERSITY	601-12H	\$12,371.11
8/13/2014	60100012H		RCT00000000104237	OSU OREGON STATE UNIVERSITY	601-12H	\$87,062.47
8/26/2014	60100015H		RCT00000000105218	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H	\$57,027.33
8/5/2014	60100018H		RCT00000000103699	BLUE LEAF ENVIRONMENTAL, INC	601-18H	\$1,027.93
9/30/2014	60100008H		RCT00000000107518	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$16,380.84
9/8/2014	60100008H		RCT00000000105823	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$27,432.90
9/23/2014	60100015H		RCT00000000107054	TROUT UNLIMITED - WASH. WATER PROJECT	601-15H	\$8,699.17
9/8/2014	60100016H		RCT00000000105827	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-16H	\$588.67
10/13/2014	60100008H		RCT00000000108036	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$20,439.20
10/13/2014	60100016H		RCT00000000108033	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-16H	\$201.48
10/21/2014	60100020H		RCT00000000108814	TROUT UNLIMITED - WASH. WATER PROJECT	601-20H	\$55,016.29
11/10/2014	60100008H		RCT00000000110216	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-8H	\$17,765.79
11/10/2014	60100016H		RCT00000000110212	WASHINGTON ST DEPT OF FISH & WILDLIFE	601-16H	\$621.08
11/12/2014	60100012H		RCT00000000110276	OSU OREGON STATE UNIVERSITY	601-12H	\$47,863.97
11/18/2014	60100012H		RCT00000000110668	OSU OREGON STATE UNIVERSITY	601-12H	\$33,156.55
11/25/2014	60100020H		RCT00000000111156	TROUT UNLIMITED - WASH. WATER PROJECT	601-20H	\$39,772.93
					<b>Fund 601 - Total Expenditures Year to Date Through 11/30/2014</b>	<b>\$1,738,366.42</b>
1/22/2014	60200017H	Robinson Acquisition	RCT0000000090167	METHOW SALMON RECOVERY FNDN	602-17H	\$241.50
2/19/2014	60200016H	Roaring Ck Restor/Div Removal	RCT0000000091911	TROUT UNLIMITED - WASH. WATER PROJECT	602-16H	\$708.73
2/26/2014	60200020H	Entiat Riv Cottonwood Phs 2	RCT0000000092308	CHELAN-DOUGLAS LAND TRUST	602-20H	\$5,000.00
3/7/2014	60200006H		RCT0000000092941	OKANAGAN NATION ALLIANCE	602-6H	\$82.11
3/7/2014	60200012H		RCT0000000092942	OKANAGAN NATION ALLIANCE	602-12H	\$13,258.07
4/28/2014	60200010H		RCT0000000096514	CHELAN-DOUGLAS LAND TRUST	602-10H	\$1,142.63
4/28/2014	60200010H		RCT0000000096506	CHELAN-DOUGLAS LAND TRUST	602-10H	\$3,772.53
4/28/2014	60200016H		RCT0000000096525	TROUT UNLIMITED - WASH. WATER PROJECT	602-16H	\$2,400.00
5/15/2014	60200006H		RCT0000000097769	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.	602-6H	\$4,976.02
5/15/2014	60200012H		RCT0000000097768	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.	602-12H	\$7,980.10
5/20/2014	60200007H		RCT0000000098095	METHOW SALMON RECOVERY FNDN	602-7	\$319.00
5/20/2014	60200016H		RCT0000000098123	TROUT UNLIMITED - WASH. WATER PROJECT	602-16H	\$1,181.30
6/16/2014	60200022H		RCT00000000100131	STRICKLAND, HEISCHMAN & HOSS, INC	APPRAISAL SERVICES	\$20,000.00
6/17/2014	60200012H		RCT00000000100278	OKANAGAN NATION ALLIANCE	602-12H	\$882.57
6/17/2014	60200014H		RCT00000000100277	OKANAGAN NATION ALLIANCE	602-14H	\$41,787.06
6/24/2014	60200014H		RCT00000000100734	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.	602-14H	\$69,490.27
7/8/2014	60200010H		RCT00000000101807	CHELAN-DOUGLAS LAND TRUST	602-10H	\$10,000.00
7/8/2014	60200010H		RCT00000000101808	CHELAN-DOUGLAS LAND TRUST	602-10H	\$535,211.32
7/11/2014	60200006H		RCT00000000101991	OKANAGAN NATION ALLIANCE	602-6H	\$252.05
7/11/2014	60200012H		RCT00000000101992	OKANAGAN NATION ALLIANCE	602-12H	\$3,227.66
7/15/2014	60200010H		RCT00000000102229	CHELAN-DOUGLAS LAND TRUST	602-10H	\$10,372.59
7/15/2014	60200024H		RCT00000000102251	OKANAGAN NATION ALLIANCE	602-24H	\$33,572.50
7/29/2014	60200015H		RCT00000000103118	CASCADIA CONSERVATION DISTRICT	602-15H	\$34,055.56

