

**Lewis River Hydroelectric Projects  
Terrestrial Coordination Committee (TCC)  
Meeting Agenda**

**Date & Time:** Wednesday, February 8, 2017  
9:00 a.m. – 12:00 p.m.

**Place:** Merwin Hydro Control Center  
105 Merwin Village Court  
Ariel, WA 98603

**Contacts:** Kendel Emmerson (503) 813-6040; cell 503-703-7734

<b>Time</b>	<b>Discussion Item</b>
9:00 a.m.	Welcome <ul style="list-style-type: none"> <li>➤ Review Agenda &amp; 12/14/16 Meeting Notes</li> <li>➤ Comment &amp; accept Agenda &amp; 12/14/16 Meeting Notes</li> </ul>
9:15 a.m.	Saddle Dam Weir Monitoring Site; tree removal/snags
9:45 a.m.	Cowlitz PUD WHMP 2017 Plan – 30 day review
10:00 a.m.	<ul style="list-style-type: none"> <li>○ TCC 2016 Year-end Accounting</li> <li>○ Land acquisition update (<b>CONFIDENTIAL</b>)</li> </ul>
<b>10:15 a.m.</b>	<b>Break</b>
10:30 a.m.	PacifiCorp WHMP 2017 Plan and WHMP 2016 Report
11:30 a.m.	Project Updates <ul style="list-style-type: none"> <li>➤ PacifiCorp Website Public ACC/TCC Statement</li> <li>➤ Unit 1 proposed harvest plan</li> <li>➤ Cougar Beam Path</li> <li>➤ HCC Trees</li> <li>➤ Frasier Diversion Dam</li> </ul>
11:45 a.m.	Next Meeting's Agenda <ul style="list-style-type: none"> <li>➤ Note: all meeting notes and the meeting schedule can be located at: <a href="http://www.pacificorp.com/es/hydro.html">http://www.pacificorp.com/es/hydro.html</a></li> </ul>
<b>12:00 p.m.</b>	<b>Meeting adjourn</b>

Join by Phone

+1 (503) 813-5252 [Portland, Ore.]

+1 (801) 220-5252 [Salt Lake City, Utah]

+1 (855) 499-5252 [Toll Free]

**Conference ID: 20999027**

**FINAL Meeting Notes**  
**Lewis River License Implementation**  
**Terrestrial Coordination Committee (TCC) Meeting**  
**February 8, 2017**  
**Merwin Hydro Control Center**  
**Ariel, WA**

**TCC Participants Present: (8)**

Ray Crosswell, RMEF  
 Bill Richardson, RMEF (via phone)  
 Kendel Emmerson, PacifiCorp  
 Kim McCune, PacifiCorp  
 Summer Peterman, PacifiCorp (via phone)  
 Peggy Miller, WDFW (via phone)  
 Eric Holman, WDFW  
 Amanda Froberg, Cowlitz PUD

**Calendar:**

March 8, 2017	TCC Meeting	HCC
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<b>Assignments from February 8, 2017</b>	<b>Status</b>
Emmerson: Schedule a TCC tour of Unit 1 the TCC can choose the three snag trees.	<b>Pending</b>

<b>Assignments from July 13, 2016</b>	<b>Status</b>
Emmerson: Report back to the TCC regarding status of the Property Encroachment Permit and Shoreline Permit Application.	<b>Pending</b>

<b>Assignments from March 9, 2016</b>	<b>Status</b>
McCune: Add the Fisher CCAA conservation measures in in 2016 WHMP Annual Report and in year 17 re-write (incorporate into Best Management Practices).	<b>Pending</b>
WDFW: In regards to 10.3.3, Matching Funds Eagle Island Project the TCC would like a 1-2-page progress report of project status with photos after the grant term expires (12-31-2017).	<b>Requested status update – 2/8/17</b>

Kendel Emmerson (PacifiCorp) called the meeting to order at 9:05am. Emmerson reviewed the agenda and asked the TCC if there were any changes/additions. No addition to the agenda was requested. Emmerson reviewed the TCC December 14, 2016 Meeting Notes which were approved at 9:10am without change.

