

2017 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN

A) Annual Report and Webpage

1. Distribute Aquatic Settlement Agreement Annual Report to Aquatic SWG, BIA and NMFS **March 15, 2017**
2. Final Annual Report approved by Aquatic SWG and NMFS **April 30, 2017**
3. Annual Report filed with FERC **May 28, 2017**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2017**
5. Maintain/Update public website **Throughout 2017**

B) White Sturgeon MP

1. Continue rearing Phase I juvenile sturgeon **Throughout 2017**
2. Juvenile sturgeon tagging/marking **May 2017**
3. Draft Monitoring and Evaluation Report Program **March 2017**
4. Approval of Monitoring and Evaluation Report Program **April 2017**
5. Release final year of Phase I juvenile sturgeon with public participation **June 2017**
6. Phase II larvae collection for 2018 release **June-July 2017**
7. Rearing of juvenile sturgeon for 2018 release **June-December 2017**
8. Year 3 of Monitoring and Evaluation Program **June-September 2017**
9. Technical participation in regional forums **Throughout 2017**
10. Incorporate White Sturgeon MP activities into Aquatic SA Annual Report to FERC **March 2017**

C) Bull Trout MP

1. Stranding surveys as necessary (only implemented at reservoir elevations below 773' MSL; Up to five) **Throughout 2017**
2. Enumerate bull trout in Wells Dam count windows **Throughout 2017**
3. Monitor (via counts) for sub-adults at Wells Dam (>10/year triggers additional measures) **Throughout 2017**
4. ESA bull trout incidental take report to the FWS for review and approval **April 2017**
5. ESA bull trout incidental take report to the FERC **May 2017**
6. Bull trout salvage during ladder maintenance **January 2017/December 2017**
7. Recovery planning participation/regional coordination **Throughout 2017**
8. Incorporate 2016 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **March 2017**
9. Wells Dam and Twisp Weir RT Study Complete **August 2017**
10. Wells Dam and Twisp Weir RT Report for review **October 2017**
11. Wells Dam and Twisp Weir RT Report and file with FERC **November 2017**

D) Water Quality MP

1. 2016 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2017**
2. 2016 Gas Abatement Plan Report approval **February 2017**
3. 2016 Gas Abatement Plan Report filed with FERC **February 2017**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2017**
5. 2017 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2017**
6. 2017 Gas Abatement Plan approval **February 2017**
7. 2017 Gas Abatement Plan filed with FERC for approval **February 2017**
8. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2017**
9. Real-time temperature monitoring (hourly with web-accessibility) **Throughout 2017**
10. 2016 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2017**
11. 2016 Water Temperature Report approval **April 2017**
12. 2016 Water Temperature Report to FERC **April 2017**
13. Water Quality Attainment Plan (WQAP) implementation including Energy Accounting Development and fine scale spill monitors **Throughout 2017**
14. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2017**
15. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2017**
16. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **March 2017**

E) Pacific Lamprey MP

1. Provide update on 2016 Lamprey Approach, Passage, and Enumeration Study to Aquatic SWG **March 2017**
2. Discuss/determine lamprey study alternative measures for 2017 **April 2017**
3. Implement lamprey study alternative measures **Throughout 2017**
4. Draft 2016 Lamprey Approach, Passage, and Enumeration Study Report to Aquatic SWG for review **June 2017**
5. 2016 Lamprey Approach, Passage, and Enumeration Study Report approval **July 2017**
6. Draft juvenile lamprey passage and survival literature review to Aquatic SWG for review **September 2017**
7. Ladder salvage during winter maintenance **January 2017 and December 2017**
8. Fishway inspection, if requested **December 2017**
9. Regional participation in forums and technical information sharing **Throughout 2017**
10. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **March 2017**

F) Aquatic Nuisance Species MP

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2017**
2. Verify condition of ANS signs at boat launches **Throughout 2017**.
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2017**
4. Zebra mussel monitoring with substrate mats and plankton tows **April-October 2017**
5. Zebra mussel monitoring using experimental DNA sampling techniques **April-October 2017**
6. Water chemistry analysis to inform potential for zebra mussel invasion **April-October 2017**
7. Crayfish incidental captures database management **Throughout 2017**
8. Crayfish monitoring **August-September 2017**
9. Milfoil monitoring adjacent to recreation sites **Summer 2017**
10. Northern Pike tangle net survey – Wells Reservoir **Summer 2017**
11. Cyanobacteria monitoring and if needed public health advisories **Throughout 2017**
12. Regional coordination **Throughout 2017**
13. Incorporate ANS MP activities into Aquatic SA annual Report to FERC **March 2017**

G) Resident Fish MP

1. 2016 Pikeminnow Report to Aquatic SWG and HCP CC for review **April 2017**
2. 2016 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **April 2017**
3. 2017 Pikeminnow control activities **March-November 2017**
4. Regional coordination **Throughout 2017**
5. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to FERC **March 2017**