

NORTH UMPQUA HYDROELECTRIC PROJECT

FERC P-1927

Protection, Mitigation, and Enhancement Measures



2009 Annual Report

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Executive Summary

PacifiCorp Energy (“PacifiCorp”) is implementing Protection, Mitigation, and Enhancement (PM&E) Measures on the North Umpqua Hydroelectric Project (“Project”) identified in the June 13, 2001 Settlement Agreement (“Settlement Agreement, or SA”) and the Federal Energy Regulation Commission (FERC) license (FERC P-1927) issued on November 18, 2003. The license was considered final on October 18, 2005, as defined in the Settlement Agreement. This milestone initiated full implementation of PM&E Measures identified in the Settlement Agreement. This annual report documents PacifiCorp’s project and fiduciary activities from January to December 2009.

Representatives from the four federal and three state agencies that signed the Settlement Agreement, in addition to PacifiCorp, function as the Resource Coordination Committee (RCC), which facilitates activities associated with the Settlement Agreement. During the reporting period, the RCC conducted 11 regularly scheduled meetings that involved opportunities for public participation. As in past years, the RCC again sponsored an on-site public tour of ongoing implementation projects on October 21, 2009.

The PM&E Measures follow a schedule outlined in the Settlement Agreement. License PM&E Measures for this reporting year are those due between January and December 2009.

In 2009, key accomplishments included:

- Development of the 100% design of the Soda Springs fish passage facilities, overcoming a design challenge for returning screened juvenile fish to the river (SA Section 4.1.1, 4.1.2).
- Reaching consensus on a conceptual design for the Slide Creek tailrace barrier (SA Section 4.1.1f).
- Completion of a biological evaluation of the downstream fish screen at Fish Creek (SA Section 4.3.2a).
- Continuing an experimental water management regime and monitoring at Lemolo Reservoir in an effort to develop a long-term solution to blooms of blue-green algae.
- Construction of an aquatic site reconnection along the Lemolo No. 2 waterway, setting the stage for providing connectivity at 54 such sites by 2016 (SA Section 10.6).
- Completion of enhancement of Ranawapiti wetland near the Clearwater waterway. Substantial progress was made in completing a wetland creation project at the planned Lemolo 1 forebay expansion; scheduled for completion in 2010 (SA Section 11.5).
- Completion of construction of a canal shutoff and drainage system along the Lemolo No. 2 waterway, and successfully testing a similar facility at the Clearwater No. 2 waterway (SA Section 14.2).
- Remediation of three erosion sites, bringing to a total of 48 erosion sites completed since signing of the Settlement Agreement (SA Section 14.4).

- Ongoing research at East Fork Rock Creek, part of a long-term study that will guide future use of funding to provide for aquatic resources in the Rock Creek basin (SA Section 19.1).
- Continued monitoring of fish populations to characterize baseline conditions from which to measure the success of providing anadromous fish passage at Soda Springs dam (SA Section 19.2).
- Completion of 5-year rolling action plans, as part of various Management Plans that provide long-term guidance for cooperative management of multiple resources within the Project area (SA Section 21.1).

The RCC met in January to plan actions for 2009, as specified in the Resource Coordination Plan. This forum is conducted annually to coordinate the Parties' collaborative efforts in meeting the intent of the Settlement Agreement. Regularly scheduled RCC meetings will continue to oversee current and future PM&E Measures.

SECTION 1.0 INTRODUCTION

Located on the west side of the Cascades mountain range in southern Oregon, the North Umpqua Hydroelectric Project consists of eight dams that have a combined capacity to generate 194 megawatts of power. The project was constructed between 1947 and 1956.

In the early 1990s, as the expiration of the first FERC license approached, PacifiCorp initiated the relicensing application preparation process with FERC. In June 2001, the relicensing process culminated in the development and signing of the North Umpqua Hydroelectric Project Settlement Agreement. The Settlement Agreement identifies annual reporting requirements that range from fiduciary reporting to narrative description of actions. This annual report represents a calendar year timeframe (January to December 2009) and contains the following reporting requirements:

- SA Section 7.2.3 (amended) Gravel Augmentation Program Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 8.3.5 (amended) North Umpqua River Habitat Restoration/Creation Project Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 19.1.1.3 Tributary Enhancement Program Funding and Accounting: Written annual report describing the amounts deposited and disbursed.
- SA Section 19.3.1 Mitigation Fund Annual Reporting: Written annual report describing the amounts deposited and disbursed.
- SA Section 21.4.2 Environmental Coordinator Reports: An annual report on the activities of the RCC and on the implementation of the PM&E Measures.

1.1 Background

On June 13, 2001, PacifiCorp filed a Settlement Agreement pursuant to FERC Rule 602, 18 Code of Federal Regulations §385.602, to resolve issues concerning the relicensing of the North Umpqua Hydroelectric Project (FERC P-1927). Parties to the Settlement Agreement include PacifiCorp, the USDA Forest Service (USDA-FS), the USDI Fish and Wildlife Service (USFWS), the USDI Bureau of Land Management (BLM), the National Marine Fisheries Service (NMFS), the Oregon Department of Environmental Quality (ODEQ), the Oregon Department of Fish and Wildlife (ODFW), and the Oregon Water Resources Department (OWRD), referred to collectively as the “Parties.” As required by statute, FERC conducted a National Environmental Policy Act (NEPA) process that concluded with a Final Environmental Impact Statement (FEIS) issued in March 2003. Based on the findings of the

FEIS, FERC developed articles for a new license for the North Umpqua Hydroelectric Project. FERC formally issued the new license on November 18, 2003, designating a term of 35 years.

Under the provisions of the Settlement Agreement, the license is not final until all administrative and judicial appeals are exhausted. The license was appealed to the Ninth U.S. Circuit Court of Appeals on May 21, 2004. On September 1, 2005, the Court ruled the case in favor of FERC, USDA-FS, and PacifiCorp. The license was therefore considered final on October 18, 2005.

Copies of the Settlement Agreement and the FERC license are available from FERC upon request or on the PacifiCorp Web site at: <http://www.pacificorp.com/es/hydro/hl/nur.html#>

1.2 Resource Coordination Committee

SA Section 21 establishes a process to facilitate coordination and decision-making concerning implementation of Settlement Agreement measures. To accomplish this objective, SA Section 21.1 provides for the creation of the Resource Coordination Committee (RCC) consisting of representatives from the signing Parties. The purposes of the RCC, discussed in detail in SA Section 2.0, include: 1) facilitate coordination and consultation on plans developed by PacifiCorp for the implementation of PM&E Measures; 2) coordinate the implementation of PM&E Measures and ongoing monitoring requirements by PacifiCorp; 3) establish appropriate procedures for conducting activities; and 4) establish subcommittees to accomplish these objectives.

1.3 Report Organization and Review

The 2009 North Umpqua Hydroelectric Project Annual Report provides the following information:

Section 1.0 Introduction

Section 2.0 Resource Coordination Committee

- Section 2.1 RCC Roles and Responsibilities
- Section 2.2 RCC Members
- Section 2.3 RCC Meetings

Section 3.0 Protection, Mitigation, and Enhancement Measures

- Section 3.1 Implementation of PM&E Measures
- Section 3.2 FERC License Actions

Section 4.0 Fiduciary Reporting

Section 5.0 Conclusion

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SECTION 2.0

RESOURCE COORDINATION COMMITTEE

This section provides an overview of RCC roles and responsibilities according to the Settlement Agreement and as subsequently implemented. It also presents a summary of RCC meetings held during the reporting period, including major discussion points, decisions, and action items associated with each meeting.

2.1 RCC Roles and Responsibilities

The purpose and role of the RCC, as defined in SA Section 21.1, is to facilitate coordination and implementation of PM&E Measures. The RCC also looks at implementation requirements, and through collaboration and sharing of information, works to achieve desired results. Specifically excluded from RCC responsibility and authority is the administration of the Tributary Enhancement Program and Mitigation Fund set forth in SA Section 19. However, responsible Parties may consult with the RCC concerning measures conducted pursuant to this program and fund.

The structure and process of the RCC is intended to provide a forum to address time-sensitive matters, give early warning of problems, and coordinate member organization actions, schedules, and decisions to save time and expense. As described in the Settlement Agreement, the RCC must endeavor to conduct its business by consensus. However, in the event of disagreements, the Parties may refer disagreements to appropriate policy-level decision-makers. Decisions of the RCC may not usurp the authority of individual Parties or specific governmental agencies identified in the Settlement Agreement as having approval authority regarding specific PM&E Measures.