PA Date	PA Project Number	PA Project Name	PA Document No.	Vendor Name	Item Description	Total Cost
8/12/2014	60200012H		RCT00000000104189	OKANAGAN NATION ALLIANCE	602-12H	\$4,428.19
8/12/2014	60200014H		RCT00000000104188	OKANAGAN NATION ALLIANCE	602-14H	\$24,508.75
9/23/2014	60200012H		RCT00000000106941	OKANAGAN NATION ALLIANCE	602-12H	\$3,009.49
9/23/2014	60200014H		RCT00000000107071	OKANAGAN NATION ALLIANCE	602-14H	\$240.49
9/2/2014	60200017H		RCT00000000105486	METHOW SALMON RECOVERY FNDR	602-17H ROBINSON ACQUISITION	\$3,269.44
9/23/2014	60200023H		RCT00000000107070	OKANAGAN NATION ALLIANCE	602-23H	\$4,117.48
9/23/2014	60200024H		RCT00000000107069	OKANAGAN NATION ALLIANCE	602-24H	\$36,732.97
9/23/2014	60200024H		RCT00000000107067	OKANAGAN NATION ALLIANCE	602-24H	\$57,034.78
9/23/2014	60200025H		RCT00000000106943	CASCADE CHELAN APPRAISAL, INC	602-25	\$10,800.00
10/13/2014	60200009H		RCT00000000108018	CASCADE COLUMBIA FISHERIES ENHC GRP	602-9H	\$174.97
10/22/2014	60200021H		RCT00000000108842	TROUT UNLIMITED - WASH. WATER PROJECT	602-21H	\$16,100.00
10/13/2014	60200024H		RCT00000000108032	OKANAGAN NATION ALLIANCE	602-24H	\$36,285.05
10/13/2014	60200024H		RCT00000000108030	OKANAGAN NATION ALLIANCE	602-24H	\$70,435.86
11/4/2014	60200023H		RCT00000000109803	OKANAGAN NATION ALLIANCE	602-23H	\$1,117.82
11/25/2014	60200006H		RCT00000000111158	OKANAGAN NATION ALLIANCE	602-6H	\$1,287.19
11/25/2014	60200021H		RCT00000000111155	TROUT UNLIMITED - WASH. WATER PROJECT	602-21H	\$15,330.00
11/25/2014	60200024H		RCT00000000111157	OKANAGAN NATION ALLIANCE	602-24H	\$4,297.22
					<b>Fund 602 - Total Expenditures Year to Date Through 11/30/2014</b>	<b>\$1,089,083.27</b>
1/20/2014	60300024H	Barkley Irrigation Diversion	ML000000000005495			(\$11,167.86)
1/22/2014	60300022H	White River Gage Station	RCT00000000090183	WASHINGTON ST DEPT OF ECOLOGY	603-22H WHITE RIVER GAGE STATI	\$13.82
2/5/2014	60300016H	Libby Ck Riparian Acquisition	RCT00000000091068	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-16H	\$408.51
2/19/2014	60300027H	Icicle Irr Pump Exch Analysis	RCT00000000091872	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H ICICLE-PESHASTIN IRRIG	\$4,285.00
2/26/2014	60300022H	White River Gage Station	RCT00000000092387	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$3,233.43
3/17/2014	60300022H		RCT00000000093607	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$1,081.97
3/17/2014	60300027H		RCT00000000093598	TROUT UNLIMITED - WASH. WATER PROJECT	ICICLE-PESHASTIN ANALYSIS FOR	\$12,720.00
1/31/2014	60300024H	Barkley Irrigation Diversion		reversed ML5495. It was done incorrectly. So reversed and corrected.		\$11,167.86
5/20/2014	60300022H		RCT00000000098092	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$1,336.73
4/28/2014	60300022H		RCT00000000096536	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$1,655.10
5/9/2014	60300026H		RCT00000000097360	COLVILLE CONFEDERATED TRIBES	603-26H	\$13,430.00
5/20/2014	60300027H		RCT00000000098121	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H	\$21,630.00
4/28/2014	60300027H		RCT00000000096537	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H	\$30,006.90
6/23/2014	60300022H		RCT00000000100593	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$748.43
6/17/2014	60300026H		RCT00000000100280	COLVILLE CONFEDERATED TRIBES	603-26H	\$13,430.00
6/17/2014	60300027H		RCT00000000100298	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H	\$17,733.75
7/7/2014	60300016H		RCT00000000101594	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-16H	\$23.81
7/28/2014	60300022H		RCT00000000103097	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$647.59
7/29/2014	60300027H		RCT00000000103144	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H	\$13,443.75
7/15/2014	60300028H		RCT00000000102230	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-28H	\$213.01
8/15/2014	60300027H		RCT00000000104443	TROUT UNLIMITED - WASH. WATER PROJECT	603-27H	\$16,343.00
9/9/2014	60300022H		RCT00000000105973	WASHINGTON ST DEPT OF ECOLOGY	603-22H	\$1,807.75
9/23/2014	60300024H		RCT00000000107064	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$3,920.59
9/2/2014	60300025H		RCT00000000105491	CONFEDERATED TRIBES & BANDS OF THE YAKAMA NATION	603-25H	\$75,000.00
9/9/2014	60300028H		RCT00000000105984	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-28H	\$11,331.77
9/30/2014	60300028H		RCT00000000107519	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-28H	\$13,829.40
10/13/2014	60300024H		RCT00000000108012	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$3,015.35
10/22/2014	60300028H		RCT00000000108843	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-28H	\$15,401.45
11/10/2014	60300016H		RCT00000000110215	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-16H	\$498.47
11/10/2014	60300028H		RCT00000000110214	WASHINGTON ST DEPT OF FISH & WILDLIFE	603-28H	\$75,238.65
11/25/2014	60300026H		RCT00000000111160	COLVILLE CONFEDERATED TRIBES	603-26H	\$13,430.00
					<b>Fund 603 - Total Expenditures Year to Date Through 11/30/2014</b>	<b>\$365,858.23</b>

**PRCC - Habitat Funds**  
 Report of Unencumbered Fund Balances  
 As of November 30, 2014

**No Net Impact (NNI) Fund 601:**

Cash &amp; Investments Fund Balance per Monthly Report

\$ 5,993,853

Less remaining balance with Open Project ID's:			Project Balance
1.	Open	60100008H Fish Screen Monitor Program	698,818
2.	Open	60100009H Juv NPM Population Control	40,204
3.	Open	60100011H Geochemical Analysis of Scales & Fin Rays	990
4.	Open	60100012H Goose Is. Terns Eval & Behavior	487,497
5.	Open	60100014H Electrofishing Boat	(4,896)
7.	Open	60100016H Mid-Columbia Intake Screen & Diversion Asses	101,427
8.	Open	60100017H JSATS Subyearling Survival Study Lower Hanfc	10,723
9.	Open	60100018H WAN Drawdown Migrat Study	488
10.	Open	60100019H Lw Wenatchee Instream Flow Ph II	456,241
11.	Open	60100020H Methow Valley Irrigation District Instream Flow	1,305,211
			3,096,703 →
<b>Fund 601 Unencumbered Balance</b>			<b>\$ 2,897,150</b>

**Habitat Supplemental Fund 602:**

Cash &amp; Investments Fund Balance per Monthly Report

\$ 4,935,701

Less remaining balance with Open Project ID's:			Project Balance
1.	Open	60200003H Trinidad Creek	\$ 32,149
2.	Open	60200006H ORRI Spawning Hab Improvement	7,283
3.	Open	60200007H Methow Sugar Dike Acquisition I	15,402
4.	Open	60200008H Nason Ck LWP B+ Enhance	160,000
5.	Open	60200009H Wen Nutrient Enhance Treatment	-
6.	Open	60200010H Entiat Stormy Rch Phs III Acq	132,381
7.	Open	60200012H ORRI Construction Phase II	65,988
9.	Open	60200014H Shuttleworth Crk Diversion and Well Implement	20,563
11.	Open	60200016H Roaring Ck Restor/Div Removal	151,577
12.	Open	60200017H Robinson Acquisition	5,051
13.	Open	60200020H Entiat Riv Cottonwood Phs 2	5,000
14.	Open	60200021H Barkley Irr Co. Diverson	267,950
16.	Open	60200023H Fish Jump Passage McIntyre	27,705
17.	Open	60200024H ORRI-Spawning Platforms in Penticton Channel	152,842
18.	Open	60200025H Primary Appraiser Land Acq & Conservation Ea	39,200
19.	Open	60200026H Lwr Nason Channel RM 2.4 Land	10,000
20.	Open	60200027H Silver Side Channel Pittag Array	123,638
21.	Open	60200028H Newby Narrows	350,000
			1,566,729 →
<b>Fund 602 Unencumbered Balance</b>			<b>\$ 3,368,972</b>

**Habitat Fund 603:**

Cash &amp; Investments Fund Balance per Monthly Report

\$ 1,001,581

Less remaining balance with Open Project ID's:			Project Balance
1.	Open	60300016H Libby Ck Riparian Acquisition	63,906
2.	Open	60300022H White River Gage Station	7,712
3.	Open	60300024H Barkley Irrigation Ditch Diversion Project	10,292
4.	Open	60300025H Methow River 1890's Side Channel Acquisition	15,000
5.	Open	60300026H Okan River Discharge Monitor	50,662
6.	Open	60300027H Icicle IRR Pump Exch Analysis	10,042
7.	Open	60300028H Icicle Creek Boulder Pit Tag Array	51,084
			208,698 →
<b>Fund 603 Unencumbered Balance</b>			<b>\$ 792,883</b>

**Total Unencumbered Balance for all PRCC Funds****\$ 7,059,004**

**PRCC - Habitat Funds**  
 No Net Impact (NNI) - Fund 601  
 As of November 30, 2014  
 Activity Detail and Project Balance

