

2018 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, 2018**
2. Final Annual Report approved by Aquatic SWG and NMFS **April 30, 2018**
3. Annual Report filed with FERC **May 28, 2018**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2018**
5. Maintain/Update public website **Throughout 2018**

B) White Sturgeon MP

1. FERC Approval of Phase II Sturgeon Brood Stock Collection and Breeding Plan **March 2018**
2. Continue rearing juvenile sturgeon **Throughout 2018**
3. Draft 3-Year Monitoring and Evaluation Report Program **March 2018**
4. Approval of 3-Year Monitoring and Evaluation Report Program **April 2018**
5. Juvenile sturgeon tagging/marking **May 2018**
6. Release n = 325 (≥ 200 g) juvenile sturgeon with public participation **June 2018**
7. Phase II larvae collection for BY2019 **June-July 2018**
8. Rearing of juvenile sturgeon for 2019 release **June-December 2018**
9. Adult indexing/monitoring **September 2018**
10. Technical participation in regional forums **Throughout 2018**
11. Incorporate White Sturgeon MP activities into Aquatic SA Annual Report to FERC **March 2018**

C) Bull Trout MP

1. SOA: Stranding surveys at reservoir elevations below 773' MSL; Up to five **May 2018**
2. Enumerate bull trout in Wells Dam count windows **Throughout 2018**
3. Monitor (via counts) for sub-adults at Wells Dam (>10 /year triggers additional measures) **Throughout 2018**
4. ESA bull trout Incidental Take Report to the FWS for review and approval **April 2018**
5. ESA bull trout Incidental Take Report to the FERC **May 2018**
6. Bull trout salvage during ladder maintenance **January 2018/December 2018**
7. Recovery planning participation/regional coordination **Throughout 2018**
8. Incorporate 2016 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **March 2018**

D) Water Quality MP

1. 2017 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2018**
2. 2017 Gas Abatement Plan Report approval **February 2018**
3. 2017 Gas Abatement Plan Report filed with FERC **February 2018**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2018**
5. 2018 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2018**
6. 2018 Gas Abatement Plan approval **February 2018**
7. 2018 Gas Abatement Plan filed with FERC for approval **February 2018**
8. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2018**
9. Real-time temperature monitoring (hourly with web-accessibility) **Throughout 2018**
10. 2017 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2018**
11. 2017 Water Temperature Report approval **May 2018**
12. 2017 Water Temperature Report to FERC **May 2018**
13. Water Quality Attainment Plan (WQAP) implementation including Completion of Energy Accounting Development and fine scale spill monitors **Throughout 2018**
14. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2018**
15. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2018**
16. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **March 2018**

E) Pacific Lamprey MP

1. Provide draft study report on 2016 Lamprey Approach, Passage, and Enumeration Study to Aquatic SWG **February 2018**
2. Discuss/determine lamprey study alternative measures including lamprey SOA designed to translocation adult lamprey above wells, defer and design subsequent passage studies and/or examine fishway design and velocities **Throughout 2018**
3. Implement lamprey study alternative measures such as lamprey translocation program **Throughout 2018**
4. Final 2017 Lamprey Approach, Passage, and Enumeration Study Report approval **April 2018**
5. Draft juvenile lamprey passage and survival literature review to Aquatic SWG for review **January 2018**
6. Ladder salvage during winter maintenance **January 2018 and December 2018**
7. Fishway inspection, if requested **January 2018**
8. Regional participation in forums and technical information sharing **Throughout 2018**
9. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **March 2018**

F) Aquatic Nuisance Species MP

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2018**
2. Verify condition of ANS signs at boat launches **Throughout 2018**.
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2018**
4. Zebra mussel monitoring with substrate mats and plankton tows **April-October 2018**
5. 2017 Water chemistry report providing results from year one monitoring **April 2018**
6. Water chemistry analysis to inform potential for zebra mussel invasion **April-October 2018**
7. Crayfish incidental captures database management **Throughout 2018**
8. Crayfish monitoring **August-September 2018**
9. Milfoil monitoring adjacent to recreation sites **Summer 2018**
10. Discuss Northern Pike monitoring/suppression methods **January 2018**
11. Northern Pike monitoring survey – Wells Reservoir **Spring 2018**
12. Cyanobacteria monitoring and if needed public health advisories **Throughout 2018**
13. Regional coordination **Throughout 2018**
14. Incorporate ANS MP activities into Aquatic SA annual Report to FERC **March 2018**

G) Resident Fish MP

1. 2017 Pikeminnow Report to Aquatic SWG and HCP CC for review **April 2018**
2. 2017 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **April 2018**
3. 2018 Pikeminnow control activities **March-November 2018**
4. Regional coordination **Throughout 2018**
5. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to FERC **March 2018**