The RCC is responsible for the following measures pursuant to the Settlement Agreement:

- Facilitate coordination of the implementation of the Resource Coordination Plan (RCP), including ongoing operations and maintenance (SA Section 21.1).
- Coordinate the implementation of PM&E Measures and ongoing monitoring requirements by PacifiCorp (SA Section 21.1).
- Coordinate responses and evaluations specifically assigned to the RCC (SA Sections 8.2.2, 8.3.3, 12.2, 14.3.3, 14.5, 17.8, 19.2.1 and 22.5.2, and SA Amendment Section 7.2).
- Facilitate coordination and consultation on plans developed by PacifiCorp (SA Section 21.1).
- Review and comment on the draft annual report of RCC activities and implementation of PM&E Measures (SA Section 21.4.2).

- Serve as a common point of contact for public information regarding Settlement Agreement implementation.

The following measures are specifically excluded from RCC responsibility:

- Administration of the Tributary Enhancement Program through ODFW's Memorandum of Understanding (SA Section 19.1).
- Administration of the Mitigation Fund through USDA-FS (SA Section 19.3).
- Approval of plans and actions regarding specific PM&E Measures assigned to individual organizations for resource protection (SA Section 21.2).

The RCC defined discrete goals and functional responsibilities to enhance its effectiveness:

- Interpret the Settlement Agreement: Apply provisions to on-the-ground planning and implementation.
- Monitor implementation of the Settlement Agreement as a whole to provide a wider view than one agency's perspective.
- Avoid surprises and errors through effective communication.
- Track progress: Serve as the interface for the Parties as implementation takes place.
- Identify policy issues: As policy issues arise, work collectively to define and clarify the issues and options for transmittal to the executive members of the Parties.
- Provide public information: Serve as a point of information regarding Settlement Agreement implementation with a collective voice.
- Promote efficiency: Share information among organizations; communicate changes in policy, procedure, or regulation; consult before decision-making; and share technical resources.
- Implement the Settlement Agreement collaboratively to ensure that all Parties' interests continue to be valued throughout the new license term.
- Effectively communicate its progress through the development of a Web site at: <http://www.pacificorp.com/es/hydro/hl/nur.html#>

2.2 RCC Members

The Parties have each appointed a member and an alternate to the RCC. The members are shown in Table 2.2-1. The RCC members work with a designated caucus within their respective organizations.

TABLE 2.2-1
2009 Resource Coordination Committee Members

RCC Member	Organization
Pam Sichting	USDA Forest Service, Umpqua National Forest, Roseburg, Oregon
Jim Thrailkill	USDI Fish and Wildlife Service, Roseburg, Oregon
Ariel Hiller	USDI Bureau of Land Management - Roseburg District, Roseburg, Oregon
Ed Meyer	National Marine Fisheries Service, Portland, Oregon
Dave Harris	Oregon Department of Fish and Wildlife, Roseburg, Oregon
Chris Stine	Oregon Department of Environmental Quality, Eugene, Oregon
Craig Kohanek	Oregon Water Resources Department, Salem, Oregon
Monte Garrett	PacifiCorp Energy, Portland, Oregon

2.3 RCC Meetings

During the reporting period, the RCC conducted 11 regularly scheduled meetings to finalize study plans, discuss implementation objectives for PM&E Measures, and facilitate the overall Settlement Agreement implementation. In addition to these regularly scheduled meetings, an annual work planning session is held in January each year to discuss what worked well and what could be improved, and to review project work plans (including the SA 19.3 Mitigation Fund projects) for the coming year. The formal ground rules established and adopted by the RCC provide the functional framework for this collaborative work. These ground rules are provided on the PacifiCorp Web site at:

http://www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Hydro/Hydro_Licensing/North_Umpqua_River/RCC_Ground_Rules.pdf

Meeting summaries are drafted for RCC meetings. The draft summaries are distributed to the RCC members for review and comment. At a subsequent meeting, after corrections have been made as appropriate and when work in progress is completed, the RCC approves the summaries by consensus. Meetings are open to the public for comment, and any comments received are added to the meeting summaries.

This section summarizes the issues covered at RCC meetings and the items where consensus was reached during the reporting period. Meeting summaries are provided on the PacifiCorp Web site at: <http://www.pacifiCorp.com/es/hydro/hl/nur.html#>

RCC Meeting No. 1
February 18, 2009

- Approved a nine-month lump sum payment for SA 19.2 ODFW EBA positions.

RCC Meeting No. 2
March 18, 2009

- Final designs for both the Ranawapiti and Lemolo 1 forebay wetlands have been approved by all parties.
- Approved invoice for full funding of SA 19.2 ODFW personnel for 2009.
- Soda Springs fish passage design and O&M plans were finalized for filing with FERC/D.C.
- Final design for the Lemolo 2 Canal Shutoff & Drainage project was approved by authorizing agencies.

RCC Meeting No. 3
April 15, 2009

- Approved ramp rate modification for a second Clearwater 2 canal shutoff & drainage performance test.
- Approved use of electrofishing boat for Lemolo 2 forebay fish salvage, as well as assistance from ODFW EBA technicians.
- Approved allowance for special flow management during Soda Springs fish passage construction, to minimize attraction of fish into the bypass reach and construction area during 2010-2011 in-water construction seasons.
- Approved *Proposal for Experimental Management of Lemolo Reservoir for 2009*.

RCC Meeting No. 4
May 20, 2009

- All permits are in hand for the Soda Springs fish passage project.
- Agreed to modify the experimental operations of Lemolo Reservoir such that the target range of 4,142 +/- 2 feet would not need to be achieved until May 23, and the trap netting would not be expected to being until May 27.

RCC Meeting No. 5
June 17, 2009

- Construction of the Lemolo 2 canal shutoff & drainage project has begun.
- The Soda Springs tailrace barrier baffle prototype test is being implemented.
- The Watson Ridge project has been fully approved (permits and lease).
- Approved *Lemolo Reservoir Experimental Water Levels 2009 - Modification 2*.

RCC Meeting No. 6
July 15, 2009

- The Lemolo 2 Reroute geotechnical investigation is underway.

RCC Meeting No. 7
August 19, 2009

- Approved a one-day ramp rate modification in the Slide Creek bypass reach, to verify the feasibility of the new gage site for Slide Creek instream flow.
- The Lemolo 2 Reroute geotechnical investigation is complete.

RCC Meeting No. 8
September 16, 2009

- Approved three aquatic site reconnections for completion this year.
- Scheduled the annual public tour for October 21, 2009.

RCC Meeting No. 9
October 21, 2009

- Received FERC approval to start the Soda Springs fish passage minimum instream flow project.
- Received FERC approval to provide aquatic connectivity at the three RCC approved site locations.

RCC Meeting 10
November 18, 2009

- Scheduled the annual planning workshop for January 14-15, 2010.
- The Lemolo 2 forebay dredging/Lemolo 2 plant overhaul project is complete.
- The Watson Ridge communication facility is constructed.
- Received FERC approval for geotechnical borings at five locations in the vicinity of the Slide Creek tailrace barrier footprint.

RCC Meeting 11
December 16, 2009

- The Soda Springs fish passage minimum instream flow facility is in place.
- The three aquatic connectivity sites have been completed.
- Approved the 2010 SA 19.2 Long Term Monitoring/Predator Control budget.

SECTION 3.0

PROTECTION, MITIGATION, AND ENHANCEMENT MEASURES

This section presents 2009 progress of PM&E Measures defined in the North Umpqua Settlement Agreement and the FERC license. A summary of all documents submitted to FERC and their current status is also presented.

The Parties have agreed to modify the schedule of PM&E Measures, if necessary. In such instances, the Parties may convene and modify Settlement Agreement implementation dates if all Parties are in agreement that such modifications are warranted. Delays in implementation are typically needed only to further refine plans for the action in order to ensure greater success.

3.1 Implementation of PM&Es

The schedule for all PM&E Measures and their status is presented in Table 3.1-1. The status of the PM&E Measures specific to the timeframe of this report is presented in Table 3.1-2.

During the report period, Settlement Agreement and license actions focused on planning, monitoring, construction projects, and engineering designs. All Parties have worked cooperatively toward meeting Settlement Agreement schedule commitments.

