

Meeting Summary
Lake Ozette Sockeye Steering Committee
January 15, 2015 // 10:15 am – 3:15 pm
Location: Sekiu Community Center

Meeting Decisions List:

- The Committee accepted the September 11, 2014 meeting summary.
- The Committee will review the Near-Term Priority List during the next meeting and will determine which projects should be included on the list (including adding projects from the Master List).
- The Committee agreed that an initial phase of public vetting took place at this meeting for the Lake Ozette Watershed Restoration project (related to invasive weed mapping, identification, and control, and proposed by the Makah Tribe to be included in the Washington Coast Restoration Initiative funding proposal). The Committee requested more information about the project at the next meeting.

Introductions and Agenda Review

Claire Turpel, the facilitator from Triangle Associates, welcomed the Lake Ozette Sockeye Steering Committee (LOSSC or “the Committee”), and LOSSC members introduced themselves (*see Attachment I*). The facilitator reviewed the agenda and noted that the agenda item “Coal Creek Culvert-to-Bridge Project Overview” would be postponed until the next meeting because the presenters were unable to attend this meeting. It was also noted that the agenda topic “update on Washington Coast Restoration Initiative funding proposal” would include a discussion regarding the topic.

Meeting Summary Review

The Committee reviewed the draft September 11, 2014 LOSSC meeting summary. There were no edits or suggestions from the Committee. The Committee accepted the summary as final.

Updates and Announcements

- A member shared that Makah fisheries recently finished hatchery broodstocking and escape monitoring in Umbrella Creek. They tagged over 500 fish between October-December 2014. They opened the weir and shut the trap, which is still partially in the water and will be pulled out in the next several weeks. They are still incubating eggs in the national hatchery. There have been some issues with warmer temperatures because the schedule is ahead due to higher temperatures.
- A member shared that they completed two days of surveys on beaches. They also finalized estimates for the Umbrella Creek spawning statement for the last 13 to 14 years, and are finalizing all of the Lake Ozette escapement into the Lake, Umbrella Creek, and Big River since 1998.
 - A member asked if surveyors noticed a difference in the lake level/hydrology, and if that had any impacts on the fish. It was noted that the fish are mostly using the middle beach for spawning, not the upper beach. It is expected that there will be more upper beach spawners next year. Last year when doing the surveys the lake was about 3.5 to 4 feet shallower.
- A member noted several updates related to Olympic National Park (ONP/the Park).
 - ONP and the Makah Tribe have been in touch about confirming who is monitoring lake levels. The Ozette Ranger is currently in training out of state for several months, so ONP

- will see if a maintenance staff member could assist with monitoring. Monitoring for November and December 2014 may have been missed.
- The National Park Service (NPS) is putting together a water quality report. NPS has long-term water quality monitoring stations, one of which is in the Ozette area (Ozette River and Umbrella Creek). An initial report will be released in February and it will be a summary of data from the stations.
 - ONP's Deputy Superintendent Todd Suess recently accepted a position at the Mojave National Preserve. It is uncertain who will fill the ONP Deputy Superintendent position. ONP is also looking to fill the Chief Ranger position.
- The Coast Saver of the Year is Rod Farley, who will be honored at a reception on January 17.
 - NOAA has a draft letter from Makah regarding their Resource Management Plan (RMP), but the representative present was uncertain of the letter's status. Since the final letter will be a public document once it is sent to NOAA, the agency can share the final letter with the Committee once NOAA receives the official version.
 - A notice regarding the 5-year status review will be posted in the Federal Register within the week. Once the notice is posted in the Federal Register, the public comment period will close three months from that date. The final announcement of updates will not be until March 2016.
 - NOAA will send government-to-government participation letters to tribes to formally solicit their engagement in the status review.
 - Since the September LOSSC meeting, there were several conversations and emails to identify what genetic data is currently available to potentially aid sockeye recovery. There have been some discussions about how these genetic samples may be used, however more discussions are needed about what questions to explore with a long history of genetic samples. A member suggested considering a problem and then seeing what genetics monitoring may do to address that issue. Another member suggested that this topic might be raised at a Predation Workgroup meeting and with experts at the Predation Workshop.
 - Pat Crain recently started working with USGS in the Elwha on environmental DNA (EDNA) analysis. EDNA analysis requires taking water samples and filtering them to look for markers of specific species. They did an experiment with this in the Elwha and found interesting hints where Chinook may have gotten to last summer. It may be possible to use this tool in the Ozette area as well (could take water samples from tributaries and see if there are sockeye signatures). Using this tool, you can test for anything you develop a marker for. It is likely that markers developed for the Elwha could be applied to other watersheds. Using this tool, it would be possible to look at the species composition in the Ozette watershed. The Committee discussed some potential issues where genetic monitoring may be useful in the Ozette basin for sockeye recovery efforts, though it was noted that EDNA tests do not differentiate between sockeye and kokanee.
 - During the September 11, 2014 LOSSC meeting a member noted that there were dry/low-flow conditions in the peninsula, and the potential impacts of this on stream hydrology. It was noted that all snow-fed systems on the peninsula currently have very little snow. Unless this changes, it will likely be a very dry summer. The Committee also discussed some questions about how timber harvests in the area could affect local hydrology.

Invasive Plant Presentation

Cathy Lucero, Coordinator of the Clallam County Noxious Weed Control Program, shared a presentation about Clallam County's efforts to control noxious weeds. Her presentation provided an overview of noxious weeds and their negative impacts (both ecologic and economic), federal and state laws in place to address noxious weeds (Federal Noxious Weed Law and the Washington State Noxious Weed Law), and the roles and responsibilities of the Clallam County Weed Board.

