

**2022 AQUATIC SETTLEMENT AGREEMENT AND WORKGROUP ACTION PLAN
FEBRUARY 9, 2022**

A) Annual Report and Webpage

1. Distribute 2021 Aquatic Settlement Agreement Annual Report to Aquatic SWG, BIA and NMFS **March, 2022**
2. Final Annual Report approved by Aquatic SWG and NMFS **May 11, 2022**
3. Annual Report filed with FERC **May 31, 2022**
4. Maintain Aquatic Settlement Web Portal/Database **Throughout 2022**
5. Maintain/Update public website **Throughout 2022**

B) White Sturgeon MP

1. Continue rearing BY2021 juvenile sturgeon **Jan-June 2022**
2. BY2021 Juvenile sturgeon tagging/marking **January 2022**
3. Incorporate 2021 White Sturgeon MP activities into Aquatic SA Annual Report to FERC **March 2022**
4. Study Plan Development for Adult M&E- Reproductive Assessment **February 2022**
5. Future stocking rate determination SOA for 2023 release **March 2022**
6. Release n ~ 325 (≥ 200 g) juvenile sturgeon (BY2021) **May/June 2022**
7. Phase II larvae collection for BY2022 **June-July 2022**
8. Rearing of BY2022 juvenile sturgeon for 2023 release **June-December 2022**
9. Conduct adult reproductive assessment **June/July 2022**
10. Technical participation in regional forums **Throughout 2022**

C) Bull Trout MP

1. Enumerate bull trout in Wells Dam count windows **Throughout 2022**
2. Bull Trout Stranding Survey yr 10 (<773 msl) **Oppurtunistically 2022**
3. Monitor (via counts) for sub-adults at Wells Dam (>10/year triggers additional measures) **Throughout 2022**
4. ESA bull trout Incidental Take Report to the FWS for review and approval **April 2022**
5. Incorporate 2021 Bull Trout MP activities and incidental take monitoring into Aquatic SA annual Report to FERC **May 2022**
6. Bull Trout Movement and Life History Investigation, Tag n = 60, >450mm FL Bull Trout at Wells Dam and the Twisp Weir **May-July 2022**
7. Track study fish throughout study range **May-December 2022**
8. Bull Trout Movement and Life History Investigation Update to Aquatic SWG **December 2022**
9. Bull trout salvage during ladder maintenance **January 2022/December 2022**
10. Recovery planning participation/regional coordination **Throughout 2022**

D) Water Quality MP

1. 2021 Gas Abatement Plan (GAP) Report to ASWG and NMFS for review **January 2022**
2. 2021 Gas Abatement Plan Report approval **February 2022**
3. 2021 Gas Abatement Plan Report filed with FERC **February 2022**
4. Update the QAPP at the request of the Aquatic SWG **Throughout 2022**
5. 2022 Gas Abatement Plan and Bypass Operating Plan Draft for review **January 2022**
6. 2022 Gas Abatement Plan approval **February 2022**
7. 2022 Gas Abatement Plan filed with FERC for approval **February 2022**
8. Biological monitoring of resident and salmonid fishes for Gas Bubble Trauma **April-August 2022**
9. Year-round TDG monitoring at three locations (hourly with web-accessibility) **Throughout 2022**
10. Real-time temperature monitoring at n = 6 locations (hourly with web-accessibility) **Throughout 2022**
11. 2021 Water Temperature Report to Aquatic SWG and HCP CC for comments **March 2022**
12. 2021 Water Temperature Report approval **May 2022**
13. 2021 Water Temperature Report to FERC **May 2022**
14. Water Quality Attainment Plan (WQAP) implementation **Throughout 2022**
15. Water Quality Protection Plan, as needed (60 d before action), for Future Construction Activities **Throughout 2022**
16. Participate in WQ forums (e.g., TMDL, Columbia River Treaty, STT-WQ, CSR-SRI, etc.) **Throughout 2022**
17. Incorporate Water Quality MP Activities into Aquatic SA Annual Report to FERC **March 2022**
18. Participate in the implementation of final EPA issued water temperature TMDL **Throughout 2022**

E) Pacific Lamprey MP

1. Adult Approach and Passage Study Plan and translocation SOA to ASWG for review **January 2022**
2. Approved Adult Approach and Passage Study Plan and translocation SOA **February 2022**
3. Grant PUD SOA funding trapping at PRD **February 2022**
4. Lamprey Translocation **July-September 2022**
5. Implement Adult Approach and Passage Study Plan **July – December 2022**
6. Update PIT Tag Detection “last seen table” History tables (all brood years available) **December 2022**
7. Juvenile lamprey PIT tagging and migration monitoring Methow River at Carlton RST **March-August 2022**
8. Ladder salvage during winter maintenance **January/February 2022 and December 2022**
9. Regional participation in forums and technical information sharing **Throughout 2022**
10. Incorporate Pacific Lamprey MP activities into Aquatic SA Annual Report to FERC **March 2022**
11. Update/present/discuss lamprey literature review document libraries and applications **November 2022**

F) Aquatic Nuisance Species MP

1. Apply ANS Best Management Practices for all in-water construction work **Throughout 2022**
2. Verify condition of ANS signs at boat launches and add Northern Pike signage **Throughout 2022**
3. ANS pamphlets at Wells Project boat launches and visitor overlook **Throughout 2022**
4. Zebra mussel monitoring with substrate mats and plankton tows **June-October 2022**
5. Crayfish incidental captures database management **Throughout 2022**
6. Crayfish monitoring **October 2022**
7. Northern Pike monitoring – eDNA and ASWG approved suppression **March-October 2022**
8. Update, as needed, the Northern Pike Rapid Respose and Erradication Plan **Throughout 2022**
9. Cyanobacteria monitoring and if needed public health advisories **Throughout 2022**
10. Regional coordination **Throughout 2022**
11. Incorporate 2021 ANSMP activities into Aquatic SA annual Report to FERC **March 2022**

G) Resident Fish MP

1. 2021 Pikeminnow Report to Aquatic SWG and HCP CC for review **April 2022**
2. 2021 Pikeminnow Report incorporated into Aquatic SA Annual Report to FERC **April 2022**
3. Resident Fish Electrofishing monitoring **April-August 2022**
4. 2022 Pikeminnow control activities **March-November 2022**
5. Regional coordination including CRITFC stomach analysis **Throughout 2022**
6. Incorporate Resident Fish MP activities into Aquatic SA Annual Report to FERC **March 2022**