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TABLE 3.1-1
Implementation Schedule and Status of PM&E Measures

Key	
	Due Date
x	In Progress
•	Complete

		YEAR														
SA Section	PM&E	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
4.0 FISH PASSAGE MEASURES																
4.1.1(a)	Soda Springs Fish Ladder Design						x	x	x	●						
4.1.1(d)	Soda Springs Fish Ladder O&M/ Evaluation Plan						x	x	x	●						
4.1.1(e)	Soda Springs Fish Ladder Construction															
4.1.1(f)	Soda Springs Tailrace Barrier Design/Construction					x	x	●								
4.1.1(f)	Slide Creek Tailrace Barrier Design									x						
4.1.1(f)	Slide Creek Tailrace Barrier Construction															
4.1.2(a)	Soda Springs Downstream Screen Design						x	x	x	●						
4.1.2(b)	Soda Springs Downstream Screen O&M/Evaluation Plan						x	x	x	●						
4.1.2(d)	Soda Springs Downstream Screen Construction															
4.1.2(f)	Soda Springs Downstream Passage Spillway Modifications Design						x	x	x	●						
4.1.2(f)	Soda Springs Downstream Passage Construction															
4.3.1(a)	Lemolo 2 Fishway Modifications Design				x	●										
4.3.1(a)	Lemolo 2 Fishway Modifications Construction					x	●									
4.3.1(c/d)	Lemolo 2 Fishway Modifications O&M/ Evaluation Plan				x	●										
4.3.1(d)	Lemolo 2 Post-construction Evaluation							x	●							
4.3.2(a)	Fish Creek Downstream Screen Design					x	x	●								
4.3.2(a)	Fish Creek Downstream Screen Construction							x	●							
4.3.3	Toketee Trashrack Modification								x	x						
5.0 INSTREAM FLOWS																
5.1	Soda Springs Table 1 Flows			●												
5.1	Implement Table 1 Flows					●										
5.1	Implement Table 2 Flows															
5.3	Reconsideration of Instream Flows					●										
5.4	Lemolo 2 Full Flow Reach					x	x	x	x	x						
5.5	Instream Flow Gage Installation		●													
5.5	Instream Flow Monitoring Plan		x		●											

TABLE 3.1-1
Implementation Schedule and Status of PM&E Measures

Key	
	Due Date
x	In Progress
•	Complete

		YEAR														
SA Section	PM&E	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
4.0 FISH PASSAGE MEASURES																
5.6	ODFW Holding Ponds Water Supply	●	●	●	●	●	●	●	●	●						
6.0 RAMPING																
6.1	Lemolo 2 Full Flow Reach Installation					x	x	x	x	x						
6.2.1	Slide Creek Ramping Monitoring Plan															
6.2.1	Slide Creek Ramping Monitoring Plan Implementation															
6.4	Wild & Scenic Ramping Restrictions	●	●	●	●	●	●	●	●	●						
6.5	Bypass Reach Ramping Restrictions (0.2 ft/hr)	●	●	●	●	●										
6.6	Project Maintenance - Appendix D Schedule						●	●	●	●						
6.7	Emergency Shutdown Ramp Restrictions						●	●	●	●						
6.8	Soda Springs Emergency Bypass Valve				●											
6.9	Slide Creek Emergency Bypass Valve Evaluation						x	x	x	●						
7.0 RESTORATION OF FLUVIAL PROCESSES																
7.1	Gravel Augmentation below Soda Springs Dam				●											
7.2	Gravel Augmentation Program	●	●	●	●	●	●	●	●	●						
7.3	Passage of Woody Debris	●	●	●	●	●	●	●	●	●						
7.4	Passage of Sediment (if high flows present)	●	●	●	●	●	●	●	●	●						
7.5	Reconnection of Clearwater River - Design					●										
8.0 MAINSTEM HABITAT ENHANCEMENT																
8.2.1	Slide Creek Implementation Plan	x	●													
8.2.2	Slide Creek Monitoring Plan		x	x	●											
8.2.3	Slide Creek Baseline Habitat Survey		●													
8.2.4	Slide Creek Test Boulder Placement		●	●	●	●										
8.3.1	Soda Springs Feasibility Assessment			●												
8.3.2	Soda Springs Implementation Plan			●												
8.3.3	Soda Springs Monitoring Plan			●												

TABLE 3.1-1
Implementation Schedule and Status of PM&E Measures

Key	
	Due Date
x	In Progress
•	Complete

		YEAR														
SA Section	PM&E	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
8.3.4	Soda Springs Baseline Habitat Survey and Monitoring Plan				●											
8.3.5	Soda Springs Funding and Accounting				●	●	●	●	●	●						
8.3.6	Soda Springs Completion				●											
9.0 RESERVOIR AND FOREBAY MANAGEMENT																
9.1	Stocking of Rainbow Trout Funding				●	●	●	●	●	●						
9.2	Rainbow Trout Broodstock Development				●											
9.3	Management of Lemolo Lake Reservoir	●	●	●	●	●	●	●	●	●						
9.3.3	Lemolo Reservoir Fluctuations (0.5 ft/day)						●	●	●	●						
9.5	Salvage of Fish During Shutdowns	●	●	●	●	●	●	●	●	●						
10.0 AQUATIC RESOURCES																
10.2	Stump Lake Connectivity Invertebrate Ladder						x	x	●							
10.3	Clearwater River Reconnection Design/Construction					x	●									
10.4	Diversion Structure Removal - Lemolo Named Creeks			●												
10.4	Potter Creek Diversion Removal					●										
10.4	Deer Creek Diversion Removal						●									
10.5	Riparian Restoration - White Mule Creek						x	●								
10.5	Riparian Restoration - Potter Creek		x	x	x	x	●									
10.6	Reconnecting Aquatic Connectivity Sites						x	x	x	x						
11.0 TERRESTRIAL RESOURCES																
11.1	Big Game Bridge Widening (29)				●											
11.2	Wildlife Crossings (39)						x	x	x	●						
11.3	Wildlife Monitoring Plan						x	●								
11.4	Wildlife Underpasses (9)					●										
11.5	Stump Lake Wetland						●									
11.5	Stinkhole Wetland															
11.5	Ranawapiti Pond Wetland									●						
11.5	Lemolo/Forebay Expansion Area								x	x						
11.5	Lemolo Lake Wetland							●								
11.5	Wetland Areas: #1, #2, & #3															

TABLE 3.1-1
Implementation Schedule and Status of PM&E Measures

Key	
	Due Date
x	In Progress
•	Complete

		YEAR														
SA Section	PM&E	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
12.0 VEGETATION MANAGEMENT																
12.1	Vegetation Management Plan Development and Implementation				●	●	●	●	●	●						
12.2	Noxious Weed Control	●	●	●	●	●	●	●	●	●						
13.0 AVIAN PROTECTION																
13.4	Records & Database Management System	●	●	●	●	●	●	●	●	●						
14.0 EROSION & SEDIMENT CONTROL																
14.2	Canal Shutoff & Drainage System - Fish Creek						X	X	●							
14.2	Canal Shutoff & Drainage System - Clearwater 2							X	●							
14.2	Canal Shutoff & Drainage System - Lemolo 2								X	●						
14.4.2	High Priority Erosion Sites: Fish Creek				●											
14.4.2	High Priority Erosion Sites: Clearwater & Lemolo				X	X	X	X	X	X						
14.4.3	Medium Priority Erosion Sites (27)				X	X	X	X	X	X						
14.5	Erosion Monitoring	●	●	●	●	●	●	●	●	●						
14.7	Seismic & Geological Hazard Evaluation			●												
15.0 TRANSPORTATION																
15.1	Transportation Management Plan				●											
15.1	Transportation Management Plan Implementation				●	●	●	●	●	●						
15.2	PPL Roads to USDA-FS Standards	●	●	●	●	●	●	●	●	●						
15.3	Cost Sharing for Joint Roads and Maintenance					●	●	●	●	●						
15.4	Road Decommissioning		X	X	X	X	X	X	X	X						
15.5	Bridges - Inspections/Maintenance	●	●	●	●	●	●	●	●	●						
15.5.1	Bridge Maintenance Cost Sharing					●	●	●	●	●						
15.6	Fish Culvert Upgrades					X	X	X	X	X						
15.6	100-Year Flood Culvert Upgrades			X	X	X	X	X	X	X						
15.6	Culvert Maintenance on PPL Use Roads		●	●	●	●	●	●	●	●						
16.0 AESTHETICS																
16.1	Aesthetics Management Plan Implementation				●	●	●	●	●	●						
16.2	Landscaping Clearwater Shop						X	●								