The Clallam County Weed Board implements the state law regarding noxious weeds at the local level, and can enforce compliance. The Weed Board exists to maximize use of property and protect natural resources. It has jurisdiction over land owners (private property, not federal property or tribal lands). The Weed Board and Noxious Weed Control Program's primary role is regulatory; however they also: provide education, assist with weed identification, provide weed control advice, loan weed removal tools/equipment, and assist with community projects. They complete this work through agency partnerships, grant funded projects, and by providing training/licensing to safely apply restricted use herbicides. They also certify rock sources and hay. Cathy emphasized the importance of stakeholder engagement, education, and land owner buy-in when trying to control noxious weeds. Some of the challenges to controlling noxious weeds are: landowners may not know they have them on their property, controlling noxious weeds takes long-term commitment, and there is limited funding and experienced staff available to meet the need for controlling noxious weeds. In addition, the County's current policy prohibiting roadside spraying of herbicides inhibits controlling roadside noxious weeds.

Cathy shared information about known noxious weed issues in the area, including: scotch broom, knot weed, canary grass, herb Robert, tansy ragwort, yellow arch angel, everlasting peavine, and English holly. She also provided some suggestions for how to control and eradicate noxious weeds (*see Power Point presentation for additional details*). The Committee discussed different questions and issues related to controlling/reducing the incidence of noxious weeds locally. A member noted that the herb robert outbreak at swan landing is under control, but there is concern about children picking herb robert which would spread the species (there is an almost identical native plant). Putting up a sign would be helpful to educate people about this issue. Pat Crain will see if ONP can do this.

The Committee and Cathy also discussed potential changes to the County's policy on roadside spraying. Cathy recommends the County change its policy to allow for spraying of noxious weeds ("use any means to control noxious weeds"). She drafted a proposal for a policy change, which will be sent to the County Commission in a month. Depending on its response, it may take several more months before there is an ordinance before the Board of Commissioners. Once public hearings are announced, the public can provide written/in-person testimony regarding the change. If desired, LOSSC could provide a letter of support for the new policy. A member noted that there have been concerns about how County staff applied herbicides near roads (concerns about lack of training on how herbicides should be sprayed near water, streams, and wetlands). Cathy clarified that the first step is to change the County's policy, then to introduce an ordinance for how to safely apply herbicides near roads for noxious weed control. When available, information regarding a proposed ordinance will be shared with the Committee.

Review and Updates on Near-Term Priority List (NTPL)

PRA-5,6: Consider predation projects and *RME-5: Investigate each predator type*

Updates on these topics were provided prior to the meeting (see NTPL updates in red). Bonnie Shorin and/or Jeff Fisher's name will be added to replace Rosemary Furfey under "potential partnerships/funding sources."

PRA-7: DIDSON

A member asked if NOAA is investigating additional funding for this project. When updating the NTPL before the next meeting, Triangle will inquire about this. It was noted that there were some technology issues in 2012 and 2013 which impacted capturing underwater footage (in 2012 the hard drive and motherboard crashed, in 2013 another DVR player crashed). Most of the 2013 data was recovered, and the only issue with paired data is the time difference between units. A member noted the importance of moving beyond the initial technology glitches and continuing to collect data. It was noted that the

Salmon Recovery Funding Board (SRFB) funding criteria is changing to fund monitoring projects related to Endangered Species Act (ESA) listed species.

HRA-3: CMER Study

In September 2014, the Committee decided to leave the CMER study on the NTPL to keep tracking it in the future (there currently is no study taking place in the Ozette basin). It was noted that CMER is more related to forest practices than the focus of the SRFB. A member questioned if this should remain on the NTPL. It was suggested that the note “research project; not eligible for NPCLE funding” should be removed.

HRA-8: Weed Assessment and Mapping

Updates on these topics were provided prior to the meeting (see NTPL updates in red). A member shared that the ONP’s plant management team has lost some funding and staff time has been redirected. As a result, the 2018 timeline for the plant team to consider the outlet of Lake Ozette may not be feasible. The member asked if ONP can provide another update regarding this in the future.

HRA-21: Lake Outlet Rehabilitation

A member noted that there are some hydrology issues with the Lake and would like to hear from the Park regarding this.

PEA-6:

See the Public Outreach Subcommittee update below. A member suggested the Subcommittee consider adding an additional bullet under this topic for an invasive weed demonstration/education project.

RME-18: Egg Survival Study

No action at this time.

HRA-20: Hoko-Ozette Road

A member shared that the recent road repair did not last and that the County will do another repair in the near future (the same repair as last time). A member suggested continuing to evaluate the impacts of this on fish (potentially lakeshore spawning). Another member questioned the connectivity between the road repair and sockeye. It was discussed that this action needs to return to the main issue of the road’s impacts on sockeye. It was noted that the original intent of this action was to look at the interaction of the Hoko-Ozette road and the Big River. The Committee suggested changing the description for this near-term action with language from the Master List, combining road relocation (long-term goal) and high-maintenance repair needs (near-term goal) with habitat needs.

HRA-2, HRA-10: Crooked Creek/Road 5800 bridge replacement

The bridge will be replaced at some point in the future.

HRA-10, HRA-20: Dunham Creek and Big River bridge removal/replacement

This project is complete with the exception of the sign. The sign design has been completed and approved and will be installed in the next month or so. Pictures have been taken throughout the process.

