



Meeting Minutes

Aquatic Settlement Work Group

To: Aquatic SWG Parties

Date: February 15, 2018

From: John Ferguson, Chair (Anchor QEA, LLC)

Re: Final Minutes of the January 10, 2018 Aquatic SWG Meeting

The Aquatic Settlement Work Group (SWG) met in-person at Wells Dam in Azwell, Washington, on Wednesday, January 10, 2018, from 9:15 a.m. to 3:00 p.m. Attendees are listed in Attachment A of these meeting minutes.

I. Summary of Action Items

1. The Aquatic SWG will debrief on the Wells Dam tour held on January 10, 2018, during the Aquatic SWG conference call on February 14, 2018 (Item VI-1).
2. Douglas PUD will develop a draft Statement of Agreement (SOA) describing how Douglas PUD will support Pacific Lamprey translocation efforts in future years (tentatively expected following finalization of the technical memorandum, *Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam*, and an acoustic telemetry Pacific Lamprey approach report being drafted by Douglas PUD in coordination with LGL Limited; Item VII-1).
3. Douglas PUD will request approval of the draft technical memorandum, *Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam*, during the Aquatic SWG conference call on February 14, 2018 (Item VII-2).
4. Jason McLellan will provide Douglas PUD with White Sturgeon growth curves to assist with meeting the target fish size at release for brood year 2017 White Sturgeon on station at Wells Dam Fish Hatchery (Item VII-3).
5. Douglas PUD will request approval of the draft *2018 Aquatic Settlement Agreement and Workgroup Action Plan* during the Aquatic SWG conference call on February 14, 2018 (Item VII-5).
6. Steve Lewis will provide questions from the Rocky Reach Fish Forum (RRFF) to the Aquatic SWG regarding ongoing regional Pacific Lamprey discussions (Item VII-8). (*Note: Lewis provided the Draft RRFF January 3, 2018 meeting minutes to the Aquatic SWG on February 8, 2018, which include RRFF discussions on the ongoing Pacific Lamprey discussions.*)

7. The Aquatic SWG meeting on February 14, 2018, will be held by **conference call** (Item VIII-1).

II. Summary of Decisions

1. There were no decisions approved during today's meeting.

III. Agreements

1. There were no agreements discussed during today's meeting.

IV. Review Items

1. The draft technical memorandum, *Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam*, was distributed to the Aquatic SWG by Kristi Geris on November 28, 2017. Douglas PUD will request approval of this memorandum during the Aquatic SWG meeting on February 14, 2018 (Item VII-2).
2. The draft *2018 Aquatic Settlement Agreement and Workgroup Action Plan* was distributed to the Aquatic SWG by Kristi Geris on December 18, 2017. Douglas PUD will request approval of this plan during the Aquatic SWG meeting on February 14, 2018 (Item VII-5).
3. The draft *Wells Hydroelectric Project Total Dissolved Gas Abatement Plan 2017 Annual Report* was distributed to the Aquatic SWG for review by Kristi Geris on January 16, 2018, with edits and comments due to Andrew Gingerich by February 12, 2018. Douglas PUD will request approval of this plan during the Aquatic SWG meeting on February 14, 2018.
4. The draft *2018 Total Dissolved Gas Abatement Plan and Wells Bypass Operating Plan* was distributed to the Aquatic SWG for review by Kristi Geris on January 16, 2018, with edits and comments due to Andrew Gingerich by February 12, 2018. Douglas PUD will request approval of this plan during the Aquatic SWG meeting on February 14, 2018.

V. Documents Finalized

1. There are no documents that have been recently finalized.

VI. Wells Dam Tour (Part I)

1. Wells Dam Collection Gallery and Fish Ladder (All):

Aquatic SWG members and others in attendance toured the Wells Dam collection gallery and west fish ladder. The tour also included viewing the adult fish trap and modifications installed for Pacific Lamprey studies at Wells Dam (members viewed the west ladder installations only), including the: 1) Pacific Lamprey entrance box installed in the low-level side entrances of the Wells Dam collection galleries (referred to as the C-channel); and 2) the aluminum ramps and

Pacific Lamprey enumeration structures installed at the count windows. Andrew Gingerich shared a *Wells Dam Fish Passage System – Overview* (Attachment B), which contains figures describing in detail the areas of Wells Dam the Aquatic SWG the members toured. This overview has been distributed to the Aquatic SWG in the past, and Kristi Geris redistributed the overview to the Aquatic SWG during the meeting on January 10, 2018. The Aquatic SWG will debrief on the Wells Dam tour held on January 10, 2018, during the Aquatic SWG meeting on February 14, 2018.