TABLE 3.1-1
Implementation Schedule and Status of PM&E Measures

Key	
	Due Date
x	In Progress
•	Complete

		YEAR														
SA Section	PM&E	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015+
16.2	Landscaping Clearwater Switchyard						X	●								
16.4	Transmission Line Evaluation (Design)					●										
16.4	Transmission Line Mitigation (11 Sites)								X	X						
17.0 RECREATION																
17.2	Recreation O&M Funding				●	●	●	●	●	●						
17.7	Law Enforcement Funding				●	●	●	●	●	●						
17.8	Recreation - Deferred Capital Improvement Funding		●	●	●			●								
17.8	Recreation - Capital Improvements							●	●	●						
17.9	Public Information Funding				●	●	●	●	●	●						
17.10	Annual Monitoring Funding				●	●	●	●	●	●						
17.11	Recreation: NW Forest Plan Compliance Funding				●			●								
18.0 CULTURAL																
18.1	Historic Properties Management Plan			X	X	X	●									
18.1	Historic Properties Management Plan Implementation					●	●	●	●	●						
18.3/18.6	Site Discovery/Monitoring	●	●	●	●	●	●	●	●	●						
18.4	Protection, Restoration, and Recovery				●	●	●	●	●	●						
19.0 MITIGATION																
19.1.1	Tributary Enhancement Account (MOU) Funding				●	●	●	●	●	●						
19.1.1	Tributary Enhancement Account - Use of Funds					●	●	●	●	●						
19.2	Long-Term Monitoring/Predator Control Funding				●	●	●	●	●	●						
19.2.1	Long-Term Monitoring/Predator Control Disbursements				●	●	●	●	●	●						
19.3.3	Federal Mitigation Funding				●	●	●	●	●	●						
19.5	Early Implementation Funding		●	●	●	●										
19.5.2	Early Implementation Fund Annual Reporting		●	●	●	●										
21.0 COORDINATION & DECISION-MAKING																
21.1	Resource Coordination Committee	●	●	●	●	●	●	●	●	●						
21.1	Resource Coordination Plan - Developed and Implemented					X	●	●	●	●						
21.4.2	Annual Report		●	●	●	●	●	●	●	●						
21.5	Site Specific Plan Development	●	●	●	●	●	●	●	●	●						

TABLE 3.1-2
2009 Status of PM&E Measures

SA Section	PM&E	Due Date	Status
4.1	Fish Passage at Soda Springs Dam Design/Construct/Evaluate/Operations and Maintenance	2009 – design and prepare plans 2011 – complete construction 2012 – complete evaluation	Design progressed to 100%, assisted by completion of a hydraulic model. Final design and plans (O&M and evaluation) were completed in December 2009. Construction will begin in 2010 and conclude in 2011. The minimum in-stream flow structure construction was completed in 2009. This structure will provide in-stream flow during construction dewatering.
4.1.1(f)	Soda Springs Tailrace Barrier Design/Construct	2007	The project was built and became operational in 2007. In 2009 a pilot study was initiated in consultation with NMFS to evaluate baffling methods for better balancing water velocities.
4.1.1(f)	Slide Creek Tailrace Barrier & Bypass Design /Construct Refer to SA Section 6.9 for Bypass project	2009 – conceptual design 2010 – complete design, plans, permits 2011 – complete construction 2012 – complete evaluation	Conceptual designs were provided and evaluated by TWG members with one selected in November, 2009.
4.3.2(a)	Fish Creek Downstream Fish Passage Design/Construct/Evaluate/Operations and Maintenance	2005/2008	The biological evaluation was done in 2009 and the final evaluation report issued in November. The project is performing according to design expectations.
4.3.3	Toketee Trash Rack Modifications	2010	An engineer-procure-construct contract was awarded in November 2009 for design and construction during 2010.

SA Section	PM&E	Due Date	Status
5.1	Instream Flow Increases in Project Bypass Reaches	2005	New minimum flows are assured by a combination of new and existing facilities in all bypass reaches. The last of these new facilities at Slide Creek dam became operational in 2009. River gage relocation is planned in 2010 to support use of this facility.
5.4, 6.1	Lemolo 2 Full-Flow Reach	2011	Cultural clearances were completed to support geotechnical explorations in 2009. Final design and permitting is expected in 2010, and construction in 2011.
5.5	Instream Flow Monitoring Plan	Ongoing	Monitoring and reporting continues as required in the Plan.
6.4	Wild and Scenic Ramping Restrictions	Ongoing	Ramp rate requirements have been followed within equipment limitations per the Flow Monitoring Plan.
6.5, 6.6	Bypass Reach Ramping Restrictions	Ongoing	New ramping restrictions have been followed per the Flow Monitoring Plan.
6.9	Slide Creek Powerhouse Emergency Ramping Evaluation (Refer to SA Section 4.1.1(f) (Slide Creek) for the combined projects)	2006 No required date –current completion schedule is the same as the Slide Creek tailrace barrier	Evaluation was completed and conclusions will be considered during design and construction of the Slide Creek tailrace barrier. An emergency bypass gate will be provided at the penstock intake's side channel spillway. Conceptual designs were provided to TWG members and an option was agreed upon by November 2009.
7.2	Gravel Augmentation Program (as per SA Amendment No. 1)	2002+	Monitoring continues on the results of the experimental gravel pulse built in 2004 and subsequent gravel dynamics. The TWG will use these findings to modify the implementation and monitoring plans for long-term use.

SA Section	PM&E	Due Date	Status
7.3	Passage of Woody Debris at Soda Springs and Slide Creek Dams	Ongoing	Passage of woody debris continued according to the plan.
8.2.1	Slide Creek Bypass Reach Habitat Project Implementation/ Monitoring	2002-2011	Monitoring continues according to the plan. The second and final year of monitoring is expected to be 2011.
8.3.2	North Umpqua River Habitat Restoration/ Creation Implementation/ Monitoring	2004+	Annual monitoring occurred according to the plan. The habitat continues to be used by substantial numbers of salmon and steelhead. An annual report was submitted to the RCC.
9.1	Funding for Production of Rainbow Trout for Stocking	2004+	PacifiCorp provided \$18,410.72 to the ODFW.
9.3	Lemolo Lake Management Plan and Limits on Drawdown Rate and Elevations	Ongoing	Water levels and drawdown rates were monitored according to the Flow Monitoring Plan. Lake management and consultation proceeded according to the Lemolo Reservoir Management Plan.
9.5	Salvage of Fish During Maintenance Shutdowns	Ongoing	Advance notice of maintenance shutdowns and the salvage and liberation of fish continued as required.
10.3	Reconnection of Clearwater River	2005	Facility evaluation by the ODFW continued according to the plan, and is expected to conclude in 2010.
10.6	Aquatic Connectivity	Ongoing	Additional review and coordination by PacifiCorp, the ODFW, and the USDA-FS continued this year on reconnection sites and preliminary design solutions. Three stream bridge sites were constructed in 2009. Site-specific designs for 20 sites have been developed in consultation with the agencies;

SA Section	PM&E	Due Date	Status
			several of these sites will be constructed in 2010 pending approvals and permitting. Additional designs are in development.
11.2	Wildlife Crossings	2009	Construction of the remaining 24 wildlife crossings was completed in 2009. Use monitoring of a sample of the crossings began in 2009 and will continue through 2011.
11.5	Wetland Development	2006-2011	The Ranawapiti wetland enhancement site (an alternative to the Fallen Mountain Creek site accepted by the RCC in 2008) was completed in 2009. Construction of the Lemolo 1 forebay wetland enhancement was initiated in 2009 and will be completed in 2010. The Stinkhole wetland design consultation will commence in 2010.
12.1	Vegetation Management Plan Implementation	Ongoing	The Plan is final and being implemented. Noxious weed treatments are being conducted on both BLM and USDA-FS lands on an annual basis. Both the noxious weed training program and the horticultural invasive species program are being implemented annually per Plan requirements. The 2010 draft 5-year rolling action plan (RAP) was presented to both the USDA-FS and the BLM in December.
13.1	Power Pole Modification	Ongoing	No power pole modifications were needed this year.
13.4	Records Database Management System	Ongoing	PacifiCorp continues to maintain a database for management of birds on power lines. An annual report summarizing avian power line program activities occurring within the Project area was submitted to the USDA-FS in March.