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100008H	Open	601-08	Fish Screen Monitor Program			1,377,873.21
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100008H	7/9/2012	RCT00000000053545	WASHINGTON ST DEPT OF FISH & WILDLIFE		FISH SCREEN PROGRAM	\$1,279.33
60100008H	8/28/2012	RCT00000000056803	WASHINGTON ST DEPT OF FISH & WILDLIFE		FISH SCREEN PROGRAM 2012	\$13,009.44
60100008H	10/22/2012	RCT00000000060120	WASHINGTON ST DEPT OF FISH & WILDLIFE		FISH SCREEN MONITORING PROGRA	\$21,226.09
60100008H	11/28/2012	RCT00000000065971	WASHINGTON ST DEPT OF FISH & WILDLIFE		FISH SCREEN MONITORING PROGRA	\$5,756.11
60100008H	12/19/2012	RCT00000000063920	WASHINGTON ST DEPT OF FISH & WILDLIFE		301-8H	\$24,811.09
60100008H	12/19/2012	RCT00000000063916	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$26,254.18
60100008H	12/31/2012	RCT00000000065812	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8 2012	\$17,711.55
60100008H	12/31/2012	RCT00000000065892	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$1,485.73
60100008H	12/31/2012	RCT00000000065893	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$2,017.63
60100008H	12/31/2012	RCT00000000065807	WASHINGTON ST DEPT OF FISH & WILDLIFE		FISH SCREEN MONITORING PROGRA	\$3,217.73
60100008H	2/7/2013	RCT00000000067195	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H FISH SCREEN MONITORING	\$22,288.85
60100008H	3/21/2013	RCT00000000070233	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$18,690.24
60100008H	4/4/2013	RCT00000000071048	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$56,047.79
60100008H	5/1/2013	RCT00000000072948	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H FISH SCREEN MONITORING	\$20,834.05
60100008H	5/15/2013	RCT00000000073824	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$7,985.66
60100008H	7/2/2013	RCT00000000076894	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$38,105.82
60100008H	7/9/2013	RCT00000000077071	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$45.49
60100008H	7/9/2013	RCT00000000077070	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$303.84
60100008H	7/9/2013	RCT00000000077069	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$218.03
60100008H	7/9/2013	RCT00000000077068	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$333.56
60100008H	7/9/2013	RCT00000000077050	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$35,777.12
60100008H	7/9/2013	RCT00000000077040	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$71.20
60100008H	7/9/2013	RCT00000000077039	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$176.34
60100008H	7/9/2013	RCT00000000077036	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$226.24
60100008H	7/9/2013	RCT00000000077038	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$80.92
60100008H	9/4/2013	RCT00000000080739	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$10,818.54
60100008H	9/4/2013	RCT00000000080741	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$241.13
60100008H	10/1/2013	RCT00000000082565	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SCREEN MONITORING	\$4,244.69
60100008H	10/8/2013	RCT00000000083198	WASHINGTON ST DEPT OF FISH & WILD		601-8H	\$12,190.94
60100008H	11/13/2013	RCT00000000085383	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$21,172.48
60100008H	12/11/2013	RCT00000000087463	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$24,559.60
60100008H	12/31/2013	RCT00000000088817	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$26,441.27
60100008H	2/5/2014	RCT00000000091066	WASHINGTON ST DEPT OF FISH & WILD		601-8H FISH SC	\$27,263.43
60100008H	3/6/2014	RCT00000000092806	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$29,832.39
60100008H	4/8/2014	RCT00000000094921	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$40,478.31
60100008H	5/6/2014	RCT00000000096977	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$38,176.47
60100008H	6/10/2014	RCT00000000099670	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$25,340.55
60100008H	7/7/2014	RCT00000000101592	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$18,322.79
60100008H	9/8/2014	RCT00000000105823	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$27,432.90
60100008H	9/30/2014	RCT00000000107518	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$16,380.84
60100008H	10/13/2014	RCT00000000108036	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$20,439.20
60100008H	11/10/2014	RCT00000000110216	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-8H	\$17,765.79
Total Project Expenditures						\$679,055.35
<b>Remaining Project Balance</b>						<b>698,817.86</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100009H	Open	601-09	Juv NPM Population Control			267,306.23
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100009H	9/20/2012	RCT00000000058134	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$75,278.70
60100009H	10/4/2012	RCT00000000059082	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$822.45
60100009H	10/22/2012	RCT00000000060118	WASHINGTON ST DEPT OF FISH & WILDLIFE		JUVENILE NORTHERN PIKEMINNOW	\$37,246.15
60100009H	12/20/2012	RCT00000000064040	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$23,151.27
60100009H	12/20/2012	RCT00000000064036	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$27,976.40
60100009H	12/31/2012	RCT00000000065895	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$19,284.97
60100009H	2/6/2013	RCT00000000067116	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$152.75
60100009H	2/14/2013	RCT00000000067820	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$18,197.65
60100009H	3/21/2013	RCT00000000070262	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H JUVENILE NORTHERN PIKEM	\$12,600.59
60100009H	4/15/2013	RCT00000000071727	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-9H	\$2,191.99

**PRCC - Habitat Funds**  
 No Net Impact (NNI) - Fund 601  
 As of November 30, 2014  
 Activity Detail and Project Balance