VII. Summary of Discussions

1. Welcome, Review Agenda, Meeting Minutes Approval, and Review of Action Items (John Ferguson):

John Ferguson welcomed the Aquatic SWG members (attendees are listed in Attachment A) and reviewed the agenda. Ferguson asked for any additions or other changes to the agenda. The following revisions were requested:

- Chas Kyger added the U.S. Fish and Wildlife Service (USFWS) Dreissenid Mussel Response Action Plan.
- Steve Lewis added RRF questions regarding ongoing regional Pacific Lamprey passage discussions.

The revised draft December 13, 2017 conference call minutes were reviewed. Kristi Geris said all comments and revisions received from members of the Aquatic SWG were incorporated into the revised minutes, and there are no outstanding edits or questions to discuss. Aquatic SWG members present approved the December 13, 2017 conference call minutes, as revised.

Action items from the Aquatic SWG conference call on December 13, 2017, are as follows (note: the following italicized item numbers correspond to agenda items from the December 13, 2017 meeting):

- *Douglas PUD will develop a draft SOA describing how Douglas PUD will support Pacific Lamprey translocation efforts in future years (tentatively expected following finalization of the technical memorandum, Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam, and an acoustic telemetry Pacific Lamprey approach report being drafted by Douglas PUD in coordination with LGL Limited; Item VI-1).*

This action item will be carried forward. Steve Lewis said, during the last Priest Rapids Fish Forum, Grant PUD discussed a Grant PUD Pacific Lamprey translocation SOA, which addresses adult impacts and involves translocating fish trapped at Priest Rapids Dam to a location near Kirby Billingsley Hydro Park (located 2 miles south of East Wenatchee, Washington, on Highway 28). Chas Kyger said Douglas PUD has been coordinating with Mike Clement (Grant PUD) regarding Pacific Lamprey activities. Patrick Verhey asked if the

Douglas PUD Pacific Lamprey SOA will address translocation-only or all Pacific Lamprey studies. Kyger said the Douglas PUD Pacific Lamprey SOA will include translocation, prioritization of studies, development of study plans, what triggers implementation of studies, and what areas of the fishways to focus on first. RD Nelle (USFWS) asked what are the triggers? Kyger said, lack of approach and small sample size are the issues right now. Andrew Gingerich said Douglas PUD can propose several potential triggers (e.g., time, conversion rates, among others), and it is up to the Aquatic SWG to decide which triggers to use. Verhey said he would like to keep it simple, but also know where things stand. Nelle recalled the last Aquatic SWG conference call he attended when pheromones were discussed, along with how many fish upstream would be considered enough to initiate additional studies? Kyger said historical Wells Dam count data are limited. Verhey said he recently heard that Steve Hays (Chelan PUD) has hard copies of historical data, which may be worth reviewing. Kyger questioned how confident one can be of those numbers, which depends on the quality of the data collection records. John Ferguson said there may not be a solid number that triggers at-concrete studies; rather, the trigger may just be based on discussions at the time of the research.

- *The Aquatic SWG will formalize responses to the questions received from the Pacific Lamprey Subgroup on October 11, 2017, in the form of the Aquatic SWG-approved November 8, 2017 conference call minutes, which will be provided to Tracy Hillman (RRFF Facilitator) for distribution to the subgroup (Item VI-1).*

Kristi Geris provided the final Aquatic SWG-approved November 8, 2017 conference call minutes to Hillman for distribution, following the Aquatic SWG conference call on December 13, 2017.

- *Aquatic SWG members will submit edits and comments on the draft technical memorandum, Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam, to Chas Kyger no later than January 5, 2018 (Item VI-3).*

This will be discussed during today's meeting.