**Public Comment Opportunity:**

None

**Saddle Dam Weir Monitoring Site; tree removal/snags**

Emmerson informed the TCC attendees that the solar panel at the Saddle Dam weir monitoring site is only receiving about 20 minute of solar recharge time due to shade trees and it needs about 4

hours. The solar panel cannot be moved as it feeds the gage, as there is no electricity on the road. PacifiCorp operations needs to clear trees in riparian area on WHMP lands. The only option is to fall or to limb six western hemlocks, four Doug Fir and one large cedar. There will be a total of 11 trees and 5 sub-canopy trees (i.e., less than 10 in. in dbh). The cedar and larger hemlock will be limbed; the rest of trees will be felled and left as down wood. The trees cannot be snags due to the proximity to the road (see [Attachment A](#) for photos of site).

**Cowlitz PUD WHMP 2017 Plan (30-day review)**

Amanda Froberg (Cowlitz PUD) informed the TCC attendees that her original email regarding the 30-day review draft did not provide exactly 30 days so the comments are now due on or before **March 10, 2017**.

The TCC agreed that the goal of the PUD WHMP Plan is saving funds up to get a larger entry and treatment (removal & timber harvest) on a scale of the entire Devils backbone area of ground. As a point of clarification, Froberg will add a footnote to their WHMP 2017 plan to read as follows:

*“TCC members desire that any unspent monies/carry forward be designated for future timber management activities”.*

**Table 2.1-1. Anticipated 2017 (Year 9) Annual Plan Budget (2017 dollars).**

2017 Budget		
Dec 26, 2016 Annual Payment	\$18,488	
2016 Carry Forward	\$ 14,278	Does not include 2015 & 2016 Timber Fund
Interest on 2016 Ending Balance	\$ 983	
Total 2017 Budget	\$ 33,749	
WHMP Activity	Estimated 2017 Cost	Assumptions
Administration	\$5,000	Includes general oversight and accounting, preparing Annual Report and Annual Plan, contracting, maintaining project files, participating in TCC meetings related to implementing Cowlitz PUD's WHMP.
Annual inspection to monitor and manage public access	\$0	Included in invasive plant surveys.
Invasive plant surveys at high priority sites	\$3,700	Includes labor and mileage. 3% increase over 2016.
Invasive plant species control	\$3,000	Includes 2 herbicide applications in 2017.
2017 Timber Management Fund	\$6,471	Defer at least 35% of the annual payment (not including any other carry forward).
Estimated cost of management activities	\$18,171	
Estimated amount remaining in 2017 budget at year end	\$15,578	Any funds not spent by year end, plus accrued interest, remain in the WHMP budget to be carried into the following year.

Timber Fund	Balance	
2015 Timber Fund Carry Forward	\$7,441	
2016 Timber Fund Carry Forward	\$6,375	
2017 Timber Fund Carry Forward	\$6,471	
Total	\$20,287	

Total Carry Forward to 2018 Timber Fund + Unspent Budget	\$35,865	
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**TCC 2016 Year-end Accounting**

Kim McCune (PacifiCorp) informed the TCC of the following 2016 year-end financial report:

<b>Lewis River License Implementation</b>				
<b>Lewis River LWD Fund - Resource</b>				
<b>Section 7.1.1</b>				
<b>Release Date</b>	<b>Funds Received</b>	<b>Funds Dispersed</b>	<b>Balance</b>	<b>Notes</b>
12/26/2015			\$ 61,500.00	
		<b>Total Spent to Date:</b>	\$ (18,500.00)	
		<b>Balance Remaining:</b>	\$ 71,500.00	