60100009H	7/9/2013	RCT00000000077080	WASHINGTON ST DEPT OF FISH & WILD	601-9H JUVENILE NORTHERN PIKEM	\$1,089.78
60100009H	7/9/2013	RCT00000000077059	WASHINGTON ST DEPT OF FISH & WILD	601-9H	\$3,515.66
60100009H	7/9/2013	RCT00000000077060	WASHINGTON ST DEPT OF FISH & WILD	601-9H	\$12,221.06
60100009H	7/9/2013	RCT00000000077061	WASHINGTON ST DEPT OF FISH & WILD	601-9H	\$1,611.79
60100009H	7/9/2013	RCT00000000077062	WASHINGTON ST DEPT OF FISH & WILD	601-9H	\$1,318.72
60100009H	7/9/2013	RCT00000000077072	WASHINGTON ST DEPT OF FISH & WILD	601-9H JUVENILE NORTHERN PIKEM	\$1,314.24
60100009H	7/9/2013	RCT00000000077074	WASHINGTON ST DEPT OF FISH & WILD	601-9H JUVENILE NORTHERN PIKEM	\$1,723.75
60100009H	7/9/2013	RCT00000000077079	WASHINGTON ST DEPT OF FISH & WILD	601-9H JUVENILE NORTHERN PIKEM	\$1,792.37
60100009H	8/27/2013	ML000000000004844			<b>(\$14,388.18)</b>
Total Project Expenditures					\$227,102.11
<b>Remaining Project Balance</b>					<b>40,204.12</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100011H	Open	601-11	Geochemical Analysis S F Rays		To determine the accuracy of geochemical analysis for identifying the origin of	513,342.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100011H	9/10/2012	RCT00000000057345	BATTELLE-NORTHWEST CORP		601-11	\$16,538.22
60100011H	9/27/2012	RCT00000000058570	BATTELLE-NORTHWEST CORP		601-11H	\$9,194.62
60100011H	10/25/2012	RCT00000000060477	BATTELLE-NORTHWEST CORP		601-11H	\$28,084.84
60100011H	11/7/2012	RCT00000000061321	BATTELLE-NORTHWEST CORP		601-11H	\$53,213.21
60100011H	1/13/2013	RCT00000000066790	BATTELLE-NORTHWEST CORP		601-11H GEOCHEMICAL ANALYSIS	\$69,074.89
60100011H	2/19/2013	RCT00000000068161	BATTELLE-NORTHWEST CORP		601-11H	\$58,767.38
60100011H	3/18/2013	RCT00000000069970	BATTELLE-NORTHWEST CORP		601-11H	\$44,293.89
60100011H	5/2/2013	RCT00000000073003	BATTELLE-NORTHWEST CORP		601-11H ANALYSIS OF SCALES & F	\$31,840.41
60100011H	5/15/2013	RCT00000000073818	BATTELLE-NORTHWEST CORP		601-11H	\$42,901.80
60100011H	8/27/2013	RCT00000000080449	BATTELLE-NORTHWEST CORP		601-11H GEOCHEMICAL ANALYSIS O	\$67,679.06
60100011H	8/27/2013	RCT00000000080450	BATTELLE-NORTHWEST CORP		601-11H GEOCHEMICAL ANALYSIS O	\$27,756.51
60100011H	11/12/2013	RCT00000000085238	BATTELLE-NORTHWEST CORP		601-11H	\$29,941.83
60100011H	2/26/2014	RCT00000000092388	BATTELLE-NORTHWEST CORP		601-11H	\$8,832.27
60100011H	2/26/2014	RCT00000000092345	BATTELLE-NORTHWEST CORP		601-11H GEOCHEMICAL ANALYSIS O	\$16,031.76
60100011H	2/26/2014	RCT00000000092344	BATTELLE-NORTHWEST CORP		601-11H GEOCHEMICAL ANALYSIS O	\$8,201.08
Total Project Expenditures						\$512,351.77
<b>Remaining Project Balance</b>						<b>990.23</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100012H	Open	601-12	Evaluation and Behavior Analysis of Caspian Terns on Goose Island		Study to evaluate the foraging behavior and colony connectivity of Caspian terns	1,342,977.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100012H	5/30/2013	RCT00000000074721	OUS OREGON STATE UNIVERSITY		601-12H	\$16,055.14
60100012H	6/20/2013	RCT00000000076023	OUS OREGON STATE UNIVERSITY		601-12H CASPIAN TERN M & E GOO	\$106,436.69
60100012H	7/24/2013	RCT00000000078363	OSU OREGON STATE UNIVERSITY		601-12H	\$63,827.32
60100012H	8/14/2013	RCT00000000079591	OSU OREGON STATE UNIVERSITY		601-12H	\$65,667.14
60100012H	8/26/2013	RCT00000000080258	OSU OREGON STATE UNIVERSITY		601-12H CASPIAN TERN M & E GOO	\$7,623.88
60100012H	10/1/2013	RCT00000000082584	OSU OREGON STATE UNIVERSITY		601-12H	\$24,641.52
60100012H	11/12/2013	RCT00000000085284	OSU OREGON STATE UNIVERSITY		601-12H CASPIAN TERN M & E GOO	\$38,409.96
60100012H	12/31/2013	RCT00000000088819	OSU OREGON STATE UNIVERSITY		601-12H	\$26,173.84
60100012H	3/17/2014	RCT00000000093591	OSU OREGON STATE UNIVERSITY		601-12H	\$8,510.17
60100012H	3/17/2014	RCT00000000093589	OSU OREGON STATE UNIVERSITY		601-12H	\$32,142.36
60100012H	3/19/2014	RCT00000000093707	OSU OREGON STATE UNIVERSITY		601-12H CASPIAN TERN M & E GOO	\$17,864.13
60100012H	5/28/2014	RCT00000000098928	OSU OREGON STATE UNIVERSITY		601-12H	\$145,721.58
60100012H	6/17/2014	RCT00000000100291	OSU OREGON STATE UNIVERSITY		601-12H	\$71,643.42
60100012H	7/1/2014	RCT00000000101374	OSU OREGON STATE UNIVERSITY		601-12H	\$50,308.63
60100012H	8/13/2014	RCT00000000104237	OSU OREGON STATE UNIVERSITY		601-12H	\$87,062.47
60100012H	8/25/2014	RCT00000000104875	OSU OREGON STATE UNIVERSITY		601-12H	\$12,371.11
60100012H	11/12/2014	RCT00000000110276	OSU OREGON STATE UNIVERSITY		601-12H	\$47,863.97
60100012H	11/18/2014	RCT00000000110668	OSU OREGON STATE UNIVERSITY		601-12H	\$33,156.55



**PRCC - Habitat Funds**  
 No Net Impact (NNI) - Fund 601  
 As of November 30, 2014  
 Activity Detail and Project Balance

	Total Project Expenditures	\$855,479.88
	<b>Remaining Project Balance</b>	<b><u>487,497.12</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100014H	Open	601-14	Electrofishing Boat			125,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100014H	6/12/2014	RCT0000000099933	MIDWEST LAKE MANAGEMENT, INC		601-14H	\$120,351.00
60100014H	7/1/2014	RCT00000000101313	WA ST DEPT OF LICENSING-GRANT COUNTY		601-14H	\$9,545.48
Total Project Expenditures						<u>\$129,896.48</u>
<b>Remaining Project Balance</b>						<b><u>(4,896.48)</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100016H	Open	601-16	Mid-Columbia Intake Screen & Diversion Assessment			102,838.58
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100016H	9/8/2014	RCT00000000105827	TROUT UNLIMITED - WASH. WATER PROJECT		601-16H	\$588.67
60100016H	10/13/2014	RCT00000000108033	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-16H	\$201.48
60100016H	11/10/2014	RCT00000000110212	WASHINGTON ST DEPT OF FISH & WILDLIFE		601-16H	\$621.08
Total Project Expenditures						<u>\$1,411.23</u>
<b>Remaining Project Balance</b>						<b><u>101,427.35</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100017H	Open	601-17	JSATS Subyearling Survival Study Lower Hanford Reach			79,906.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100017H	3/20/2014	RCT00000000093811	BATTELLE-NORTHWEST CORP		JSATS SURVIVAL STUDY LOWER HA	\$39,953.00
60100017H	6/24/2014	RCT00000000100885	BATTELLE-NORTHWEST CORP		601-17H	\$29,229.79
Total Project Expenditures						<u>\$69,182.79</u>
<b>Remaining Project Balance</b>						<b><u>10,723.21</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100018H	Open	601-18	WAN Drawdown Migrat Study			225,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100018H	5/28/2014	RCT00000000098756	BLUE LEAF ENVIRONMENTAL, INC			\$19,096.41
60100018H	5/28/2014	RCT00000000098755	BLUE LEAF ENVIRONMENTAL, INC			\$23,174.40
60100018H	6/3/2014	RCT00000000099120	SKALSKI STATISTICAL SERVICES			\$1,864.20
60100018H	7/1/2014	RCT00000000101334	BLUE LEAF ENVIRONMENTAL, INC			\$18,260.03
60100018H	7/22/2014	RCT00000000102724	BLUE LEAF ENVIRONMENTAL, INC			\$27,288.28

**PRCC - Habitat Funds**  
 No Net Impact (NNI) - Fund 601  
 As of November 30, 2014  
 Activity Detail and Project Balance