- *Chas Kyger will review the data presented in Figure 4 of the Wells Dam turbine unit flow data document, and will provide updates, if any, to Kristi Geris for distribution to the Aquatic SWG (Item VI-4).*

Kyger corrected the data in Figure 4 and provided an updated version to Geris on December 18, 2017, which Geris distributed to the Aquatic SWG that same day.

- *Chas Kyger will contact Ralph Lampman (Yakama Nation [YN]) and Paul Wagner (Colville Confederated Tribes [CCT]) regarding interest in translocating Pacific Lamprey encountered during fish rescues conducted at Wells Dam during annual winter maintenance in 2017 and future years (Item VI-4).*

Kyger said he spoke with Lampman and Wagner and plans to coordinate with the YN and the CCT in the future.

- *Andrew Gingerich and Kristi Geris will coordinate on distributing a logistics email for convening in-person for the Aquatic SWG meeting on January 10, 2018 (Item VII-1).*

This email was distributed to the Aquatic SWG on December 14, 2018.

2. DECISION: Temporary Fishway “Lamprey Operations”: 2017 Pacific Lamprey Migration at Wells Dam Technical Memorandum (Andrew Gingerich):

Chas Kyger said the draft technical memorandum, *Temporary Fishway “Lamprey Operations”: 2017 Pacific Lamprey Migration at Wells Dam*, was distributed to the Aquatic SWG by Kristi Geris on November 28, 2017, with edits and comments due to Kyger no later than January 5, 2018. Kyger recalled, this is the summary report for the fishway head differential treatments implemented at Wells Dam during September 2017. He said no comments were received on the draft memorandum, and Douglas PUD would now like to obtain approval of the document.

Ralph Lampman asked if the 1.0-foot reduction in head affected within ladder conditions.

Kyger said the treatment only applied to the fishway entrance.

Steve Lewis asked about the process for initiating “lamprey operations” at Wells Dam in 2018, if another high run occurs. John Ferguson said this protocol has not yet been discussed.

Andrew Gingerich questioned the value of implementing lamprey operations again, based on the information obtained to date. He said in terms of the process, the Aquatic SWG needs to: 1) draft an SOA explaining what the SWG hopes to accomplish with the operation; 2) take the SOA to the Wells HCP Coordinating Committee, stating the proposed operations will not affect salmonids; and 3) obtain approval of the modifications from the Wells HCP Coordinating Committee. Gingerich suggested that if the Aquatic SWG wants to implement lamprey operations at Wells Dam in 2018, this process should start sooner than last year. Ferguson suggested starting these discussions in April 2018. Lewis agreed April is a good time to start looking at run numbers.

Lampman asked if it is feasible to reduce fishway entrance head differentials to 0.5-foot.

Gingerich said past studies indicate that the 0.5-foot head differential has an effect on steelhead.

Kyger said he is unsure what information additional data can provide beyond what is already known. Lampman asked if there is value in initiating lamprey operations earlier in the year.

Ferguson said this would need to be discussed and approved within the Wells HCP Coordinating Committee. Gingerich questioned, based on data to date, is there still a hypothesis that modifying head differentials at Wells Dam helps Pacific Lamprey passage? He said he does not view results to date as being promising. Kyger added, the results actually

point more in the negative direction. Gingerich suggested that in order to obtain valuable data, this type of study needs to use an active tag, because using passive integrated transponder (PIT) tags provides little information on actual fish behavior. Kyger also suggested conducting this study alongside another study, as done in the past. Lewis said he does not agree lamprey operations are not valuable because of low sample size, and still suggested these discussions begin in April 2018. Ferguson said the Douglas PUD Pacific Lamprey SOA is really the starting point, and he asked when this SOA is expected. Kyger guessed the SOA will be ready by spring 2018, in time for summer activities.

Ferguson asked if the Aquatic SWG was ready to vote on the technical memorandum, *Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam*. Jason McLellan said he has not yet had a chance to discuss the memorandum with Kirk Truscott (CCT), and the CCT are not ready to vote at this time. Kyger said there is no Federal Energy Regulatory Commission (FERC) deadline for this document, so there is no rush to vote now. Gingerich said Douglas PUD will request approval of the draft technical memorandum, *Temporary Fishway "Lamprey Operations": 2017 Pacific Lamprey Migration at Wells Dam*, during the next Aquatic SWG meeting on February 14, 2018.