<b>Lewis River License Implementation</b>					
<b>Swift No. 1 &amp; Swift No. 2 Land and Habitat Protection Fund</b>					
<b>Section 10.2, 10.2.1</b>					
<b>Release Date</b>	<b>Funds Received</b>	<b>Expense</b>	<b>Interest</b>	<b>Balance</b>	<b>Notes</b>
12/26/2015				\$ 2,637,008.30	
		<b>Total Spent to Date:</b>		\$(5,696,433.89)	
		<b>Balance Remaining:</b>		\$ 3,354,777.55	

<b>Lewis River License Implementation</b>					
<b>Lewis River Land Acquisition and Habitat Funds</b>					
<b>Section 10.3, 10.3.1, 10.3.3</b>					
<b>Release Date</b>	<b>Funds Received</b>	<b>Expense</b>	<b>Interest</b>	<b>Balance</b>	<b>Notes</b>
12/26/2015				\$ 1,092,883.67	
		<b>Total Spent to Date:</b>		\$(1,645,398.12)	
		<b>Balance Remaining:</b>		\$ 1,129,386.89	

<b>Lewis River License Implementation</b>					
<b>Lewis River WHMP Fund (Fee Simple Lands)</b>					
<b>Section 10.8.2</b>					
<b>Release Date</b>	<b>Funds Received</b>	<b>Expense</b>	<b>Interest</b>	<b>Balance</b>	<b>Notes</b>
12/31/2015				58.25	
12/31/2016	-	(485,969.52)	-	(28,487.50)	
		<b>Total Spent to Date:</b>		\$(3,246,686.94)	
		<b>Balance Remaining:</b>		\$ 449,018.26	

**Lewis River License Implementation**  
**Lewis River WHMP Fund (Conservation Easement Lands)**  
**Section 10.8.2**

Release Date	Funds Received	Funds Expended	Balance	Notes
12/31/2015			\$ -	
12/31/2016	\$ -	\$ (273.82)	\$ -	Expenditure for 2016
	<b>Total Spent to Date:</b>		<b>\$ (1,848.26)</b>	
	<b>Balance Remaining:</b>		<b>\$ 278.68</b>	

**Land Acquisition Update**

This topic is considered confidential and proprietary and not for public viewing. **The TCC agreed to push forward to an end of March 2017 closing.**

<Break 10:25am>

<Reconvene 10:30am>

**PacifiCorp WHMP 2016 Annual Report (30-day review)**

The TCC attendees were reminded that the 30-day review was provided February 2, 2017 its 30-day review and comment period. Hard copies were also provided at today’s meeting. Comments are now due on or before **March 6, 2017**. The electronic document can be viewed at the following link:

<http://www.pacificorp.com/es/hydro/hl/lr.html#>

- License Implementation
- Reports
- 2016 ACC/TCC Annual Report
- WHMP 2016 Annual Report (30-day Review Draft)

**Emmerson provided a cursory review to include the following:**

Appendix A WHMP Budget is shown as reported and actual. This is because the budget reported in the 2016 Annual Plan was actually \$20,789.03 less than reported. Unfortunately, it was not discovered until January 2017, so the 2016 budget shortfall needed to be recovered in the 2017 budget. In 2014, there was an error that resulted in including the interest twice in the year, which continued until it was discovered and corrected in 2017.

*4.0 Wetland Habitat Management* - The north pond culvert continued to be blocked with beaver debris. The culvert was monitored and debris removed as needed throughout the spring and summer. Wire protection was installed September 2016 protected with wire to prevent debris from plugging the culvert.

*6.0 Shrubland Habitat Management* - Shrubland 3-2a was inspected and treated for Canada thistle and Himalayan blackberry.

*7.0 Farmland, Idle Fields and meadow Habitat Management* – Several management actions occurred including extensive invasive species control at Saddle Dam fields, Unit 11, Speelyai Meadow and Orchard, Upper and Lower Hanley-Curry, Hamm Meadow and Upper and Lower McKee for Canada thistle, bull thistle, St. Johnswort, scotch broom and bracken fern to name a few.