60100018H	7/1/2014	RCT00000000101332	BLUE LEAF ENVIRONMENTAL, INC	\$38,830.01
60100018H	7/29/2014	RCT00000000103168	BLUE LEAF ENVIRONMENTAL, INC	\$94,970.87
60100018H	8/5/2014	RCT00000000103699	BLUE LEAF ENVIRONMENTAL, INC	\$1,027.93
Total Project Expenditures				\$224,512.13
<b>Remaining Project Balance</b>				<b>487.87</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100019H	Open	601-19	Lw Wenatchee Instream Flow Ph II			456,241.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
Total Project Expenditures						\$0.00
<b>Remaining Project Balance</b>						<b>456,241.00</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60100020H	Open	601-20	Methow Valley Irrigation District Instream Flow Improvement Project			1,400,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60100020H	10/21/2014	RCT00000000108814	TROUT UNLIMITED - WASH. WATER PROJECT		601-20H	\$55,016.29
60100020H	11/25/2014	RCT00000000111156	TROUT UNLIMITED - WASH. WATER PROJECT		601-20H	\$39,772.93
Total Project Expenditures						\$94,789.22
<b>Remaining Project Balance</b>						<b>1,305,210.78</b>

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200003H	Open	602-03	Trinidad Creek Land Purchase	WDFW	63 acres of shrub steppe land purchase	117,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200003H	7/29/2010	RCT00000000011359	WASHINGTON ST DEPT OF FISH & WILDLIFE		TRINIDAD CREEK	\$6,019.88
60200003H	10/5/2010	RCT00000000015264	WASHINGTON ST DEPT OF FISH & WILDLIFE		TRINIDAD CREEK ACQUISITION-CRS	\$124.19
60200003H	10/5/2010	RCT00000000015263	WASHINGTON ST DEPT OF FISH & WILDLIFE		TRINIDAD CREEK ACQUISITION	\$1,733.12
60200003H	11/4/2010	RCT00000000017797	WASHINGTON ST DEPT OF FISH & WILDLIFE		TRINIDAD CREEK/CRESCENT VIEW 1	\$837.85
60200003H	11/12/2010	RCT00000000018637	WASHINGTON ST DEPT OF FISH & WILDLIFE		HABITAT 603-14	\$11.26
60200003H	11/12/2010	RCT00000000018632	WASHINGTON ST DEPT OF FISH & WILDLIFE		ENVIRONMENTAL AUDIT	\$1,375.81
60200003H	7/28/2011	RCT00000000033309	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-14H TRINIDAD CREEK	\$1,363.70
60200003H	8/31/2011	RCT00000000035332	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-14 JUN-11	\$10,096.15
60200003H	11/17/2011	RCT00000000039958	WASHINGTON ST DEPT OF FISH & WILDLIFE		CRESCENT VIEW ESTATES	\$1,363.79
60200003H	11/17/2011	RCT00000000039959	WASHINGTON ST DEPT OF FISH & WILDLIFE		CRESCENT VIEW ESTATES	\$4,938.99
60200003H	12/31/2011	RCT00000000042888	WASHINGTON ST DEPT OF FISH & WILDLIFE		NOV-11 TRINIDAD CREEK ACQUISIT	\$611.10
60200003H	12/31/2011	RCT00000000042918	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-14	\$677.18
60200003H	2/15/2012	RCT00000000044747	WASHINGTON ST DEPT OF FISH & WILDLIFE		ACQUISITION T CREEK/ C VIEW ES	\$622.25
60200003H	3/8/2012	RCT00000000045996	WASHINGTON ST DEPT OF FISH & WILDLIFE			\$53,613.50
60200003H	4/5/2012	RCT00000000047730	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-14	\$1,321.98
60200003H	5/2/2012	RCT00000000049429	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-14 TRINIDAD CREEK ACQUISIT	\$140.69
Total Project Expenditures						\$84,851.44
<b>Remaining Project Balance</b>						<b>32,148.56</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200006H	Open	602-06	ORRI Spawning Hab Improvement	ONA	Okanogan River in BC	65,141.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200006H	9/6/2012	RCT00000000057237	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		HFA 602-6	\$2,881.82
60200006H	10/3/2012	RCT00000000058957	OKANAGAN NATION ALLIANCE		HFA 602-6	\$2,576.02
60200006H	12/31/2012	RCT00000000064915	OKANAGAN NATION ALLIANCE		602-6H	\$91.93
60200006H	3/26/2013	RCT00000000070529	OKANAGAN NATION ALLIANCE		FEB-13 OKANAGAN RIVER VERTICAL	\$481.82
60200006H	12/18/2013	RCT00000000087910	OKANAGAN NATION ALLIANCE		602-6 OKANAGAN RIVER VERTICAL	\$2,710.29
60200006H	12/23/2013	RCT00000000088207	OKANAGAN NATION ALLIANCE		602-6H	\$42,518.87
60200006H	3/7/2014	RCT00000000092941	OKANAGAN NATION ALLIANCE		602-6H	\$82.11
60200006H	5/15/2014	RCT00000000097769	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		602-6H	\$4,976.02
60200006H	7/11/2014	RCT00000000101991	OKANAGAN NATION ALLIANCE		602-6H	\$252.05
60200006H	11/25/2014	RCT00000000111158	OKANAGAN NATION ALLIANCE		602-6H	\$1,287.19
Total Project Expenditures						\$57,858.12
<b>Remaining Project Balance</b>						<b>7,282.88</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200007H	Open	602-07	Methow Sugar Dike Acquisition 1	Methow Salmon	Purchase 10.4 acre parcel lower segment N	190,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200007H	8/31/2011	RCT00000000035447	BAINES TITLE & ESCROW		HFA-6027H METHOW DIKE ACQUISIT	\$168,366.48
60200007H	5/24/2012	RCT00000000050829	METHOW SALMON RECOVERY FNDN		602-7 ACQUISITION	\$3,016.73
60200007H	10/2/2012	RCT00000000058851	METHOW SALMON RECOVERY FNDN		602-7H	\$2,747.11