3. Wells Dam Fish Hatchery Brood Year 2017 White Sturgeon Rearing Update (Andrew Gingerich):

Andrew Gingerich said on January 5, 2018, hatchery staff conducted significant sorting and grading, including the addition of another rearing tank. Gingerich said in terms of growth as a percentage of body mass, there has been up to 47% growth on a weekly basis. He said as of January 5, 2018, mean fish mass in each tank was as follows:

Rearing Tank	Mean Fish Mass (grams)
RT 4	45.4
RT 5	34.9
RT 6	26.7
RT 3	19.7
RT 2	11.1

Gingerich said water temperature in the tanks ranges from 55 to 61°F. He said mortalities have been negligible, and currently there are 1,192 fish on-station. He recalled Douglas PUD's preference to not cull surplus fish, and Jason McLellan's suggestion to potentially transfer surplus fish back to Lake Roosevelt. John Ferguson recalled the target of releasing 325 fish in June 2018, which leaves about 850 surplus fish. Gingerich reminded the Aquatic SWG that the new hatchery facility is bio-programmed to hold 5,000+ fish; therefore,

capacity is no longer an issue as it was in the past. He added, however, it will be good to have a plan in place for surplus fish in the near future, and suggested holding these discussions outside of the Aquatic SWG. He recalled transferring surplus fish in the past to Canada, Rufus Woods, and back to Lake Roosevelt. He said Douglas PUD has never culled larval-origin White Sturgeon.

Gingerich said hatchery staff are continuing to collect data each week (with the exception of the recent holiday weekend). He said he is also attempting to manage fish growth using brood year 2013 data, which indicated 25% weight gain per week at this stage is a good rate to grow fish to 200 grams at release. McLellan said he has White Sturgeon growth curves and will provide these to Douglas PUD to assist with meeting the target fish size at release for brood year 2017 White Sturgeon on station at Wells Dam Fish Hatchery. Gingerich asked if these curves are based on an in-hatchery environment or laboratory setting, and McLellan said he has curves for both. Gingerich asked if the curves include feed rates, and McLellan said no, but fish were fed to satiation.

McLellan asked, moving forward, how many larval-origin White Sturgeon are needed for Douglas PUD to meet program. Gingerich said the CCT collected about 3,000 fish last year. He said the worst fish health year to date for this program was 20% survival, and so far in 2017 survival is about 40%. He said an overall survival of 10% would have to occur to result in 300 fish at plant. McLellan said fish dying in-hatchery is not natural, and the CCT prefer this selection to occur in the natural environment. He suggested considering different husbandry practices, if the CCT continue bringing 3,000 fish and there are surplus fish on a regular basis. Gingerich asked if the CCT are still able to provide 3,000 fish. McLellan said this should not be an issue, and he was just posing the question about need. Ferguson said it seems the burden is not on the collectors; rather, the burden is on the rearing. Gingerich said it makes no difference to Douglas PUD how many fish are surplus, but he does understand the point of domestication and selection. Gingerich said there probably will be surplus fish every year, but he prefers to be conservative and meet requirements. McLellan said he understands Gingerich's point.

Ferguson asked what happens with stocking numbers in Year 10 of Douglas PUD's FERC license? Gingerich said the *White Sturgeon Management Plan* becomes adaptive and Douglas PUD and the Aquatic SWG will negotiate where to go next.

4. 3-Year White Sturgeon Monitoring and Evaluation Report and Path Forward (Andrew Gingerich):

Andrew Gingerich said Douglas PUD is still drafting this report, which will hopefully be ready for review in about 1 month. He said this report is similar to other annual White Sturgeon monitoring and evaluation (M&E) reports, only this is a 3-year report.