*11.0 Forestland Habitat Management* – Only the slash in 160733CC (the larger timber harvest in Unit 7) was burned in 2016. This was due to weather and budget constraints. In 2017, McKee has been completed and Osprey Meadow and Unit 19 need to be completed. However, both of these will require a shovel to feed the piles in order to get the shrubs and rootwads to burn completely.

*Appendix D, Unit 7* – Emmerson discovered that there were not enough leave trees in this harvest. In order to best mitigate for this oversight she has added more down wood, expanded the harvest area to include more tree around the periphery of the harvest, but outside of the riparian buffers. As result leave trees will be on the periphery and not within the cut harvest area. The TCC requested that this be explained in more detail and include a map showing the difference in size and location. Kendel assured the TCC that new THA boundary does not extend into any shoreline or riparian buffer .

*Hatchery Unit* – was not logged in 2016 due to the need for a bridge (weight load) inspection. The inspection will be schedule in may2017 to make sure the bridge can handle an 80,000 lb. load. If it passes inspection, the logging will proceed in 2017.

*14.0 Public Access Management* – PacifiCorp blocked off unauthorized public access points by way of ecology blocks at Day Creek bridge and Road 330 to name a couple.

#### **PacifiCorp WHMP 2017 Annual Plan**

Emmerson provided a cursory review of what the TCC can expect when the WHMP 2017 Plan is available later this month for its 30-day review period.

- ✓ Wetlands – focus on blackberry, Yellowflag iris, and reed canary grass noxious weed removal.
- ✓ Riparian Habitat – Treating Himalayan blackberry in timber harvest areas
- ✓ Farmland; turning over upper Hanley-Curry
- ✓ Transmission Right-of-way – Take down blackberry; Beaver Bay
- ✓ Forestry – Units 1, 8, 14 & Hatchery, root wad pocket; clear cut 8 & 14 and unit 1 will be a mix of clear-cut and commercial thin. Starting to work on pre-commercial thinning
- ✓ Raptor site Management – Ground and flight surveys will be conducted again this year.

#### **PacifiCorp Website Public ACC/TCC Statement**

Emmerson informed the TCC attendees that from time to time confidential matters are discussed at TCC meetings and/or public participation is requested. In order to address the need the Lewis River website includes the following statement below as to procedure (see link and path below):

- License Implementation
- Meetings

#### ***ACC & TCC Meeting Schedule***

*The ACC and TCC meetings are open to the public; however, some agenda items are confidential and not open to the public. Meeting dates, locations, and times are subject to change, so please notify the Lewis River Project Coordinator that you will be attending at least eight (8) business days prior to attending. All agenda items and handouts to be distributed to the ACC and/or TCC members must be submitted to PacifiCorp ten (10) days prior to the meeting.*

### **Unit 1 Proposed 2017 Harvest Plan**

Emmerson provided GIS maps illustrating the proposed harvest area in Unit 1 (**Attachment C**). Emmerson noted that the road ends at a beautiful snag that was created as part of the 840107CC timber harvest area, but it is the only available location for road and landing for processing trees. The proposal is 3-1; create three snags at the buffer areas below the timber harvest area and above the highway. PacifiCorp will schedule a TCC tour so its members can choose the three snag trees.

### **Cougar Beam Path**

Emmerson provided GIS maps that illustrate the Lewis River Microwave Beam Path Area (**Attachment B**) and the trees that will be removed from WHMP lands. The areas affected are .55 acres of Yale Dam and .17 acres of Cougar Creek.