SA Section	PM&E	Due Date	Status
14.1, 14.5	Erosion Control Plan Implementation/ Monitoring (ECP)	Ongoing/ Annual	The ECP is final and undergoing implementation. Erosion sites were monitored and an annual report was produced and distributed to the agencies in October.
14.2	Canal Shutoff and Drainage Systems	2007-2009	<u>Fish Creek</u> : Construction was completed in 2008, but improvements continue on the communication system. Further upgrades and testing occurred in 2009 and are planned to conclude in 2010. <u>Clearwater 2</u> : Constructed in 2008, tested successfully in April 2009. <u>Lemolo 2</u> : Constructed during 2009; testing planned for early 2010.
14.4	Erosion Site Remediation	2016	Erosion remediation was conducted at three sites this year (LM2-4, LM2-18, and LM2-23). Erosion remediation for 2010 includes two sites (CW2-12 and CW2-13).
15.1 – 15.4	Transportation Management Plan Implementation (TMP)	2004+	The TMP continues to undergo implementation. Culvert inspections and maintenance are being performed annually. The 5-year RAP was developed in consultation with the USDA-FS and the BLM. Road decommissioning continued in 2009 and will be completed in 2010. The 2009 road maintenance cost share amount was \$117,199; of which PacifiCorp's share was \$22,919.

SA Section	PM&E	Due Date	Status
15.5, 15.5.1	Bridges – Inspections/ Maintenance; Bridge Cost Sharing	Annual	Bridge inspections have been conducted on PacifiCorp-hydro and jointly maintained roads every two years: 2003, 2005, 2007, and 2009. All critical bridge maintenance has been completed. Major progress has been made toward completion of non-critical bridge maintenance and deferred maintenance tasks by 2015. An agreement was finalized in 2009 to provide the guidelines for completing the remaining deferred maintenance, in order to initiate cost-sharing on jointly maintained bridges.
15.6	Fish Passage and Q100 Culvert Upgrades	2005-2010	All fish passage projects on PacifiCorp-exclusive roads have been completed. The last remaining Q100 culvert upgrade on PacifiCorp-exclusive roads (culvert no. 1035) has been postponed to coincide with related aquatic connectivity projects. PacifiCorp continues to cost-share the USDA-FS culvert upgrades on jointly maintained roads.
16.1, 16.3, 16.4	Visual Resources Management Plan (VRMP)	Ongoing	The VRMP is final and undergoing implementation. The 5-year RAP is developed annually in December.
17.1	Recreation Resources Management Plan Implementation (RRMP)	Ongoing	The RRMP is final and undergoing implementation. The 2009 5-year RAP was approved by the USDA-FS and identified actions were completed.
17.2	Campground Operations and Maintenance	Annual	PacifiCorp provided \$92,167 to the USDA-FS. These funds are to be used for the operation and maintenance expenses for campground facilities on or near PacifiCorp project waters.

SA Section	PM&E	Due Date	Status
17.7	Law Enforcement	Annual	PacifiCorp provided \$9,819 to the USDA-FS for land-based law enforcement support at recreation facilities in the FERC project boundary.
17.8	Capital Improvements	Annual through 2012; future years will be monitoring-dependent	PacifiCorp provided \$289,662 to the USDA-FS for completion of capital project, most of which are to be completed in future years.
17.9	Public Information	Annual	PacifiCorp provided \$8,800 to the USDA-FS.
17.10	Recreation Monitoring Recreation Monitoring (Periodic Surveys)	Annual 2007, 2013, 2019, 2025, 2031, and 2037	PacifiCorp provided \$8,800 to the USDA-FS.
18.1	Cultural Resources (Historic Properties) Management Plan Implementation (HPMP) Historic Structures Plan (HSP)	Ongoing	Both the HPMP and HSP are finalized and undergoing implementation. The 2009 5-year RAP was developed in consultation with the USDA-FS, the BLM, and the SHPO.
18.6	Cultural Resources Monitoring	Ongoing	PacifiCorp will continue to coordinate ground-disturbing activities with the USDA-FS, the BLM, and the SHPO to continue monitoring and protection of historic properties.
19.1.1	Tributary Enhancement Account	Annual	PacifiCorp deposited \$527,773.87 to this account for future work associated with the ODFW Memorandum of Understanding (MOU). This account funds work on fish habitat enhancements and fish passage improvements.

SA Section	PM&E	Due Date	Status
19.2	Long-Term Monitoring and Predator Control	Annual	PacifiCorp deposited \$184,107.16 to this account. Long-term monitoring and predator study work proceeded according to the study plan.
19.3	Mitigation Fund	Annual	PacifiCorp deposited \$266,845.27 to the USDA-FS account.
19.4	Oversight Costs	2006+	PacifiCorp provided \$198,835.74 to the ODFW for the funding of two full-time ODFW personnel to help oversee and monitor work associated with the ODFW MOU.
21.4.1	RCC	Ongoing	The RCC continued to facilitate the implementation of PM&E Measures. It held one 2-day work session, one public tour, and routine monthly meetings. Technical working groups met much more frequently to address detailed consultation issues.

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3.1.1 Major Accomplishments

During the reporting period, PacifiCorp continued progress on implementing PM&E Measures in compliance with the Settlement Agreement. Major accomplishments are described below by Settlement Agreement section. Project photos are provided in Appendix A.

Slide Creek Tailrace Barrier Design (SA Section 4.1.1f)

PacifiCorp solicited for design proposals and awarded a design contract to McMillen Engineering (Boise, ID) for the design of a tailrace barrier and an optional bypass design for emergency flow releases at the Slide Creek plant. A proposal was extended and agreed upon by the collaborating agencies in the initial meeting to combine the design reviews and acceptance of a tailrace barrier (SA 4.1.1f) and an appurtenant emergency flow release (SA 6.9) to be constructed at the same time. Two presentations by the design consultant throughout the year provided their evaluation, options and concepts for consideration. The technical work group selected a preferred concept for the tailrace barrier and accepted a site location for an emergency by-pass flow release. The design consultant provided a final conceptual report at the end of 2009 for further design development in 2010.

Fish Passage at Soda Springs Dam (SA Section 4.1-2)

FERC approval of agency consultation for the fish ladder, fish screen, fish evaluation facility and spillway modification designs was received in July of 2009. Design engineering was completed and stakeholder review of the construction plans and specifications was completed by the end of 2009. Construction is expected to commence in June of 2010, with substantial completion to be achieved in October of 2011. Construction of the Minimum In-stream Flow Structure was completed in December of 2009.

Fish Creek Fish Screen Biological Evaluation (SA Section 4.3.2a)

Field work occurred during May and July 2009, during high and low flow conditions, respectively. Rainbow trout were introduced, observed, and recaptured as described in the study plan. The results were combined with those from the 2008 hydraulic evaluation work, with a final report “Fish Creek Fish Screen and Canal Shutoff and Drainage System Post-Construction Evaluation Report” which was approved by the RCC and submitted to FERC in November 2009. The evaluation concluded that the fish screen is performing according to design expectations for protecting fish.

Lemolo 2 Full-Flow Reach (SA Section 6.1)

Progress continues to be made toward constructing a partially buried pipeline to direct the discharge flows from the Lemolo 2 powerhouse to upper Toketee Lake. Geotechnical investigation and design efforts started in July 2009 and will lead to a final design and permitting approvals in 2010. Construction is scheduled for 2011.

Management of Lemolo Reservoir (SA Section 9.3)

The technical working group continued management of Lemolo Reservoir. During 2009, investigations and actions included an experimentally low spring and summer water level, an early and intense trapnetting effort to remove tui chub, experimental electrofishing of tui chub, addition of wild brown trout from fish salvage at Lemolo 2, and monitoring of fish and water quality conditions. Some of these efforts may be helping, as the intensity of algae blooms appears to be reducing each year. Investigations are expected to continue into 2010.

Reconnecting Aquatic Sites (SA Section 10.6-10.7)

A combination of original and alternative aquatic reconnection sites will be selected for completion over an 11-year period of the new license. Past efforts have been coordinated to also provide crossings over waterways for big game and other small wildlife. These combination bridges provide both terrestrial and aquatic connectivity. In 2009, three additional sites were modified to provide additional aquatic connectivity and slope protection. Through an iterative process, sites are being prioritized for construction, with the less complex sites being selected first to provide additional time for planning the more complex sites that require additional study, engineering, permitting, and construction time. A schedule of implementation has been developed with a completion date in 2016, with six aquatic connections planned for construction in 2010. For 2010 and the near future, a number of such sites will be constructed while the more complex sites are being developed. A set of plans and specifications appropriate for these less complex sites has been developed with the agencies.