Gingerich noted that Douglas PUD will not conduct juvenile indexing in 2018, which started in 2015, but will continue in 2019. He said Douglas PUD may propose conducting a population assessment in fall 2018, using larger gear to target adults. He said Douglas PUD is still interested in conducting White Sturgeon M&E in 2018, just not the juvenile indexing portion. Jason McLellan asked if Douglas PUD would consider conducting juvenile indexing in 2018. He said more years mean a better dataset and precision. He added that precision is key with these programs because a small percentage in change to project stocking numbers makes a huge difference. Gingerich said there is still the opportunity to sample juvenile indexing with the larger gear. He said this is not required, but there is an opportunity to obtain data for smaller fish during adult reproductive sampling. McLellan asked about potential dates for conducting these sessions. Gingerich recalled, there were two adult sessions in 2017; however, dates have not yet been finalized for 2018. He said this is a huge field effort and he is not sure there is value in separating the sessions. He said there are higher numbers in summer/fall versus spring, so it might be best to conduct sampling later in the year. McLellan said the CCT observe the same thing. Gingerich suggested possibly one sample session in September 2018. John Ferguson asked, why September? McLellan said White Sturgeon are most active in September, likely because the river water is warmer. He said telemetry data also confirm this is when White Sturgeon move the most.

McLellan asked if Douglas PUD acoustically tags the adults. Gingerich said yes, that 2017 was the first year using acoustic tags. He said Douglas PUD did not want to perform surgeries before conducting the gonadal investigations. McLellan suggested that Douglas PUD contact the CCT about possibly coordinating on the effort to increase sample size. Gingerich asked if the CCT are interested in spending time and funds to help with the effort? McLellan said the CCT are below the contract limit for obtaining larval-origin fish for Douglas PUD's White Sturgeon program; therefore, this M&E support effort can be covered under that contract. Gingerich said Douglas PUD would first need to discuss internally about the technical value behind this effort, but the contract portion should not be an issue if it is against a not-to-exceed amount. McLellan said he only suggested this because Gingerich expressed what a huge effort this is.

Ferguson asked if the 3-Year White Sturgeon M&E Report will address these efforts, and Gingerich said it will. Ferguson suggested revisiting the CCT possibly assisting with the Douglas PUD White Sturgeon M&E effort in 2018, after the 3-year report is distributed for review. Gingerich and McLellan agreed.

5. 2018 Aquatic Settlement Agreement and Workgroup Action Plan (Andrew Gingerich):

Andrew Gingerich said the draft *2018 Aquatic Settlement Agreement and Workgroup Action Plan* was distributed to the Aquatic SWG by Kristi Geris on December 18, 2017. Gingerich said the Action Plan serves as a good layout of what is planned for the year. He said the document is not a FERC requirement and is non-binding. He said the plan is also a good tool to keep Douglas PUD and the Aquatic SWG on track each year.

Steve Lewis asked if the Pacific Lamprey SOA is included in the action plan. Chas Kyger said it is under, "Implement Pacific Lamprey study alternative measures." Lewis asked if this action plan precludes Douglas PUD from conducting a Pacific Lamprey study in 2018. Kyger said it does not.

Ralph Lampman asked about the "Draft juvenile Pacific Lamprey passage and survival literature review." Kyger said this review is an *Pacific Lamprey Management Plan* objective requirement. He said Douglas PUD will also conduct a review for adult Pacific Lamprey passage, and all documents contained in the reviews will be available for the Aquatic SWG to access.

Douglas PUD will request approval of the draft *2018 Aquatic Settlement Agreement and Workgroup Action Plan* during the Aquatic SWG meeting on February 14, 2018.

6. White Sturgeon Broodstock and Breeding Plan (Andrew Gingerich):

Andrew Gingerich said the White Sturgeon Broodstock and Breeding Plan is still undergoing internal review. He said the draft will hopefully be available for Aquatic SWG review before the next Aquatic SWG meeting on February 14, 2018.

7. U.S. Fish and Wildlife Service Dreissenid Mussel Response Action Plan (Chas Kyger):

(Note: Bob Rose emailed Douglas PUD on January 9, 2018, asking about the relevance of this plan to Douglas PUD and the Aquatic SWG.)