Coal Creek Culvert-to-Bridge Replacement

This project was added to the NTPL during the September 11, 2014 LOSSC meeting. The Pacific Coast Salmon Coalition provided a presentation at this meeting regarding this project, which is part of the Washington Coast Restoration Initiative (WCRI) funding proposal. The Committee agreed to add the project to the NTPL under the condition that some questions that remained regarding the project were

addressed at the next LOSSC meeting, and based on that information the action could be removed. At the time, it was presented as part of publicly vetting the project as part of the WCRI (and it was also vetted in other forums). The Committee discussed this project's connection with sockeye recovery and whether or not it should remain on the NTPL. It was noted that the connection between this project and sockeye is sediment. Harry Bell and Carl Chastain were unable to attend the meeting and provide additional information about the project, though Tom Swanson with Green Crow provided some additional background information. There was also discussion regarding the connection between Road Maintenance & Abandonment Program (RMAP) actions/projects and sockeye recovery, as well as the history of how projects from the Master List have been added to the NTPL. The Committee agreed to leave this project on the NTPL until the next LOSSC meeting, when the Committee will review and discuss which projects to keep on the NTPL.

In addition to these updates, the Committee discussed the need to re-examine the NTPL to ensure it aligns with the Recovery Plan. The Committee agreed to reassess the NTPL during the next LOSSC meeting and identify what needs to be moved from the master list to the NTPL. A member suggested that rather than expanding the NTPL that the Committee might spend more energy on fewer elements.

Predation Workgroup Update

The Committee discussed updates related to the Predation Workshop:

- The Predation Workgroup had a conference call on 10/10/14 to discuss planning the Predation Workshop (see call summary for more details).
- They suggest that the Predation Workshop should be two days. Initially it was thought that the Workshop would take place in spring or summer, but now it seems more likely that it will take place in the fall (it needs to take place within the 2015 federal fiscal year).
- Workgroup members have begun reaching out to various predation experts to see if they may be interested in participating in the workshop. Those who have expressed interest include: Pat Gearin, Aaron Wirsing, Merav Ben-David (professor at the University of Wyoming), Dave Beauchamp, and Andrea Woodward.
- Mike Haggerty and Pat Crain met with Andrea Woodward to discuss taking Mike's excel spreadsheet model from the Limiting Factors Analysis (LFA) and turning it into a more user-friendly model to enable looking at survival at different life histories.
- NOAA thought there was \$10,000 available for the Workshop; however, there is now only \$5,900 available. NOAA may be able to provide more in-house support for the Workshop. Once the short list of participants is identified, NOAA will see what they can do for covering additional expenses. The Park may also be able to contribute some funds to the Workshop (through year-end money). Approaching the National Park Fund outside of its regular funding cycle regarding this may also be a possibility.
- The Predation Workgroup has received cost estimates from various locations, and is still waiting to hear from Peninsula College regarding catering services.
- The Predation Workgroup will continue to work on planning the Workshop, and will likely have another meeting/call before the next LOSSC meeting.

NCASI Turbidity Study

Harry Bell was unable to attend the meeting and provide an update on the current status of the NCASI turbidity study. This topic will be moved to the next LOSSC meeting agenda.

Public Outreach Subcommittee Update

The Committee discussed the recent activities of the Public Outreach Subcommittee:

- The Public Outreach Subcommittee had a call on 11/19/14 (see call summary for more details).

- The fall salmon viewing event was very successful. There were eight displays and Joe Hinton provided a demonstration at Umbrella Creek. There was better attendance than the previous year, and multiple avenues were used for public awareness, including Facebook. Committee members should provide any feedback regarding the event to Claire Turpel, Bonnie Shorin, or Roy Morris.
- A member suggested the Public Outreach Subcommittee consider looking into an invasive weed demonstration project, potentially as part of the SRFB sponsored land acquisition project, co-managed with the land trust and the Makah. The Committee is supportive of looking into this idea. Ed Bowen will send information to Bonnie Shorin regarding this.

Funding Sources Update

- Bonnie Shorin plans to attend a Floodplains by Design workshop in February and will provide an update regarding potential Floodplains by Design funding at the next LOSSC meeting.
- The National Park Service will have some competitive funding available beginning in fiscal year 2018 (NRPP funding). Proposals for this funding source must be submitted by October 15, 2015. Restoration, monitoring, and data gathering projects are all eligible. Funding requests can be up to \$150,000 over a three-year period. This is a nationally competitive process, but projects related to endangered species typically rank high for receiving funding.
- SRFB round sixteen is now open for project applications through WRIA 20. The SRFB deadline for applications is not until August 14, 2015. However, in order for the lead entity to process the applications, they must be submitted by March 1, 2015 for this round of SRFB funding.
- The Committee discussed the Washington Coast Restoration Initiative funding proposal (WCRI) funding proposal. The WCRI funding proposal is a \$15 million proposal to the state legislature for funding for a suite of restoration projects in watersheds that drain into the Pacific (funding would come from the capital budget). There are two projects included in the proposal within the Ozette basin, including 1) Coal Creek Project (vetted through the North Pacific Coast Lead Entity and proposed by the Pacific Coast Salmon Coalition); and 2) Lake Ozette Watershed Restoration (related to invasive weed mapping, identification, and control, and proposed by the Makah Tribe). If funded, funds will go through WDFW and will be paid in the form of contracts to project sponsors.

There was some discussion about how the Lake Ozette Watershed Restoration project will be publicly vetted. Some questions were also raised about how the project will be implemented in the community. A member suggested that Clallam County should be a co-sponsor for this project along with the Makah Tribe. The roles of the Tribe and the County for implementing this project were discussed. Makah is the project sponsor and Clallam County is the technical support. It's uncertain if the funding request (\$195,000) includes co-sponsorship costs.

Cathy Lucero agreed to speak with Makah about what support from the County they may need for this project. The Committee agreed that this discussion served as an initial phase of public vetting for this aspect of the WCRI legislative proposal package, and also requested more information about this project at the next LOSSC meeting.

