

2021 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN
APPROVED FEBRUARY 10, 2021

A) Annual Report and Webpage

1. Distribute 2020 Aquatic Settlement Agreement Annual Report to Aquatic SWG, BIA and NMFS **March 12, 2021**
2. Final Annual Report approved by Aquatic SWG and NMFS **May 12, 2021**
3. Annual Report filed with FERC **May 31, 2021**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2021**
5. Maintain/Update public website **Throughout 2021**

B) White Sturgeon MP

1. Continue rearing BY2020 juvenile sturgeon **Jan-June 2021**
2. BY2020 Juvenile sturgeon tagging/marking **January 2021**
3. Incorporate 2020 White Sturgeon MP activities into Aquatic SA Annual Report to FERC **March 2021**
4. Release $n \sim 325$ (≥ 200 g) juvenile sturgeon (BY2020) **May/June 2021**
5. Phase II larvae collection for BY2021 **June-July 2021**
6. Rearing of BY2021 juvenile sturgeon for 2022 release **June-December 2021**
7. Juvenile Indexing Sessions 1 and 2 **August & October 2021**
8. Study Plan Development for Adult M&E- Reproductive Assessment **December 2021**
9. Adult and subadult stock assessment and/or adult acoustic tagging **TBD 2021**
10. Technical participation in regional forums **Throughout 2021**

C) Bull Trout MP

1. Enumerate bull trout in Wells Dam count windows **Throughout 2021**
2. Monitor (via counts) for sub-adults at Wells Dam (>10 /year triggers additional measures) **Throughout 2021**
3. ESA bull trout Incidental Take Report to the FWS for review and approval **April 2021**
4. Incorporate 2020 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **May 2021**
5. Setup Radio Telemetry Sites for Bull Trout Study **March 2021**
6. Tag $n = 60$ 450mm FL Bull Trout at Wells Dam and the Twisp Weir **May-July 2021**
7. Track study fish throughout study range **May-December 2021**
8. Iterim radio telemetry study report to the Aquatic SWG December **2021**
9. Bull trout salvage during ladder maintenance **January 2021/December 2021**
10. Recovery planning participation/regional coordination **Throughout 2021**

D) Water Quality MP

1. 2020 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2021**
2. 2020 Gas Abatement Plan Report approval **February 2021**
3. 2020 Gas Abatement Plan Report filed with FERC **February 2021**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2021**
5. 2021 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2021**
6. 2021 Gas Abatement Plan approval **February 2021**
7. 2021 Gas Abatement Plan filed with FERC for approval **February 2021**
8. Biological monitoring of resident and salmonid fishes **April-August 2021**
9. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2021**
10. Real-time temperature monitoring at n = 6 locations (hourly with web-accessibility) **Throughout 2021**
11. 2020 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2021**
12. 2020 Water Temperature Report approval **May 2021**
13. 2020 Water Temperature Report to FERC **May 2021**
14. Water Quality Attainment Plan (WQAP) implementation **Throughout 2021**
15. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2021**
16. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2021**
17. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **March 2021**
18. Participate in the implementation of final EPA issued water temperature TMDL **Throughout 2021**

E) Pacific Lamprey MP

1. Fishway inspection: identify diffuser grating gaps, fix gaps 1" or greater **January-March 2021**
2. Lamprey Translocation **July-September 2021**
3. Approved Adult Approach and Passage Study Plan **December 2021**
4. Update PIT Tag Detection History tables **December 2021**
5. Juvenile lamprey PIT tagging and migration monitoring **March-August 2021**
6. Ladder salvage during winter maintenance **January/February 2021 and December 2021**
7. Regional participation in forums and technical information sharing **Throughout 2021**
8. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **March 2021**
9. Update lamprey literature review document libraries **November 2021**

F) Aquatic Nuisance Species MP

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2021**
2. Verify condition of ANS signs at boat launches and add Northern Pike signage **Throughout 2021**
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2021**
4. Zebra mussel monitoring with substrate mats and plankton tows **June-October 2021**
5. Crayfish incidental captures database management **Throughout 2021**
6. Crayfish monitoring **July-October 2021**
7. Milfoil monitoring adjacent to recreation sites **Summer 2021**
8. Northern Pike monitoring – eDNA and ASWG approved suppression **March-October 2021**
9. Update, as needed, the Northern Pike Rapid Respose and Eradication Plan **Throughout 2021**
10. Cyanobacteria monitoring and if needed public health advisories **Throughout 2021**
11. Regional coordination **Throughout 2021**
12. Incorporate 2020 ANSMP activities into Aquatic SA annual Report to FERC **March 2021**

G) Resident Fish MP

1. 2020 Pikeminnow Report to Aquatic SWG and HCP CC for review **April 2021**
2. 2020 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **April 2021**
3. Resident Fish Seasonal Movement and Habitat Use Study **April-August 2021**
4. Provide 2020 Resident Fish Movement and Habitat Use Report to Aquatic SWG **May 2021**
5. 2021 Pikeminnow control activities **March-November 2021**
6. Regional coordination including CRITFC stomach analysis **Throughout 2021**
7. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to FERC **March 2021**