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

60200007H	8/7/2013	RCT00000000079172	METHOW SALMON RECOVERY FNDN	602-7H METHOW SUGAR DIKE ACQU	\$148.50
60200007H	5/20/2014	RCT00000000098095	METHOW SALMON RECOVERY FNDN	602-7	\$319.00
Total Project Expenditures					174,597.82
<b>Remaining Project Balance</b>					<b>15,402.18</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200008H	Open	602-8	Nason Ck LWP B+ Enhance	Chelan PUD NR	Design and permitting of an in-stream vor	160,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
Total Project Expenditures						-
<b>Remaining Project Balance</b>						<b>160,000.00</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200009H	Open	602-09	Wen Nutrient Enhance Treatment			120,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200009H	9/27/2012	RCT00000000058569	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H NUTRIENT ENHANCEMENT	\$19,953.56
60200009H	11/1/2012	RCT00000000060926	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H WENATCHEE NUTRIENT ENH	\$14,443.55
60200009H	12/27/2012	RCT00000000064512	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H	\$10,526.87
60200009H	12/30/2012	RCT00000000064706	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H	\$9,570.92
60200009H	3/4/2013	RCT00000000068856	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9 WENATCHEE NUTRIENT ENHA	\$8,048.58
60200009H	4/4/2013	RCT00000000071028	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9 WENATCHEE NUTRIENT ENHA	\$7,623.87
60200009H	6/6/2013	RCT00000000075154	CASCADE COLUMBIA FISHERIES ENHC		602-9	\$9,316.85
60200009H	6/27/2013	RCT00000000076523	CASCADE COLUMBIA FISHERIES ENHC		602-9	\$13,231.82
60200009H	7/24/2013	RCT00000000078296	CASCADE COLUMBIA FISHERIES ENHC		602-9H WENATCHEE NUTRIENT ENH	\$5,144.75
60200009H	9/25/2013	RCT00000000082163	CASCADE COLUMBIA FISHERIES ENHC		WENATCHEE NUTRIENT ASSESSME	\$8,800.75
60200009H	11/4/2013	RCT00000000084775	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H WENATCHEE NUTRIENT ENH	\$13,163.51
60200009H	10/13/2014	RCT00000000108018	CASCADE COLUMBIA FISHERIES ENHC GRP		602-9H	\$174.97
Total Project Expenditures						\$120,000.00
<b>Remaining Project Balance</b>						<b>-</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200010H	Open	602-10	Eniat Stormy Rch Phs III Acq			711,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200010H	3/14/2013	RCT00000000069772	CHELAN-DOUGLAS LAND TRUST		ENTIAT STORMY REACH PHASE 3	\$3,083.27
60200010H	6/19/2013	RCT00000000075844	CHELAN-DOUGLAS LAND TRUST		602-10H ENTIAT STORMY REACH PH	\$3,633.52
60200010H	12/23/2013	RCT00000000088193	CHELAN-DOUGLAS LAND TRUST		602-10H ENTIAT STORMY REACH PH	\$11,402.78
60200010H	4/28/2014	RCT00000000096514	CHELAN-DOUGLAS LAND TRUST		602-10H	\$1,142.63
60200010H	4/28/2014	RCT00000000096506	CHELAN-DOUGLAS LAND TRUST		602-10H	\$3,772.53
60200010H	7/8/2014	RCT00000000101807	CHELAN-DOUGLAS LAND TRUST		602-10H	\$10,000.00
60200010H	7/15/2014	RCT00000000102229	CHELAN-DOUGLAS LAND TRUST		602-10H	\$10,372.59

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

60200010H	7/8/2014	RCT00000000101808	CHELAN-DOUGLAS LAND TRUST	602-10H	\$535,211.32
Total Project Expenditures					<u>578,618.64</u>
Remaining Project Balance					<u><u>132,381.36</u></u>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200012H	Open	602-12	ORRI Construction Phase II			599,588.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200012H	9/6/2012	RCT00000000057240	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		HFA 602-12H	\$975.43
60200012H	9/18/2013	RCT00000000081732	OKANAGAN NATION ALLIANCE		602-12H OKANAGAN RIVER RESTOR.	\$5,546.52
60200012H	9/25/2013	RCT00000000082349	OKANAGAN NATION ALLIANCE		602-12H OKANAGAN RIVER RESTOR.	\$89,953.92
60200012H	9/25/2013	RCT00000000082352	OKANAGAN NATION ALLIANCE		602-12H OKANAGAN RIVER RESTOR.	\$15,700.57
60200012H	10/8/2013	RCT00000000083144	OKANAGAN NATION ALLIANCE		602-12H	\$108,619.11
60200012H	10/15/2013	RCT00000000083574	OKANAGAN NATION ALLIANCE		602-12H	\$104,665.35
60200012H	11/12/2013	RCT00000000085285	OKANAGAN NATION ALLIANCE		602-12H OKANAGAN RIVER RESTOR.	\$2,614.78
60200012H	11/20/2013	RCT00000000085968	OKANAGAN NATION ALLIANCE		601-124	\$141,814.27
60200012H	12/31/2013	RCT00000000089775	OKANAGAN NATION ALLIANCE		602-12H OKANAGAN RIVER RESTOR.	\$4,650.90
60200012H	12/31/2013	RCT00000000089691	OKANAGAN NATION ALLIANCE		602-12H	\$26,273.03
60200012H	3/7/2014	RCT00000000092942	OKANAGAN NATION ALLIANCE		602-12H	\$13,258.07
60200012H	5/15/2014	RCT00000000097768	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		602-12H	\$7,980.10
60200012H	6/17/2014	RCT00000000100278	OKANAGAN NATION ALLIANCE		602-12H	\$882.57
60200012H	7/11/2014	RCT00000000101992	OKANAGAN NATION ALLIANCE		602-12H	\$3,227.66
60200012H	8/12/2014	RCT00000000104189	OKANAGAN NATION ALLIANCE		602-12H	\$4,428.19
60200012H	9/23/2014	RCT00000000106941	OKANAGAN NATION ALLIANCE		602-12H	\$3,009.49
Total Project Expenditures						<u>\$533,599.96</u>
Remaining Project Balance						<u><u>65,988.04</u></u>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200014H	Open	602-14	Shuttleworth Ck Diversion/Well			477,230.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200014H	11/7/2012	RCT00000000061325	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		602-14H	\$4,272.27
60200014H	11/26/2012	RCT00000000062444	OKANAGAN NATION ALLIANCE		602-14H SHUTTLEWORTH CREEK DIV	\$39,412.89
60200014H	12/10/2012	RCT00000000063308	OKANAGAN NATION ALLIANCE		SHUTTLEWORTH CREEK DIVERSION	\$3,846.99
60200014H	12/27/2012	RCT00000000064481	OKANAGAN NATION ALLIANCE		SHUTTLEWORTH CREEK DIVERSION	\$116,699.77
60200014H	12/30/2012	RCT00000000064709	OKANAGAN NATION ALLIANCE		SHUTTLEWORTH CREEK DIVERSION	\$59,159.92
60200014H	1/23/2013	RCT00000000066264	OKANAGAN NATION ALLIANCE		602-14H SHUTTLEWORTH CREEK DIV	\$225.92
60200014H	2/27/2013	RCT00000000068657	OKANAGAN NATION ALLIANCE		602-14H	\$13,824.93
60200014H	3/20/2013	RCT00000000070194	OKANAGAN NATION ALLIANCE		302-14H SHUTTLEWORTH CREEK DIV	\$6,733.07
60200014H	4/4/2013	RCT00000000071050	OKANAGAN NATION ALLIANCE		302-14H SHUTTLEWORTH CREEK DIV	\$18,770.05
60200014H	5/16/2013	RCT00000000073947	OKANAGAN NATION ALLIANCE		678-010 MAR-13 SHUTTLEWORTH CK	\$30,912.15
60200014H	6/18/2013	RCT00000000075738	OKANAGAN NATION ALLIANCE		SHUTTLEWORTH CREEK DIVERSION	\$2,966.69
60200014H	7/12/2013	RCT00000000077484	OKANAGAN NATION ALLIANCE		602-14H SHUTTLEWORTH CREEK DIV	\$4,664.18
60200014H	9/18/2013	RCT00000000081731	OKANAGAN NATION ALLIANCE		678-013 JUL-13 SHUTTLEWORTH CR	\$5,862.34
60200014H	10/2/2013	RCT00000000082697	OKANAGAN NATION ALLIANCE		602-14H	\$1,761.06
60200014H	12/18/2013	RCT00000000087909	OKANAGAN NATION ALLIANCE		678-015 OCT-13 SHUTTLEWORK CRD	\$8,158.03
60200014H	12/23/2013	RCT00000000088806	OKANAGAN NATION ALLIANCE		602-14H SHUTTLEWORTH CREEK DIV	\$0.90
60200014H	12/31/2013	RCT00000000089689	OKANAGAN NATION ALLIANCE		602-14H	\$3,369.18
60200014H	6/24/2014	RCT00000000100734	OKANAGAN NATION AQUATIC ENTERPRISES, LTD.		602-14H	\$69,490.27
60200014H	6/17/2014	RCT00000000100277	OKANAGAN NATION ALLIANCE		602-14H	\$41,787.06
60200014H	8/12/2014	RCT00000000104188	OKANAGAN NATION ALLIANCE		602-14H	\$24,508.75
60200014H	9/23/2014	RCT00000000107071	OKANAGAN NATION ALLIANCE		602-14H	\$240.49
Total Project Expenditures						<u>\$456,666.91</u>