Proposed Agenda Topics for Next Meeting (March)

- Update on the NCASI turbidity study
- Overhaul of NTPL
- Consider projects to apply for NPS (NRPP) funding
- Review Makah's proposal for WCRI (Lake Ozette Watershed Restoration project)

Attachment 1: Meeting Participants

	Name	Affiliation	Telephone	Email
1	Miles Batchelder	Washington Coast Sustainable Salmon Partnership	360-532-9113	milesb@wcssp.org
2	Ed Bowen	Ozette Citizen		rockypt@olypen.com
3	Chris Byrnes	WDFW	360-417-1426	Chris.byrnes@dfw.wa.gov
4	Pat Crain	NPS- Olympic National Park	360-565-3075	Patrick_crain@nps.gov
5	Mike Haggerty	Mike Haggerty Consulting	928-0124	
6	Joe Hinton	Makah	360-963-2784	mtchoko@olypen.com
7	Deborah Kucipeck	Clallam County DCD	360-417-2563	dkucipeck@co.clallam.wa.us
8	Mike Libera	Friends of Lake Ozette	360-457-5662	mikelibera@tfon.com
9	Cathy Lucero	Clallam County		
10	John Mahan	Quileute Tribe	360-374-5696	John.mahan@quileutenation.org
11	Roy Morris	Clallam Bay/Sekiu Lions	360-963-2442	able@olypen.com
12	Rich Osborne	UW ONRC/NPCLE	360-374-4560	osborner@uw.edu
13	Bill Peach	Clallam County	360-640-8303	
14	Bonnie Shorin	NMFS	360-753-9578	Bonnie.shorin@noaa.gov
15	Tim Saskowsky	NPS- Olympic National Park		
16	Tom Swanson	Green Crow	425-3325	tom@greencrow.com
17	Angela Tetnowski	Makah Fisheries		Angela.tetnowski@makah.com
18	Claire Turpel	Triangle Associates	206-583-0655	cturpel@triangleassociates.com
19	Megan Johnston	Triangle Associates	206-583-0655	mjohnston@triangleassociates.com

Meeting Summary
Lake Ozette Sockeye Steering Committee
March 19, 2015 // 10:15 am – 3:15 pm
Location: Sekiu Community Center

Meeting Decisions List:

- The Committee accepted the January 15, 2015 meeting summary.
- Individual LOSSC members can submit letters of support to NOAA for the funding request to support the Predation Workshop.
- The Committee agreed to support the Lake Ozette Watershed Restoration Project of the capital budget Washington Coast Restoration Initiative funding proposal if Clallam County is listed as a co-sponsor. Miles Batchelder will confirm Clallam County co-sponsorship for this project and will make changes accordingly to the proposal (and will convey those changes to legislative budget staff.)
- The Committee reviewed the Near-Term Priority List (NTPL) during the meeting and determined changes/additions to the NTPL and Master List (see summary below for details).
- Triangle Associates will update the NTPL and Master List based on the Committee's suggested changes. It will also solicit ideas from Committee members for further changes/additions to these documents.

Introductions and Agenda Review

Claire Turpel, the facilitator from Triangle Associates, welcomed the Lake Ozette Sockeye Steering Committee (LOSSC or “the Committee”), and LOSSC members introduced themselves (*see Attachment I*). Claire reviewed the proposed agenda and no changes were suggested from the Committee.

Meeting Summary Review

The Committee reviewed the draft January 15, 2015 LOSSC meeting summary. There were no edits from Committee members and the Committee accepted the summary as final. A member commented that the January 15, 2015 meeting summary was weak in some areas, but in lieu of making any changes to the summary, they will defer to a personal recording of the meeting.

Updates and Announcements

- Lake Levels: Several members noted that lake levels have been low this year. Committee members expressed various perspectives on rainfall over the past year. Some noted that rain levels seem typical, while others noted that rainfall has been below average compared to previous years at this time.
- Road Maintenance and Abandonment Plan (RMAP) Updates: A Committee member shared that Green Crow expects to have its RMAP projects completed next season. Green Crow will have finished 11 fish barrier removal projects this year (not including Coal Creek), and plans to complete 5-7 more next year.
- Supplementation Program Extension Request: NOAA received a formal request from the Makah Tribe to extend its supplementation program as part of the Resource Management Plan (RMP). A NOAA representative noted that there is a 12-year window to run supplementation as part of the hatchery practice, ending in 2015. At the end of this time period if data shows that the supplementation program did not meet its objectives, a request can be made to continue the program and an extension may be authorized. NOAA will review the Makah Tribe's request and provide a decision.