**The TCC agreed that PacifiCorp is to instruct its GIS department to remove .55 and .17 acres from its WHMP lands and putting them into Excluded Lands similar to other hydro facilities.**

### **Hydro Control Center (HCC) Trees**

Emmerson expressed that she wants to take down the HCC trees and replace them with cedar in the riparian area adjacent to the Merwin gate. **The TCC agreed with proceeding with Emmerson's suggestion.**

### **Frasier Diversion Dam**

Emmerson informed the attendees that the Frasier diversion dam has been lowered 12 inches. When she receives more detail around the new dam design, she will let the TCC know.

### **Land Acquisition Update**

This topic is considered confidential and proprietary and not for public viewing.

### **Other**

BPA contacted Emmerson last week as they want to make sure their biological opinion does not contradict with PacifiCorp's. Once the BPA administrator announces his decision BPA will have 6 months to produce a record of decision (ROD). Mitigation will not need to be included in the ROD.

*<11:00am Meeting Adjourned>*

### **Agenda items for March 8, 2017**

- Review February 8, 2017 Meeting Notes
- PacifiCorp WHMP 2017 Plan
- Field Tour – Units 7, 8 and possibly Unit 1
- Project Updates
- Land Acquisition Update (**CONFIDENTIAL**)

### **Next Scheduled Meeting**

March 8, 2017
Location: HCC & Field Tour

**Attachments:**

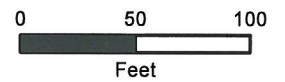
- February 8, 2017 Meeting Agenda
- **Attachment A** – Saddle Dam Weir Monitoring Site Photos, January 19, 2017
- **Attachment B** – Lewis River Microwave Beam Path Area (Cougar)
- **Attachment C** – Unit 1 Proposed 2017 Harvest Plan



# Lewis River Microwave Beam Path Area

## Legend

- Beam Path Area
- Contour (20')
- Vegetation Cover
- Management Unit
- Facility Point
- Facility Line
- Highway
- Road
- Abandon/Orphan
- Water Body