Wildlife Crossings (SA Section 11.2)

The remaining 24 sites (five on Clearwater, two on Fish Creek, four on Lemolo 1, and 13 on Lemolo 2) were completed in 2009. The last of which was completed in October, as it was located directly over one of the Lemolo 2 canal shutoff and drainage structures and required construction to be completed first before the wildlife crossing could be set.

Enhancement of Wetland Species Diversity (SA Section 11.5)

The Ranawapiti wetland enhancement site (an alternative to the Fallen Mountain Creek site accepted by the RCC in 2008) was constructed in 2009. The Lemolo 1 forebay wetland enhancement construction began in 2009 and will be completed in 2010. The Stinkhole wetland enhancement site will begin design consultation in 2010, with construction anticipated in 2011. Efforts will be made in 2010 to identify the remaining three wetland enhancement sites that do not have defined locations in the Settlement Agreement.

Vegetation Management Plan (SA Section 12.1)

Progress continues on implementation of the Vegetation Management Plan (VMP). Annual noxious weed treatments are being conducted on both BLM and USDA-FS lands. The noxious weed training program was implemented and will continue on an annual basis per

the VMP. The horticultural invasive species program was implemented and will continue as necessary to satisfy VMP requirements. A significant coordination effort was conducted between Pacific Power and USDA-FS during the management of trees affected by the Williams Creek Fire. This and other right-of-way vegetation management was conducted in accordance with the VMP. The 2009 draft VMP 5-year rolling action plan was presented to both the USDA-FS and the BLM in December.

Canal Shutoff and Drainage Systems (SA Section 14.2)

Three facilities will automatically sense flume breaches and drain water or divert waters from impacted project waterways in a controlled manner to minimize the potential for erosion.

Clearwater 2 System

The new electrical headgate panel installation, expected to be completed by the end of 2008, drew into early 2009. PacifiCorp completed the system programming and testing, and a successful performance test was conducted for the agencies on April 30, 2009.

Lemolo 2 System

The final 100% design was completed in February 2009, with construction following in June. This project was completed in December 2009.

Erosion-Site Remediation (SA Section 14.4)

Remediation of erosion sites continues to progress in advance of the schedule set forth in the Settlement Agreement. Three erosion sites were completed in 2009. Of the 68 total sites, 48 have been remediated, seven require remediation, and 15 require annual monitoring. Designs for remediation of two erosion sites are planned for in 2010 and three sites in 2011. Inspections of erosion sites continue to be conducted annually.

Transportation Management Plan (SA Section 15.1)

Progress continues on the implementation of the Transportation Management Plan. The USDA-FS and PacifiCorp continued to jointly share the costs associated with road and bridge maintenance. Scheduled culvert replacements, inventories of Level 1 roads and road decommissionings were completed this year. The remaining 0.92 miles of road decommissioning, bridge maintenance and culvert replacements are planned for 2010.

Tributary Enhancement Program (SA Section 19.1)

ODFW placed 1,000 boulders, 46 root-wads and 162 logs in 0.4 miles of North Fork of East Fork and 0.3 miles of East Fork Rock Creek. To date, ODFW has enhanced 1.1 miles of East Fork (downstream of the effectiveness monitoring study) and 0.4 miles North Fork of East Fork. At this time there is a 0.5 mile stretch of East Fork (on private timber land under new ownership) that remains to be enhanced.

Design of modifications to the Rock Creek Fish Hatchery dam fish ladder progressed during 2009, with construction to reroute the main hatchery intake (as part of the new ladder construction) taking place during October. Construction of the fish ladder is planned to begin in June 2010.

Long-Term Monitoring and Predator Control Study Program (SA 19.2)

Monitoring continued during 2009 to help characterize baseline conditions from which to judge the success of providing anadromous fish passage at Soda Springs dam. Work during various times of year included operating three smolt traps, counting salmon and steelhead redds, and attempting to estimate populations of resident trout in reaches where anadromous fish will have future access. Predator studies included additional sampling of resident trout in Soda Springs reservoir and enumeration of brown trout redds upstream. Annual reports provide preliminary results and help direct the program of work each year.

Mitigation Fund (SA 19.3)

Since 2004, PacifiCorp has been depositing annual payments into an escrow mitigation fund account managed by the USDA-FS. The fund is available for use on National Forest System and BLM administered lands within the North Umpqua River basin to mitigate or compensate for impacts from the hydroelectric project. The Mitigation Fund Board of Directors (BOD) oversees mitigation projects to be implemented with this funding. Project ranking are completed by a USDA-FS and BLM hydropower technical peer group and final recommendations come from the BOD. The Forest Supervisor makes final approval of project selections. Proposed projects selected for FY09 were provided for review to the Settlement Agreement parties.

Watson Ridge Communication Facility (supporting SA Sections 5.1, 5.5, 6.5, and 14.2)

The civil construction phase started in early June 2009. This communication building facility, underground power/fiber optic and microwave radio tower project was finished prior to snowfall in 2009. This project installs radio and microwave communications and provides for the capability of a communications link from the Toketee Control Center to the Hydro Control Center. The second phase of this project (microwave link to the Hydro Control Center) is scheduled to be finished in 2011.

3.1.2 Plans and Reports

The following plans and reports were completed and/or revised:

- **Soda Springs Spawning Habitat Annual Report**; January 2009 (SA Section 8.3)
- **2008 Annual Avian Protection Report**; March 2009 (SA Section 13.4)
- **Soda Springs Water Quality Station Annual Report, USGS No. 14316460, for Water Year 2008**; May 2009 (401 Certification)
- **Long Term Monitoring and Predator Control Study Annual Report 2008**; December 2009 (SA Section 19.2)
- **Lemolo Reservoir Management Annual Drawdown Report**; December 2009 (SA Section 9.3)
- **Stream Temperature Monitoring Plan Report, Water Year 2008**; December 2009 (401 Certification)
- **Erosion Control Plan Annual Report**, December 2009 (SA Section 14.5)
- **2009 Noxious Weed Inventory Report**; December 2009 (VMP)

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3.2 FERC License Actions

The FERC license contains actions that are required in addition to those actions in the Settlement Agreement. Table 3.2-1 summarizes the FERC License requirements that were fulfilled during this reporting period.

Table 3.2-1
FERC License Actions Status

Date Filed	License Article No.	Settlement Agreement Section No.	Description	Status/ Comments
12/12/08	Appendix B	USDA-FS 4(e) Cond. 17	Request for Extension of Time to file Survey and Manage Species Plan <i>(to 6/30/09)</i>	Approved 3/31/09
12/16/08	414	18.1 & 18.2	2008 Historic Properties Annual Report/Action Plan	Letter order acceptance issued 2/20/09
2/9/09	401	4.3.2	Request for Extension of Time to file Fish Creek Fish Screen Hydraulic and Biological Evaluation Report <i>(to 11/30/09)</i>	Approved 2/26/09
2/26/09	411 & 412	n/a	2008 Threatened & Endangered Species and Bald Eagle Monitoring Report	Approved 6/18/09
3/4/09	301, 304, & 306	14.2	Lemolo 2 Canal Shut-off and Drainage System: Plans, Specifications, Quality Control and Inspection Program (QCIP), and Temporary Construction Emergency Action Plan (TEAC)	Approved 5/5/09
3/4/09; 3/5/09; 3/31/09; 3/14/09; 5/8/09; 5/18/09; 5/21/09	301, 304, & 306	11.5	Lemolo 1 Forebay Expansion and Wetlands Enhancement: Construction Plans and Specifications, Geophysical Investigation Report, QCIP, Blasting Plan, Conceptual Design Report and Revised Specifications, Geotechnical Design Memorandum, Revised QCIP Section F, Revised Plans & Specifications, and an USFS Memorandum regarding intended forebay use by the USFS during forest fire emergencies	Approved to start excavation work only 6/5/09