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

<b>Remaining Project Balance</b>	<b>20,563.09</b>
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PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200016H	Open	602-16	Roaring Ck Restor/Div Removal			160,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200016H	9/18/2013	RCT00000000081693	TROUT UNLIMITED - WASH. WATER PR		602-16H	\$846.00
60200016H	12/18/2013	RCT00000000087908	TROUT UNLIMITED - WASH. WATER PROJECT		602-16 ROARING CREEK FLOW REST	\$3,287.26
60200016H	2/19/2014	RCT00000000091911	TROUT UNLIMITED - WASH. WATER PR		602-16H	\$708.73
60200016H	4/28/2014	RCT00000000096525	TROUT UNLIMITED - WASH. WATER PR		602-16H	\$2,400.00
60200016H	5/20/2014	RCT00000000098123	TROUT UNLIMITED - WASH. WATER PR		602-16H	\$1,181.30
Total Project Expenditures						8,423.29
<b>Remaining Project Balance</b>						<b>151,576.71</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200017H	Open	602-17	Robinson Acquisition		For the purchase of 18 acres including abo	270,065.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200017H	6/25/2013	RCT00000000076270	INLAND PROFESSIONAL TITLE, LLC		ROBINSON LAND ACQUISITION	\$257,466.96
60200017H	8/7/2013	RCT00000000079220	METHOW SALMON RECOVERY FNDN		602-17H ROBINSON LAND ACQUISIT	\$4,036.50
60200017H	1/22/2014	RCT00000000090167	METHOW SALMON RECOVERY FNDN		602-17H	\$241.50
60200017H	9/2/2014	RCT00000000105486	METHOW SALMON RECOVERY FNDN		602-17H	\$3,269.44
Total Project Expenditures						\$265,014.40
<b>Remaining Project Balance</b>						<b>5,050.60</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200020H	Open	602-20	Entiat Riv Cottonwood Phs 2			10,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200020H	2/26/2014	RCT00000000092308	CHELAN-DOUGLAS LAND TRUST		602-20H	\$5,000.00
Total Project Expenditures						5,000.00
<b>Remaining Project Balance</b>						<b>5,000.00</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200021H	Open	602-21	Barkley Irr Co. Diverson			299,380.00
<b>Project Expenditure Activity:</b>						

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200021H	10/22/2014	RCT00000000108842	TROUT UNLIMITED - WASH. WATER PRC		602-21H	\$16,100.00
60200021H	11/25/2014	RCT00000000111155	TROUT UNLIMITED - WASH. WATER PRC		602-21H	\$15,330.00
Total Project Expenditures						<u>31,430.00</u>
<b>Remaining Project Balance</b>						<b><u>267,950.00</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200023H	Open	602-23	Fish Jump Passage McIntyre			32,940.60
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200023H	9/23/2014	RCT000000000107070	OKANAGAN NATION ALLIANCE		602-23H	\$4,117.48
60200023H	11/4/2014	RCT000000000109803	OKANAGAN NATION ALLIANCE		602-23H	\$1,117.82
Total Project Expenditures						<u>\$5,235.30</u>
<b>Remaining Project Balance</b>						<b><u>27,705.30</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200024H	Open	602-24	ORRI-Spawning Platforms in Penticton Channel			391,200.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200024H	7/15/2014	RCT000000000102251	OKANAGAN NATION ALLIANCE		602-24H	\$33,572.50
60200024H	9/23/2014	RCT000000000107067	OKANAGAN NATION ALLIANCE		602-24H	\$36,732.97
60200024H	9/23/2014	RCT000000000107069	OKANAGAN NATION ALLIANCE		602-24H	\$57,034.78
60200024H	10/13/2014	RCT000000000108032	OKANAGAN NATION ALLIANCE		602-24H	\$36,285.05
60200024H	10/13/2014	RCT000000000108030	OKANAGAN NATION ALLIANCE		602-24H	\$70,435.86
60200024H	11/25/2014	RCT000000000111157	OKANAGAN NATION ALLIANCE		602-24H	\$4,297.22
Total Project Expenditures						<u>238,358.38</u>
<b>Remaining Project Balance</b>						<b><u>152,841.62</u></b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200025H	Open	602-25	Primary Appraiser Land Acq & Conservation Ease			50,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60200025H	9/23/2014	RCT000000000106943	CASCADE CHELAN APPRAISAL, INC		602-25H	\$10,800.00
Total Project Expenditures						<u>\$10,800.00</u>
<b>Remaining Project Balance</b>						<b><u>39,200.00</u></b>

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 602  
 As of November 30, 2014  
 Activity Detail and Project Balance

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200026H	Open	602-26	Lwr Nason Channel RM 2.4 Land			10,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
						Total Project Expenditures _____ -
						<b>Remaining Project Balance</b> <u><u>10,000.00</u></u>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200027H	Open	602-27	Silver Side Channel Pittag Array			123,638.30
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
						Total Project Expenditures _____ -
						<b>Remaining Project Balance</b> <u><u>123,638.30</u></u>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60200028H	Open	602-28	Newby Narrows			350,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
						Total Project Expenditures _____ -
						<b>Remaining Project Balance</b> <u><u>350,000.00</u></u>



**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 603  
 As of November 30, 2014  
 Activity Detail and Project Balance