1:1,000

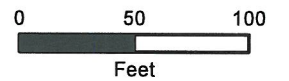


# Lewis River Microwave Beam Path Area

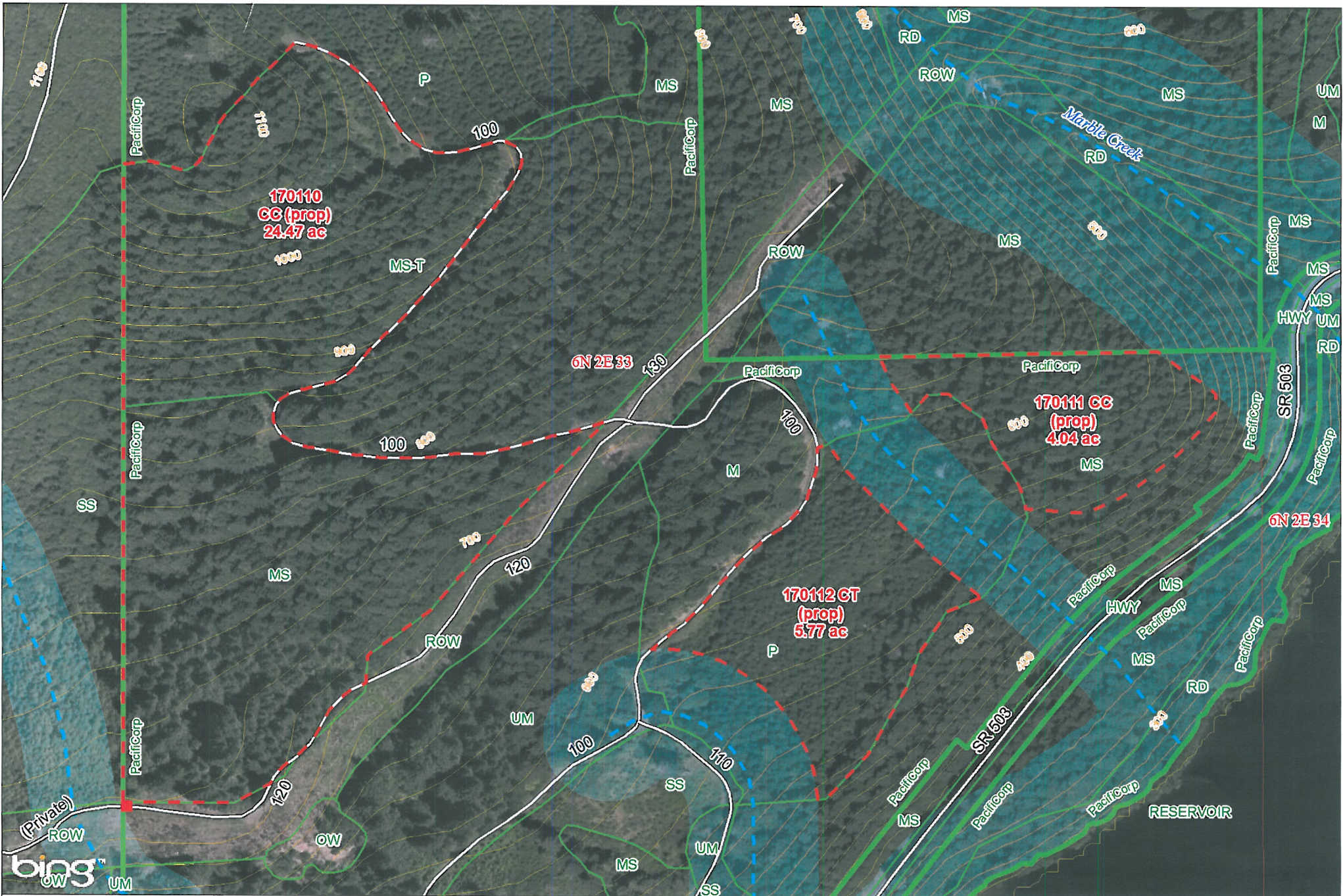


## Legend

- Beam Path Area
- Contour (20')
- Vegetation Cover
- Management Unit
- Facility Point
- Facility Line
- Highway
- Road
- Abandon/Orphan
- Water Body