Date	License Article No.	Settlement Agreement No.	Description	Status/ Comments
3/19/09	401	4.1.1(s), 4.1.2(a), & 4.1.2(f)	Soda Springs Fish Passage: Design Drawings, Post-Construction Plan, Operations & Maintenance Plan with Agency Approval Signatures	Approved 7/17/09
6/16/09	401	21.4.2	2008 Resource Coordination Committee Annual Report	
6/17/09	Appendix B	USDA-FS 4(e) Cond. 17	Request for Extension of Time to file Survey and Manage Species Plan (to 6/30/10)	Approved 11/6/09
6/30/09; 9/4/09	301, 304, 305, & 306	4.1	Soda Springs Fish Passage Minimum In-stream Flow Release Structure: Construction Plan Drawings, Technical Specifications, Project Permits, and Quality Control Inspection Program; and Coffey Dam Plans and Specifications, Temporary Construction Emergency Action Plan, and General Pollution/ Erosion, and Noise Control Plan	Approved 10/6/09
8/25/09	401	11.5	Lemolo 1 Forebay Expansion and Wetlands Enhancement: Revised Alignment and Elevation Construction Drawings	Approved 9/18/09
9/23/09; 9/28/09; 10/5/09	305 & 306	11.5	Lemolo 1 Forebay Expansion and Wetlands Enhancement: Coffey Dam Plan and Temporary Emergency Action Plan, Revised Coffey Dam Plan, and PacifiCorp approval of Revised Coffey Dam Plan	Approved 10/8/09
11/6/09; 11/13/09	401	4.1.1(f)	Slide Creek Tailrace Barrier Site Exploratory Drilling Plan	Approval to proceed with drilling work 12-10-09
11/24/09	401	4.3.2(b)	Fish Creek Fish Screen Hydraulic and Biological Evaluation Report	
12/18/09	414	18.1 & 18.2	2009 Historic Properties Annual Report/Action Plan	

SECTION 4.0 FIDUCIARY REPORTING

Consistent with Settlement Agreement fiduciary reporting requirements, this section provides account information for the following actions and fulfills the requirement to annually report the amounts deposited into and disbursed from each account:

- SA Section 7.2.3 (amended) Gravel Augmentation Program
- SA Section 8.3.5 (amended) North Umpqua River Habitat Restoration/Creation Project
- SA Section 19.1.1.3 Tributary Enhancement Program
- SA Section 19.3.1 Mitigation Fund

The Settlement Agreement does not require annual reporting for SA Section 19.2 Long-Term Monitoring and Predator Control Fund. Since this was likely an oversight, the account information for this fund is also provided in this section.

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Fiduciary Reporting

SA Section 7.2 Gravel Augmentation Program

Date	Item	Expenditures	Funding	Balance
2009	Opening Balance			\$35,057.40
2009	2009 Escalation (as per SA 22.4.4)		\$893.69	\$35,951.09
2009	Expenditures	\$0.00		
2009	Total Expenditures	\$0.00		\$35,951.09
2009	Ending Balance			\$35,951.09

Fiduciary Reporting

SA Section 8.3 North Umpqua River Habitat Restoration/Creation Project

Date	Item	Expenditures	Funding	Balance
2009	Opening Balance			\$214,165.46
2009	2009 Escalation (as per SA 22.4.4)		\$5,459.57	\$219,625.03
2009	Expenditures	\$0.00		
2009	Total Expenditures	\$0.00		\$219,625.03
2009	Ending Balance			\$219,625.03

Fiduciary Reporting
SA Section 19.1 Tributary Enhancement Program Fund

Date	Item	Expenditures	Funding	Balance
2009	Opening Balance			\$3,999,867.61
2009	Annual Funding (\$430K escalated)		\$527,773.87	\$4,527,641.48
2009	Expenditures			
	Blue Ridge Timber			
	Log pulling/placement	(\$38,625.00)		
	Honey Creek Logging			
	Logging/hauling	(\$19,900.00)		
	Ed Jones			
	Log hauling	(\$62,621.57)		
	Knife River Materials			
	Boulders/delivery	(\$18,494.50)		
	ODFW			
	19.2 EBA Technicians (3 months)	(\$35,746.00)		
	Willard Marshall Trucking			
	Log hauling	(\$5,300.00)		
	Total Expenditures	(\$180,687.07)		\$4,346,954.41
2009	Interest Earned		\$10,757.41	\$4,357,711.82
2009	Bank Fees	(\$4,564.36)		\$4,353,147.46
2009	Ending Balance			\$4,353,147.46

Fiduciary Reporting

SA Section 19.2 Long Term Monitoring/Predator Control Fund

Date	Item	Expenditures	Funding	Balance
2009	Opening Balance			\$14,646.94
2009	Annual Funding (\$100K escalated)		\$184,107.16	\$198,754.10
2009	Expenditures			
	E.G. Solutions			
	Smolt trap repair	(\$1,187.00)		
	ODFW			
	EBA Technicians (9 months)	(\$107,237.00)		
	Partnership for Umpqua Rivers			
	Fish sampling	(\$22,091.20)		
	PacifiCorp			
	Predator control study crew expenses	(\$72.94)		
	Smith Root			
	Electrofishing boat repair	(\$969.52)		
	Stillwater Sciences			
	Predator study database revisions	(\$4,819.50)		
	Weekly Bros.			
	Tree/brush removal & anchor bolt installation	(\$3,604.00)		
2009	Total Expenditures	(\$139,981.16)		\$58,772.94
2009	Interest earned		\$292.41	\$59,065.35
2009	Bank fees	(\$134.65)		\$58,930.70
2009	Ending Balance			\$58,930.70

Note: The 2009 annual payment includes a 50% advance of the 2011 payment.

Fiduciary Reporting

SA Section 19.3 Mitigation Fund

Date	Item	Expenditures	Funding	Balance
2009	Opening Balance			\$2,295,550.95
2009	Annual Funding (\$250K escalated)		\$266,845.27	\$2,562,396.22
2009	Expenditures			
	Mitigation Projects			
	LMR Coop Investigation BGA Blooms & Lake Habitat Mgmt			
	LMR Public Health Protection Education & Prevention			
	Upper North Umpqua Anadromous Fish Spawning Habitat			
	Mill Creek Culvert 2245 – Construction			
	Deep Creek & Johnson Creek Culvert Replacement – Phase II Design & Contract Preparation			
	Steamboat Falls Fish Ladder			
	Thorn Creek Culvert 2410 - Design			
	Mowich Culvert 6180 - Design			
	2009 Knapweed Control			
	Forage Regeneration			
	Lower Bench Shrubland Maintenance			
	Wetland Enhancement Planning			
	Fish Creek Forebay Chinquapin Restoration Implementation			
	Copeland Creek Watershed Level 1 Roads Analysis and Needs - Survey			
2009	Total Expenditures	(\$1,076,349.00)		\$1,486,047.22
2009	Interest Earned		\$3,942.31	\$1,489,989.53
2009	Ending Balance			\$1,489,989.53

Notes:

- 2009 opening balance is different from previous year-end balance, due to a correction reported by the USDA-FS.
- \$40,000 was withheld from the annual funding amount in order for the USDA-FS to provide partial funding (through PacifiCorp with the 19.3 obligation) for collaborative efforts to control tui chub in Lemolo Reservoir. This need relates to ongoing work by the Lemolo Lake TWG in trying to find solutions to the blue-green algae bloom issue.

SECTION 5.0 CONCLUSION

The 2009 Annual Report underscores a productive year made possible through the dedication of Parties to the Settlement Agreement and their respective staff, PacifiCorp's implementation team members, and the public. This collaborative approach provided an effective framework for realizing benefits of the Settlement Agreement in a highly valued watershed.

The RCC ground rules and protocols for interagency teamwork and communication have provided an effective framework for watershed management consistent with the goals of the Settlement Agreement. Parties worked cooperatively toward meeting Settlement Agreement commitments during the report period and in most cases, projects were completed on schedule. The date for completing the Lemolo No. 1 forebay expansion, and its associated wetland, was extended into 2010 by mutual consent of the Parties. Although substantially complete in 2009, final steps toward full functionality of the Watson Ridge Communication Facility will also be completed in 2010.

Significant accomplishments during the reporting period included: 1) Federal Energy Regulatory Commission approval of facility design consultation for the Soda Springs fish passage project, and constructing a facility to provide minimum flows in the bypass reach; 2) reaching consensus on conceptual design for the Slide Creek tailrace barrier; 3) completing enhancement of the Ranawapiti wetland; 4) completing construction of the canal shutoff and drainage system at Lemolo No. 2, as well as a successful performance test of a similar facility on the Clearwater No. 2 waterway that was constructed in 2008; and 5) completing annual Rolling Action Plans and associated tasks for ongoing programs to manage vegetation, erosion, transportation, aesthetics, recreation, and cultural resources in the North Umpqua Project area.

Blooms of blue-green algae at Lemolo Reservoir continued to challenge the technical working group in 2009 with additional monitoring and actions (alternative reservoir management and tui chub trapping) in an effort to find solutions. However, the bloom was not as severe in 2009 and the Parties are hopeful that past efforts are bringing this issue to a close. The working group plans to continue tui chub trapping and water quality monitoring in 2010.