- The Committee discussed NOAA's process for reviewing this request, which may take some time, and whether or not the public will be able to provide input. Several members shared that they would like to see the Makah Tribe's letter to NOAA. The NOAA representative will confirm if/when this letter may be shared with the Committee. The NOAA representative noted that they would like to engage LOSSC and hear opinions on this issue once NOAA has reviewed the request and background information, though the timeline for this was uncertain at this meeting.
- A Committee member asked if this request will be vetted through the LOSSC. The member noted that if NOAA is not prepared to put this decision before the Committee by the next LOSSC meeting, then they will pursue this issue outside of the Committee through asking for public disclosure and working with congressional representatives.
- Predation Workshop: The Committee discussed updates related to the Predation Workshop.
 - The Predation Workshop will likely take place in the second or third week of September 2015. If the Workshop does not take place within the 2015 federal fiscal year, funding will not be lost.
 - NOAA currently has \$5,900 available for the Workshop; however, more funds are needed. NOAA representatives have re-submitted a proposal to the agency for an additional \$10,100 for the Workshop (proposals less than \$10,000 will not be reviewed). The proposal is being reviewed internally and it is likely the funds will be approved, though the NOAA representatives may not know until June.
 - A member proposed that the LOSSC provide letters of support to NOAA for the additional funding request for the Predation Workshop (proposals are currently being reviewed). Due to the short time frame, LOSSC members were encouraged to submit letters of support as individuals. Ed Bowen will draft and circulate a sample letter for Committee members.
 - Pat Crain submitted a funding request to Olympic National Park (ONP or the Park) for year-end funds to support the Workshop. It's uncertain whether the request will be approved or when decisions will be made. Additional funds from NOAA and ONP will go towards developing a comprehensive report/product from the Workshop.
 - A Committee member also suggested that the Washington Coast Sustainable Salmon Partnership (WCSSP) consider if they could contribute any funding for the Workshop.
 - Andrea Woodward submitted a funding request to the U.S. Geological Survey (USGS) to develop Mike Haggerty's computer model developed for the Limiting Factors Analysis (LFA) into a more user-friendly model, which may be used for the Workshop. It's uncertain if she will receive funding for this. If she does, it's also uncertain if her updated model will be available in time for the Workshop.
 - LOSSC members shared several updates about Predation Workshop expert participants:
 - Greg Rugeroni is interested in participating in the Workshop.
 - Ray Hilburn and Tom Quinn are currently doing work with ONP and both have expertise in sockeye; however, they do not have the time to participate in the Workshop. They suggested that the Predation Workgroup reach out to the Pacific Salmon Commission and ask for Canadian experts who may be interested in participating (particularly those who work on the Fraser sockeye run.)
 - Pat Gearin is also interested in participating in the Workshop (*see notes from January 15, 2015 meeting for list of interested expert participants.*)
 - Several different venues have been proposed for the event:
 - *Olympic Natural Resources Center (ONRC), Forks*: This facility is potentially free (no rental cost) to use and has plenty of room and on-site lodging, but it is a greater distance for panel participants to travel to.

- *Longhouse at Peninsula College, Port Angeles*: The rental cost for the facility is \$500 for two days and catering is available. If the Workshop takes place during the first week of classes, Peninsula College students could potentially participate. Several members noted that the acoustics in the Longhouse are not great.
 - *Carver Meeting Room, Port Angeles Library, Port Angeles*: This facility is free (no rental cost). The room could likely handle the expected size of the Workshop. It is available Mondays and Tuesdays (from noon to six on Tuesday) in September. Several members noted that this space would work well.
 - Committee members should send any comments regarding the proposed Workshop venues to Claire Turpel.
 - The Predation Workgroup will continue to plan the Workshop, and will likely have another call in the next month. The Predation Workshop will share a tentative agenda for the Workshop with the Committee for their review and comment before the next LOSSC meeting.
- Funding Sources: There were no funding resources updates from the Committee members.
- NCASI Turbidity Study: A Committee member provided an update on the status of the NCASI turbidity study. A group of individuals/entities are looking into the potential of including a study location in the Ozette basin within a larger study looking at the relationship between Coho salmon and turbidity. Initial turbidity data was collected from a number of streams to help identify the streams that could be included in the study. At this point, funding must be secured for this study and it's uncertain if the study will go forward (and if it does, which study sites will be selected). The Committee is interested in staying informed about this study if there are one or more study sites in the Ozette basin.
- Washington Department of Natural Resources (DNR) Boot Bay Project: A Committee member shared that DNR recently released its forecast for the next two years of operations in the Ozette area, which includes a thinning operation at Boot Bay (this is an experimental forest track of land). The member has asked DNR to consider including this project in its monitoring program in order to identify why the Boot Bay system seems to be working so well. A map of this area will be circulated.
- DIDSON Report: The final report for the DIDSON project was submitted to the State of Washington. A Committee member shared that they thought the report was weak on what it found (particularly the river weir component), and encouraged LOSSC to consider a potential action on this in the future.
- Local Volunteers: A Committee member encouraged agency partners to consider local volunteers as a part of research taking place in the Ozette area. Volunteers can provide expertise and assistance with different environmental projects, and could be included in future grant applications.

NOAA's 5-Year Status Review Update

A NOAA representative shared the 5-Year Status Review Federal Register notice with the Committee, which included expected timelines for gathering data, receiving public comments, and making determinations on whether the status of a listed species needs to be modified. Mike Haggerty's report on the number of spawners and returns has been submitted to the Northwest Fisheries Science Center, which will be compared to the last update. There is also a habitat component to the review process (the status of the species is a derivative of population numbers and habitat status). To inform the habitat component of the 5-year status review the NOAA representative will re-format the Master List based on actions that have and have not been completed in the past five years and their influence on the listing factors. This will be shared with the LOSSC at the next meeting for its review and comment.

Comments regarding the 5-Year Status Review Update

- The NOAA representative confirmed that critical habitat designation is not a component of the review process.
- The Federal Register notice is the venue by which NOAA solicits public comments. Any comments from the public are welcome (including those regarding the strengths/weaknesses of reports submitted to the Northwest Fisheries Science Center).
 - NOAA encourages anyone with specific metrics on habitat elements (such as road miles closed) relevant to limiting factors to share them as part of this review process. A member noted that a number of habitat projects may have been completed, and asked if it may be possible to access information on completed RMAP projects (RMAP projects and locations are reported to DNR on an annual basis). Harry Bell will see if Green Crow can provide any information related to this. Rich Osborne will check with the DNR Administrator in Forks about accessing this data.
 - The Committee also discussed that viability and hatchery plans could be involved as well in the 5-year status review.

Review and Updates to Near-Term Priority List (NTPL)

The Committee reviewed the current NTPL and Master List and discussed updates. The Committee's discussion regarding these updates is outlined below.

PRA-5,6: Consider predation projects and RME-5: Investigate each predator type

Updates on PRA-5, 6 were provided prior to the meeting. Committee members suggested combining PRA-5, 6 and RME-5 on the NTPL. The Committee expects that the Predation Workshop will inform future actions related to RME-5.