Chas Kyger said USFWS and Pacific States Marine Fisheries Commission are leading an effort among federal, state, and tribal entities to establish a rapid response action plan for minimizing impacts of dreissenid mussels on Endangered Species Act-listed species. Kyger said Douglas PUD has been following this effort, which has been ongoing for about a year

now. He said Douglas PUD also has monitoring programs and response action plans in place. He said Douglas PUD monitors water quality for calcium and other parameters mussels are reliant on for propagation. He said based on data collected to date, it appears the Wells reservoir is a low risk for introduction. He said Douglas PUD plans to continue monitoring, including using plankton tows for veligers and conducting substrate sampling. He said Douglas PUD is also adding environmental DNA (eDNA) as additional monitoring. John Ferguson asked who will conduct the eDNA sampling. Kyger said Douglas PUD will partner with the CCT Northern Pikeminnow effort, and noted that an eDNA analysis can include multiple species. He said other agencies are conducting sampling in the Okanogan River, as well, and Douglas PUD plans to coordinate with everyone.

Ralph Lampman asked, if the Wells reservoir is bad for the introduction of invasive mussels, is the area also bad for native mussels? Kyger said based on 6 months of chemistry data, it seems reproduction is hampered by calcium levels detected in the Wells reservoir. He said the river temperature is also not conducive for the correct calcium levels.

8. Rocky Reach Fish Forum Questions (Steve Lewis):

Steve Lewis recalled the Aquatic SWG receiving questions from a Pacific Lamprey Subgroup of the regional fish forums on October 11, 2017, and the Aquatic SWG providing formalized responses to the questions in the form of the Aquatic SWG-approved November 8, 2017 conference call minutes. Lewis said during a recent RRF meeting, additional follow-up questions were discussed and he asked if Douglas PUD wanted to discuss these now within the Aquatic SWG. Andrew Gingerich said Douglas PUD welcomes discussion of technical questions from Lewis or any of the Aquatic SWG members; however, he said if these questions are from Chelan PUD, it seems more appropriate for Chelan PUD to contact Douglas PUD with these questions, directly. Lewis said he understands, and was just trying to help collaborate between the forums. He said he will coordinate with the RRF and provide questions to the Aquatic SWG regarding ongoing regional Pacific Lamprey discussions. *(Note: Lewis provided the Draft RRF January 3, 2018 meeting minutes to the Aquatic SWG on February 8, 2018, which include RRF discussions on the ongoing Pacific Lamprey discussions.)*

Lewis said in the future, he would prefer more use of study fish obtained from Priest Rapids Dam. Chas Kyger agreed, noting that Priest Rapids Dam is Douglas PUD's first choice for fish source. John Ferguson recalled, it was Bob Rose who suggested supplementing fish obtained from lower in the river. Ralph Lampman asked if Douglas PUD has an arrangement with Grant PUD. Andrew Gingerich said Douglas PUD responded to Mike Clement (Grant PUD) via email when Clement asked about study fish needs for 2018. Kyger said he also spoke with Clement on the phone.

VIII. Next Meetings

1. Upcoming meetings (John Ferguson):

The Aquatic SWG meeting on February 14, 2018, will be held by conference call.

Other upcoming meetings include: March 14, 2018 (TBD) and April 11, 2018 (TBD).

IX. Wells Dam Tour (Part II)

1. Wells Dam Fish Hatchery and White Sturgeon Rearing Facility (Part II) (All):

Aquatic SWG members and others in attendance toured the Wells Dam Fish Hatchery (notably the new adult handling facility) and White Sturgeon rearing facility.

List of Attachments

Attachment A List of Attendees

Attachment B Wells Dam Fish Passage System – Overview

Attachment A – Attendees

Name	Role	Organization
John Ferguson	Aquatic SWG Chairman	Anchor QEA, LLC
Kristi Geris	Administration/Technical Support	Anchor QEA, LLC
Andrew Gingerich	Aquatic SWG Technical Representative	Douglas PUD
Chas Kyger	Technical Support	Douglas PUD
Breean Zimmerman	Aquatic SWG Technical Representative	Washington State Department of Ecology
Steve Lewis	Aquatic SWG Technical Representative	U.S. Fish and Wildlife Service
RD Nelle	Technical Support	U.S. Fish and Wildlife Service
Patrick Verhey	Aquatic SWG Technical Representative	Washington Department of Fish and Wildlife
Jason McLellan	Aquatic SWG Technical Representative	Colville Confederated Tribes
Paul Wagner	Technical Support	Colville Confederated Tribes
Ralph Lampman	Technical Support	Yakama Nation
Sean Goudy	Technical Support	Yakama Nation
Tyler Beals	Technical Support	Yakama Nation