1:1,000



# WHMP - Unit 1

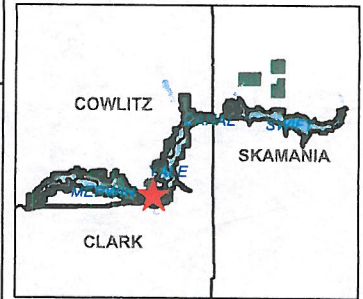
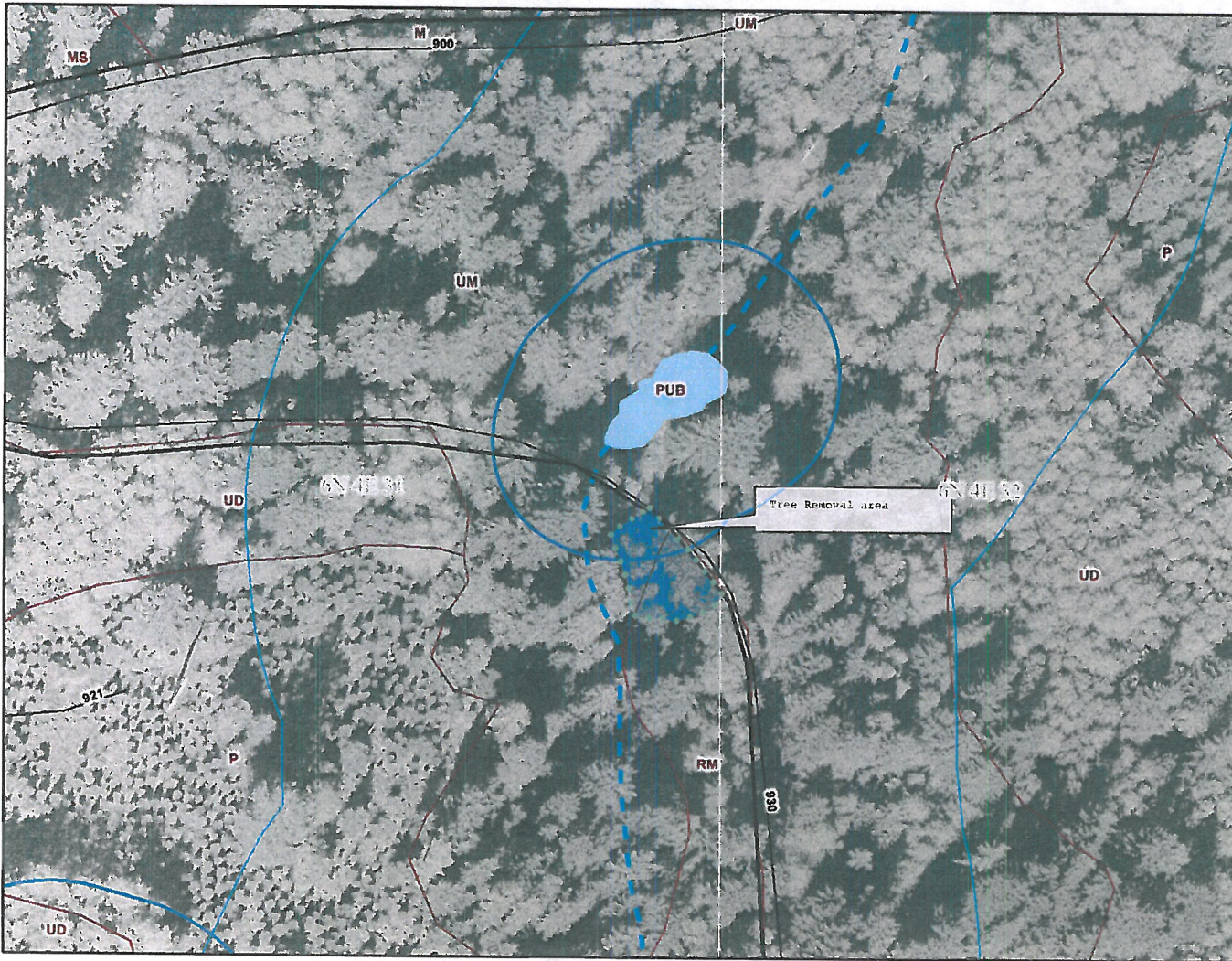
## 2017 Proposed Harvest Areas

- Proposed Harvest
- Section
- Stream
- Gate
- Vegetation Cover
- Shore/Stream Buffer
- Road
- Contour (20')
- PacifiCorp Ownership



0 100  
 Feet  
 1:3,500





**Legend**

- Generation Facilities**
  - Hydro
  - Geothermal
  - Thermal
  - Wind
  - Biomass
- Surveyed Corner**
  - ⊕ Surveyed Section Corner
  - ⊗ Surveyed Property Corner
  - ⊙ Other Surveyed Corner
- ⊙ PacifiCorp Transmission Pole
- Road
- PacifiCorp Transmission Line
- FERC Boundary
- Section
- ▭ Wetland Buffer
- ▭ Stream Buffer
- ▭ Wetland (Polygon)
- Stream**
  - Fish Stream
  - Non-Fish Perennial
  - Non-Fish Seasonal
  - Other
- ▭ Vegetation Cover

0 175 350 525 ft.



Scale: 1:1,806

This map is a user generated static output from an Internet mapping site and is for general reference only. Data layers that appear on this map may or may not be accurate, current, or otherwise reliable. THIS MAP IS NOT TO BE USED FOR NAVIGATION.



01/19/2017 10:59



01/19/2017 11:01



01/19/2017 11:00