PRA-7: DIDSON

The Committee discussed different issues related to replacing the weir with DIDSON technology. A member expressed interest in collecting additional years of DIDSON data to make sure it provides at least the same level and quality of information as the weir, before entirely removing the weir. There were some questions about when or if the DIDSON would replace the weir.

A member shared that ONP has experience with DIDSON on the Elwha. The DIDSON system is helping to provide excellent escapement data; however, the cost of operating the system and analyzing the data is high (approximately \$150,000/year). There is some double-testing occurring to catch observer error, which adds extra costs, though other programs around the West could inform how to do this work cost-efficiently. In order to continue using the DIDSON in the Ozette, additional financial support will be necessary. Another member noted that having the right equipment would facilitate their ability to compile data. The Committee discussed issues related to the rigor of data collected through the DIDSON system and the need to have confidence in that data before removing the weir. Pat Crain will share the Elwha DIDSON protocol report (to meet statistical rigor) to compare it with the Makah DIDSON program. Several members also noted that the weir data is not perfect either. Based on their discussion, the Committee agreed to the following:

- The DIDSON project will remain on the NTPL, and a timeline/target date will be added for when the weir will be modified.
- An agenda item for the next meeting will be to define the timeline and next steps for this project.
- Ed Bowen will contact the Recreation and Conservation Office to receive more information about the DIDSON evaluation.
- Triangle will forward the progress and final reports from the Makah DIDSON project to the Committee.

HRA-3: CMER Study

No CMER study is currently taking place or planned in the Ozette basin. A Committee member suggested removing this from the NTPL and adding it to “standing updates” for each meeting.

A member shared that CMER may potentially implement a study looking at the status and trends of monitoring forest and fish lands across Washington State. An initial white paper study regarding this will be available in July and a pilot study will be completed at the end of 2015. These initial efforts could potentially be followed by a full evaluation of riparian forests across Western Washington. If implemented, a full study that includes the Ozette basin could inform various projects on the Master List. The Committee expressed interest in learning more about this study as it progresses.

HRA-8: Weed Assessment and Mapping

The Committee discussed that invasive weed mapping and treatment is necessary and needs to be an ongoing effort. Several members shared that there are various efforts taking place to map and treat invasive weeds, but that information (including GPS coordinates) is not compiled in a common place. Based on their discussion, the Committee agreed to the following:

- Modify HRA-8 to indicate the ongoing need to map and treat noxious weeds.
- The Washington Coast Restoration Initiative (WCRI) Lake Ozette Watershed Restoration Project proposed by the Makah Tribe and Clallam County should be added to the NTPL, as it addresses mapping and treating noxious weeds (although a “reduction strategy” is not captured in the current proposal for that project). Note that this project addresses HRA-8 and PEA-4, 6.
- Potentially add a near-term action for ONRC to compile data about where invasive weeds have been treated around the Olympic Peninsula into a comprehensive map.

HRA-21: Lake Outlet Rehabilitation

The Committee agreed to keep this action on the NTPL. A member also noted that funding has been received to remove reed canary grass at the lake outlet.

PEA-6:

The Committee discussed that education and outreach is an ongoing effort, and that since the flyer/brochure has been developed, it should be moved to the “completed projects list.” The Committee also discussed that work related to engaging the local community in invasive weed management addresses PEA-4, 6, 11 and HRA-8 (noted above under HRA-8). Based on their discussion, the Committee agreed to the following:

- Keep this action on the NTPL.
- Move the “flyer” to the “completed projects list.”
- In the last bullet of the NTPL project write-up regarding invasive weeds, include language about engaging residents and stakeholders. Ed Bowen offered to provide sample language for this.

RME-18: Egg Survival Study

This study will provide necessary supporting evidence that survival is a problem on the beaches, which will help inform what specific beach rehabilitation is needed. Pat Crain is looking for funding to support this study. The Committee discussed the importance of this project and agreed to leave this action on the NTPL. The Committee also discussed coupling the study proposal with an action to investigate whether or not specific activities will help improve conditions on the beaches. Based on their discussion, the Committee agreed to the following:

- Leave RME-18 action on the NTPL. Add a bullet to “try to increase the quantity and quality of beach spawning habitat.”

- Also, possibly revise the project proposal to include an action to assess whether or not specific activities may help improve conditions on the beaches.
- RME-17 will also be listed as a reference under “related task ID” on the NTPL.
- Add Aaron Brooks’ thesis “Dissolved Oxygen in Lake Ozette Spawning Grounds” to the completed projects list, since it is a component of RME-18.
- Pat Crain will provide an updated study abstract to include on the NTPL.

HRA-20: Hoko-Ozette Road

The Committee agreed to remove this action from the NTPL, as it is a long-term goal, but not a near-term goal. Comments captured in the NTPL regarding this action will be moved to the Master List.

HRA-2, HRA-10: Crooked Creek/Road 5800 bridge replacement

This project has been completed. The culvert and fill have been removed and replaced with a bridge. The Committee agreed to remove this from the NTPL and add it to the completed projects list.

HRA-10, HRA-20: Dunham Creek and Big River bridge removal/replacement

These projects have been completed. The old bridge has been replaced for the Dunham Creek project. The Committee agreed to remove this from the NTPL and add it to the completed projects list.

Coal Creek Culvert-to-Bridge Replacement

This project was added to the NTPL during the September 11, 2014 LOSSC meeting. The Pacific Coast Salmon Coalition provided a presentation at that meeting regarding this project, which is part of the Washington Coast Restoration Initiative (WCRI) funding proposal. The Committee agreed to add the project to the NTPL under the condition that some questions that remained regarding the project were addressed at the next LOSSC meeting, and based on that information the action could be removed. This project was discussed briefly again at the January 15, 2015 LOSSC meeting, and it remained on the NTPL. Harry Bell provided some additional information about this project and the need for the culvert replacement. The Committee agreed to keep this project on the NTPL at this time.