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300016H	Open	603-16	Libby Ck Riparian Acquisition	WDFW	18.5 acres on Libby Creek, Methow basin	206,600.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300016H	10/7/2010	RCT00000000015539	WASHINGTON ST DEPT OF FISH & WILDLIFE		PR HABITAT CONSERVATION-LIBBY	\$714.92
60300016H	11/4/2010	RCT00000000017798	WASHINGTON ST DEPT OF FISH & WILDLIFE		PR HABITAT CONSV.LIBBY CREEK	\$489.56
60300016H	11/4/2010	RCT00000000017800	WASHINGTON ST DEPT OF FISH & WILDLIFE		PR HABITAT CONSERVATION-LIBBY	\$643.96
60300016H	11/12/2010	RCT00000000018635	WASHINGTON ST DEPT OF FISH & WILDLIFE		LIBBY CREEK HABITAT	\$5,731.52
60300016H	12/31/2010	RCT00000000021924	WASHINGTON ST DEPT OF FISH & WILDLIFE		LIBBY CREEK HABITAT	\$258.23
60300016H	12/31/2010	RCT00000000021454	WASHINGTON ST DEPT OF FISH & WILDLIFE		LIBBY CREEK HABITAT	\$2,053.16
60300016H	2/23/2011	RCT00000000024036	WASHINGTON ST DEPT OF FISH & WILDLIFE		LIBBY CREEK	\$130,387.58
60300016H	3/2/2011	RCT00000000024403	WASHINGTON ST DEPT OF FISH & WILDLIFE		PR HABITAT CONSERVATION-LIBBY	\$439.03
60300016H	7/22/2011	RCT00000000033027	WASHINGTON ST DEPT OF FISH & WILDLIFE		LOWER LIBBY CREEK	\$189.08
60300016H	8/31/2011	RCT00000000035330	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-16 LIBBY CREEK JUN-11	\$521.61
60300016H	12/19/2012	RCT00000000063918	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-164	\$334.18
60300016H	2/5/2014	RCT00000000091068	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-16H	\$408.51
60300016H	7/7/2014	RCT00000000101594	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-16H	\$23.81
60300016H	11/10/2014	RCT00000000110215	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-16H	\$498.47
456,241.00 Total Project Expenditures						\$142,693.62
<b>Remaining Project Balance</b>						<b>63,906.38</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300022H	Open	603-22	White River Gage Station			22,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300022H	10/25/2012	RCT00000000060464	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$103.09
60300022H	11/19/2012	RCT00000000062010	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$115.98
60300022H	1/24/2013	RCT00000000066317	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$343.86
60300022H	3/5/2013	RCT00000000068904	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$181.18
60300022H	5/1/2013	RCT00000000072960	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$811.71
60300022H	6/26/2013	RCT00000000076515	WASHINGTON ST DEPT OF ECOLOGY		603-22H WHITE RIVER GAGE STAT	\$354.48
60300022H	7/29/2013	RCT00000000078501	WASHINGTON ST DEPT OF ECOLOGY		603-22 WHITE RIVER GAGE STATIO	\$360.76
60300022H	8/14/2013	RCT00000000079600	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$249.34
60300022H	11/4/2013	RCT00000000084776	WASHINGTON ST DEPT OF ECOLOGY		603-22 WHITE RIVER GAGE STATIO	\$571.21
60300022H	12/31/2013	RCT00000000088821	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$671.76
60300022H	1/22/2014	RCT00000000090183	WASHINGTON ST DEPT OF ECOLOGY		603.22H WHITE	\$13.82
60300022H	2/26/2014	RCT00000000092387	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$3,233.43
60300022H	3/17/2014	RCT00000000093607	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$1,081.97
60300022H	4/28/2014	RCT00000000096536	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$1,655.10
60300022H	5/20/2014	RCT00000000098092	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$1,336.73
60300022H	6/23/2014	RCT00000000100593	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$748.43
60300022H	7/28/2014	RCT00000000103097	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$647.59
60300022H	9/9/2014	RCT00000000105973	WASHINGTON ST DEPT OF ECOLOGY		603-22H	\$1,807.75
Total Project Expenditures						\$14,288.19
<b>Remaining Project Balance</b>						<b>7,711.81</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300024H	Open	603-24	Barkley Irrigation Diversion			220,866.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300024H	10/24/2012	RCT00000000060356	TROUT UNLIMITED - WASH. WATER PROJECT		BARKLEY IRRIGATION DITCH DIVEI	\$168,288.39
60300024H	12/6/2012	RCT00000000063151	TROUT UNLIMITED - WASH. WATER PROJECT		BARKLEY IRRIGATION DITCH DIVEI	\$2,018.22

**PRCC - Habitat Funds**  
Habitat Supplemental - Fund 603  
As of November 30, 2014  
Activity Detail and Project Balance

60300024H	12/21/2012	RCT00000000064115	TROUT UNLIMITED - WASH. WATER PROJECT	603-24 BARKLEY IRRIG DITCH DIV	\$1,294.58
60300024H	10/24/2013	RCT00000000084177	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$28,036.95
60300024H	12/18/2013	RCT00000000087930	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$3,999.91
60300024H	9/23/2014	RCT00000000107064	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$3,920.59
60300024H	10/13/2014	RCT00000000108012	TROUT UNLIMITED - WASH. WATER PROJECT	603-24H	\$3,015.35
Total Project Expenditures					\$210,573.99
<b>Remaining Project Balance</b>					<b>10,292.01</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300025H	Open	603-25	Methow River 1890's Side Channel Acquisition			90,000.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300025H	9/2/2014	RCT00000000105491	CONFEDERATED TRIBES & BANDS OF THE YAKAMA N		603-25H	\$75,000.00
Total Project Expenditures						\$75,000.00
<b>Remaining Project Balance</b>						<b>15,000.00</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300026H	Open	603-26	Okan River Discharge Monitor			90,952.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300026H	5/9/2014	RCT00000000097360	COLVILLE CONFEDERATED TRIBES		603-26H	\$13,430.00
60300026H	6/17/2014	RCT000000000100280	COLVILLE CONFEDERATED TRIBES		603-26H	\$13,430.00
60300026H	11/25/2014	RCT000000000111160	COLVILLE CONFEDERATED TRIBES		603-26H	\$13,430.00
Total Project Expenditures						\$40,290.00
<b>Remaining Project Balance</b>						<b>50,662.00</b>

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300027H	Open	603-27	Icicle IRR Pump Exch Analysis		To determine the feasibility, of constructing additional pumping	174,847.00
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300027H	12/18/2013	RCT00000000087932	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$9,960.00
60300027H	12/31/2013	RCT00000000089688	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$38,682.11
60300027H	2/19/2014	RCT00000000091872	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H ICICLE-PESHASTIN IRRIG	\$4,285.00
60300027H	3/17/2014	RCT00000000093598	TROUT UNLIMITED - WASH. WATER PROJECT		ICICLE-PESHASTIN ANALYSIS FOR	\$12,720.00
60300027H	4/28/2014	RCT00000000096537	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$30,006.90
60300027H	5/20/2014	RCT00000000098121	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$21,630.00
60300027H	6/17/2014	RCT00000000100298	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$17,733.75
60300027H	7/29/2014	RCT00000000103144	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$13,443.75
60300027H	8/15/2014	RCT00000000104443	TROUT UNLIMITED - WASH. WATER PROJECT		603-27H	\$16,343.00
Total Project Expenditures						\$164,804.51
<b>Remaining Project Balance</b>						<b>10,042.49</b>

**PRCC - Habitat Funds**  
 Habitat Supplemental - Fund 603  
 As of November 30, 2014  
 Activity Detail and Project Balance

PID	Status	HCFA	Name/Description	Contractor	Description	Project Budget Amount
60300028H	Open	603-28	Icicle Creek Boulder Pit Tag Array			0 167,097.87
<b>Project Expenditure Activity:</b>						
Project ID	Acctg Date	Voucher / PA Document No.	Vendor Name	Invoice Ref	Item Description	Expenditure Amount
60300028H	7/15/2014	RCT00000000102230	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-28H	\$213.01
60300028H	9/9/2014	RCT00000000105984	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-28H	\$11,331.77
60300028H	9/30/2014	RCT00000000107519	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-28H	\$13,829.40
60300028H	10/22/2014	RCT00000000108843	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-28H	\$15,401.45
60300028H	11/10/2014	RCT00000000110214	WASHINGTON ST DEPT OF FISH & WILDLIFE		603-28H	\$75,238.65
Total Project Expenditures						<u>\$116,014.28</u>
<b>Remaining Project Balance</b>						<b><u>51,083.59</u></b>