We have high expectations for 2010, as construction of the fish passage facilities at Soda Springs begins. Much of the fish ladder, structural support for the fish screen facility, and replacement of the Soda Springs road bridge is planned for 2010, with project completion scheduled for 2011. Facility evaluation pursuant to full functionality is expected in 2012. In addition to this work, final design of the Slide Creek tailrace barrier will be completed in 2010. Other projects scheduled for 2010 include construction of aquatic site reconnections, permitting and final design of the Lemolo 2 Reroute project, and modification of the trash rack at Toketee Lake to reduce entrainment and movement of brown trout into the lower

reaches of the project. As in past years, long-term monitoring of fish populations and habitat will continue in areas where anadromous fish will be reintroduced in 2012.

Appendix A

Project Photos

Fish Passage at Soda Springs Dam (SA Section 4.1-2)

Minimum In-stream Flow Structure



Fish Passage at Soda Springs Dam (SA Section 4.1-2)

Minimum In-stream Flow Structure



Fish Passage at Soda Springs Dam (SA Section 4.1-2)

Minimum In-stream Flow Structure



Fish Passage at Soda Springs Dam (SA Section 4.1-2)

Minimum In-stream Flow Structure



Fish Creek Fish Screen Biological Evaluation (SA Section 4.3.2a)



Fish Creek Fish Screen Biological Evaluation (SA Section 4.3.2a)



Lemolo Reservoir Management (SA Section 9.3)



Lemolo Reservoir Management (SA Section 9.3)



Reconnecting Aquatic Sites (SA Sections 10.6 – 10.7)



Reconnecting Aquatic Sites (SA Sections 10.6 – 10.7)



Wildlife Crossings (SA Section 11.2)



Enhancement of Wetland Species Diversity (SA Section 11.5)

Ranawapiti Wetland Enhancement Site



Enhancement of Wetland Species Diversity (SA Section 11.5)

Ranawapiti Wetland Enhancement Site



Enhancement of Wetland Species Diversity (SA Section 11.5)

Lemolo 1 Forebay Wetland Enhancement Site



Enhancement of Wetland Species Diversity (SA Section 11.5)

Lemolo 1 Forebay Wetland Enhancement Site



Enhancement of Wetland Species Diversity (SA Section 11.5)

Lemolo 1 Forebay Wetland Enhancement Site



Canal Shutoff and Drainage Systems (SA Section 14.2)

Lemolo 2



Canal Shutoff and Drainage Systems (SA Section 14.2)

Lemolo 2



Canal Shutoff and Drainage Systems (SA Section 14.2)

Lemolo 2



Canal Shutoff and Drainage Systems (SA Section 14.2)

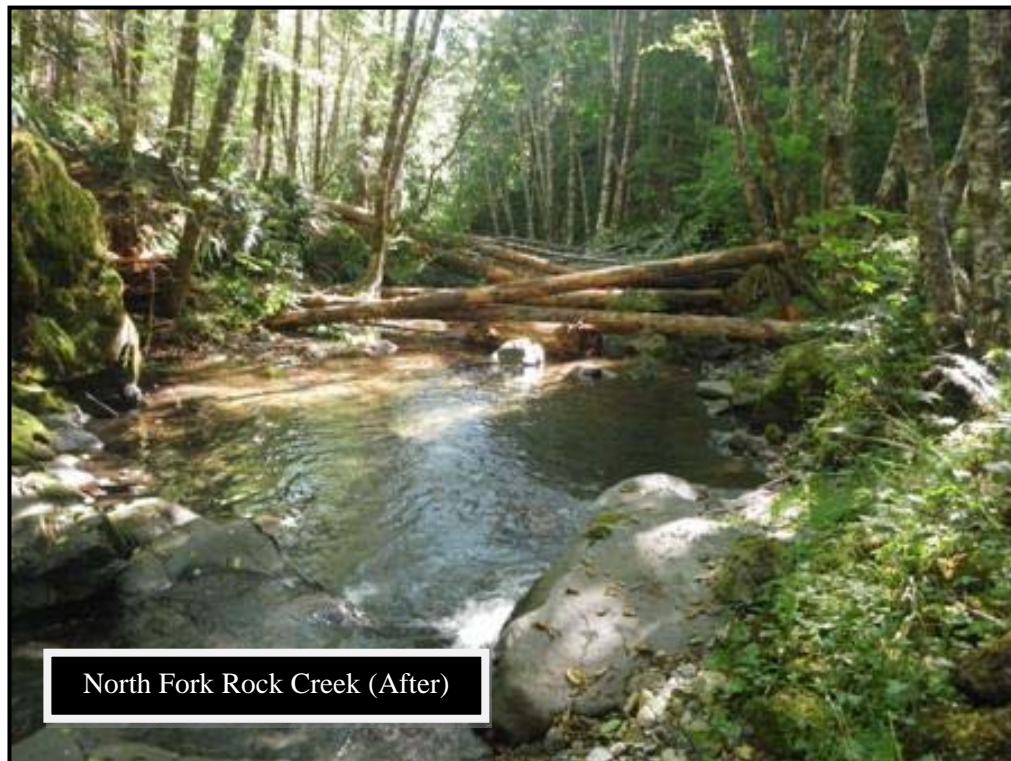
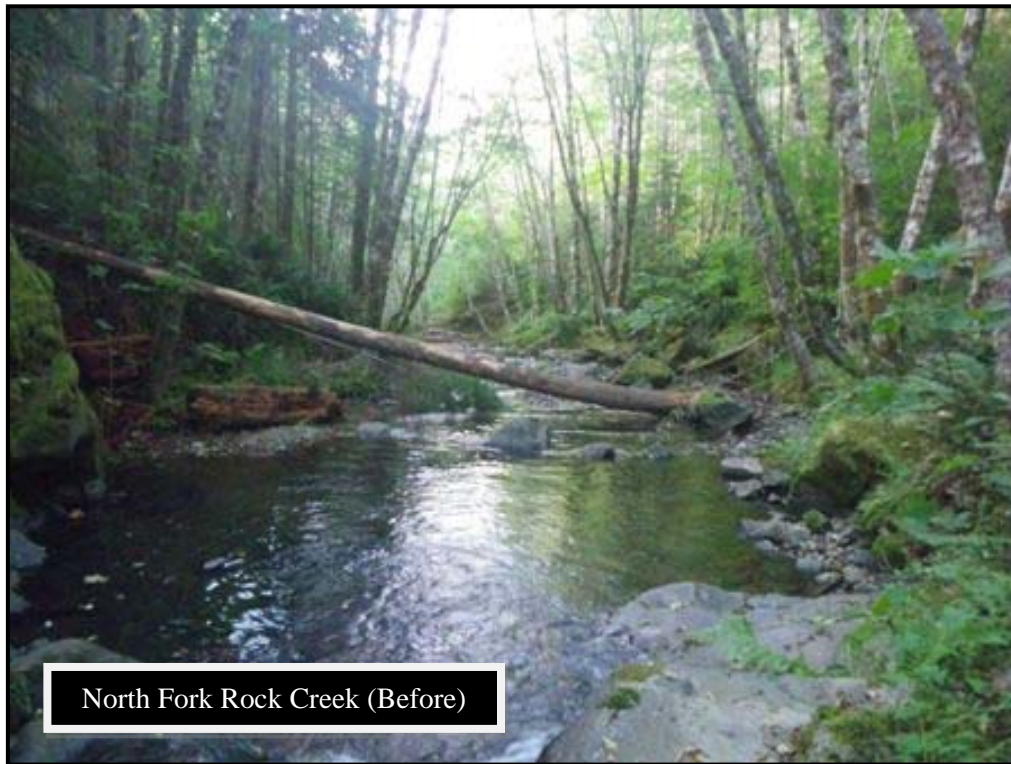
Lemolo 2



Tributary Enhancement Program (SA Section 19.1)



Tributary Enhancement Program (SA Section 19.1)



Long Term Monitoring & Predator Control Study Program (SA Section 19.2)



Long Term Monitoring & Predator Control Study Program (SA Section 19.2)



**Watson Ridge Communication Facility
(Supporting SA Sections 5.1, 5.5, 6.5, and 14.2)**



**Watson Ridge Communication Facility
(Supporting SA Sections 5.1, 5.5, 6.5, and 14.2)**



**Watson Ridge Communication Facility
(Supporting SA Sections 5.1, 5.5, 6.5, and 14.2)**