Admin Team Proposal Discussion

The Admin Team prepared a draft “straw proposal” of actions to add to the NTPL from the Master List. Admin Team members clarified that the proposal was a combined effort of different Committee members and Triangle to help provide a starting point for the discussion about revising the NTPL. This can be considered at the next LOSSC meeting to continue updating the NTPL.

Additional Ideas for the NTPL

Committee members provided the following suggestions for organizing and updating the NTPL.

- Develop “completed” and “ongoing” project lists. Place non-specific, ongoing activities into a separate “ongoing projects list” (such as: planning vegetation, work related to forest practices, regulation requirements, etc.). Discrete projects should remain on the NTPL.
- Color-code the Master List to differentiate actions that require perpetual attention vs. one-time, discrete actions. Bonnie Shorin will work on a draft of this.
- Possibly add the ongoing projects list (long-term projects) as an approved sub-section of the Master List.
- Compile a list of projects similar to those outlined in the Master List that have been completed by different entities (such as the Makah Tribe, Washington Department of Fish and Wildlife, Clallam County, etc.).

Lake Ozette Watershed Restoration Project

The Lake Ozette Watershed Restoration Project, a project included in the WCRI funding proposal, was discussed by the Committee at the January 15, 2015 LOSSC meeting. At the time, it was sponsored only by the Makah Tribe. The Committee suggested that Clallam County co-sponsor this project. Since then Cathy Lucero (Clallam County) and Rob McCoy (Makah Tribe) have communicated about potential scoping for this project and an additional \$75,000 has been added to the funding request for this project in order for the County to take a more active role in the project. Green Crow is also on the list of supporters for this project. The WCRI funding proposal list has been submitted to Washington State legislative staff to include in the House budget (to be released March 23), but the list could still be adjusted if needed.

A LOSSC member presented the following proposals related to this project:

- The LOSSC supports the Lake Ozette Watershed Restoration Project of the capital budget WCRI proposal if:
 1. Clallam County is listed as a co-sponsor.
 - The Committee agreed with this proposal. There were no Clallam County representatives at the meeting to confirm if the County may be listed as a “co-sponsor” for this project. A member noted that a Makah Tribe representative has indicated that the Tribe is fine with including Clallam County as a co-sponsor for this project. Miles Batchelder will confirm County co-sponsorship and will convey the change to legislative staff.
 2. Project scoping has produced criteria to be met, that addresses LOSSC recovery goals and processes.
 - The Committee member offered to hold this proposal until (if/when) the contract is awarded.

Public Outreach Subcommittee Update

The Committee discussed the recent activities of the Public Outreach Subcommittee. See the 3/3/15 Subcommittee call summary for more details.

- The Subcommittee is considering opportunities to engage a broader audience in the summer. A member suggested looking into ways to engage Park visitors by posting a sign at the kiosk or making sure the Lake Ozette sockeye brochure is available.
- A member identified a need of posting a sign/bulletin at the kiosk at Swan Bay about herb robert (with a picture and description of the weed) in order to inform the public about this plant and teach people to pull it and throw it in a trash bag if they see it to help keep it from spreading. The Subcommittee will discuss this more during its next conference call.
- A member shared that one way to engage the public is to provide the LOSSC brochure when communicating with property owners about invasive weed removal in the Ozette watershed.

Other Updates/Next Steps

- Triangle will work with the Admin Team to schedule the next meeting date.
- The Committee expressed interest in learning more about ONP’s Wilderness Stewardship Plan, and would like to have this as an agenda item for the September meeting. An initial public review of the Plan has taken place and a second public review will likely take place in the fall.
- WCCSP will continue to request funds to support LOSSC facilitation (and will do so during its budgeting process with RCO in May). A member suggested advocating for additional funds for more capacity.

Proposed Agenda Topics for Next Meeting (Late-May or June)

- RMP extension update
- Predation Workshop plans and draft agenda
- Review and discuss revised Master List and NTPL
- Update and discussion on DIDSON with run size estimates from Mike Haggerty
- Beach spawning supplementation proposal

Attachment 1: Meeting Participants

	Name	Affiliation	Telephone	Email
1	Miles Batchelder	Washington Coast Sustainable Salmon Partnership	360-532-9113	milesb@wcssp.org
2	Harry Bell	Green Crow	417-3643	harry@greencrow.com
3	Ed Bowen	Ozette Citizen		rockypt@olypen.com
4	Pat Crain	Olympic National Park	360-565-3075	Patrick_crain@nps.gov
5	Jeff Fisher	NOAA NMFS	360-534-9342	Jeff.fisher@noaa.gov
6	John Mahan	Quileute Tribe	360-374-5696	John.mahan@quileutenation.org
7	Roy Morris	Clallam Bay/Sekiu Lions	360-963-2442	able@olypen.com
8	Joseph Murray	Merrill and Ring	460-3733	jmurray@merrillring.com
9	Rich Osborne	NPCLE/WCSSP	360-374-4560	osborner@uw.edu
10	Bonnie Shorin	NOAA NMFS	360-753-9578	Bonnie.shorin@noaa.gov
11	Claire Turpel	Triangle Associates	206-583-0655	cturpel@triangleassociates.com
12	Megan Johnston	Triangle Associates	206-583-0655	mjohnston@triangleassociates.com

Meeting Summary
Lake Ozette Sockeye Steering Committee
June 9, 2015 // 10:15 am – 3:15 pm
Location: Sekiu Community Center

Meeting Decisions and Actions List

- The Committee accepted the March 19, 2015 LOSSC meeting summary with edits (see summary below for details).
- Committee members will send any ideas or talking points for the July 11 Lake Ozette sockeye outreach event to Danielle Archuleta at danielle_archuleta@nps.gov.
- Committee members will share comments or suggestions about facilitation “add-ons,” and general feedback about LOSSC, to Bonnie Shorin, Miles Batchelder, and Megan Johnston. All comments will be compiled and revisited at the end of 2015.
- Committee members will send any comments or suggestions regarding the initial draft Predation Workshop agenda to Bonnie Shorin, and suggestions for Predation Workshop participants to Pat Crain. Bonnie Shorin will share an updated agenda with the Predation Workgroup and LOSSC for final review.
- Pat Crain will work with Danielle Archuleta and Adam Mehlhorn on an herb robert bulletin for Swan Bay Landing.
- Pat Crain will work with Stephanie Martin on developing an informational pamphlet on work taking place at the outlet of Lake Ozette that may be shared with the public at the Ozette Ranger Station.
- Committee members will provide feedback on the information included in the recovery status update table to Bonnie Shorin by July 1. The updated table will be submitted to the Northwest Fisheries Science Center as part of the 5-year status review on July 7.
- The Committee made changes/additions to the Near-Term Priority List (NTPL) (see summary below for details).
- Triangle Associates will update the NTPL based on the Committee’s suggested changes.

Introductions and Agenda Review

Claire Chase, the facilitator from Triangle Associates, welcomed the Lake Ozette Sockeye Steering Committee (LOSSC or “the Committee”), and LOSSC members introduced themselves (*see Attachment I*). Claire reviewed the proposed agenda and suggested moving the Public Outreach Subcommittee update to an earlier time on the agenda, as some members who wished to participate in that discussion needed to leave the meeting early. The Committee agreed with that suggested change, and no further changes/additions were suggested.

Meeting Summary Review

The Committee reviewed the draft March 19, 2015 LOSSC meeting summary. A member suggested a change to the meeting summary:

- The first sentence of the second bullet under the Public Outreach Subcommittee section (page 7) should read “A member identified a need of posting a sign/bulletin at the kiosk at Swan Bay about herb robert (with a picture and description of the weed) in order to inform the public about this plant and teach people to pull it and throw it in a trash bag if they see it to help keep it from spreading” (underlining indicates new language).

The Committee agreed to accept the meeting summary with the proposed changes.

Updates and Announcements

- Lake level: A member shared that the lake is back to a normal level and that areas in the lake that have had sedimentation issues in recent years seem stabilized.
- Smolt out-migration: A member shared that Makah Fisheries recently removed their smolt trap. They had better success with smolt monitoring and captured more smolts this year than in recent years (data on this is not yet available).
- NCASI turbidity study: A member shared an update on the local sites for the NCASI turbidity study. This study looks at measuring the effects of turbidity on the survival and health of coho. Right now, they are looking at using Deep Creek/Sadie Creek areas as study sites. They hope to start collecting data in the fall.
- CMER Study: A member noted that CMER has started a literature review to evaluate extensive riparian monitoring (due to be completed by the end of June). The results will then go to the Timber, Fish, and Wildlife Policy Committee to determine the level of precision and tools needed to complete a pilot study to gain a better understanding of riparian areas and how to best to manage them. Another member shared that the Wetland Scientific Advisory Committee (a subcommittee of CMER), is convening a group of scientists to develop a study to evaluate what occurs when trees are harvested in a forested wetland.
- LOSSC Facilitation: A representative from the Washington Coast Sustainable Salmon Partnership (WCSSP) shared that the Salmon Recovery Funding Board (SRFB) approved the regional budget for 2015-2017, which includes \$10,000 per year for LOSSC facilitation, two meetings per year (assuming that NOAA will also continue to support half of the facilitation costs). The same terms and conditions apply. The Committee discussed that WCCSP could provide a presentation to the SRFB on the work LOSSC has completed in order to ask for additional funds to support the group in the future. Committee members agreed to share comments or suggestions about facilitation “add-ons,” and general feedback about the group, to Bonnie Shorin, Miles Batchelder, and Megan Johnston. All comments will be compiled and revisited at the end of 2015.
- Predation Workshop Funding: A NOAA representative shared that they have made a request for \$10,000 for the Predation Workshop, and will hear about this at the end of June. An Olympic National Park (ONP) representative also made a request to ONP for \$10,000 in year-end funds to support the Predation Workshop, though the outcome of that request was yet unknown.

Public Outreach Subcommittee Update

The Committee discussed updates from the Public Outreach Subcommittee:

- The Public Outreach Subcommittee is planning a Lake Ozette sockeye public outreach event at the Ozette Ranger Station on July 11, 2015. Previously, the Subcommittee has hosted sockeye viewing events in November, but the number of attendees has been low. They decided to host a summer event to see if they can engage a greater number of people.
- The Committee suggested the following topics and/or tools for the event: provide information on predation issues (use schooling pike minnow near the bridge as an example); share information, modeling, and monitoring currently being conducted and tools used for that work (such as the weir, sonar unit, screw trap, etc.); and show the DIDSON video.
- Danielle Archuleta with ONP will be working at the Park’s booth during the event. Committee members were encouraged to send any ideas or talking points for public outreach for the July 11 event to Danielle at danielle_archuleta@nps.gov.
- A member suggested developing an informational pamphlet on work taking place at the outlet of Lake Ozette that may be shared with the public at the Ozette Ranger Station (such as explaining the weir, sonar unit, etc.). Pat Crain will work with Stephanie Martin on this.

Predation Workshop

The Committee discussed the upcoming Predation Workshop:

- A subset of the Predation Work Group has been working on plans for the Predation Workshop.
- The Predation Workshop will take place at Peninsula College on either October 22-23 or 29-30 (date to be determined by Workshop participants' availability). The room reserved for the event is in the student union building and seats approximately 100 people, and additional rooms are available for breakout sessions.
- The Committee reviewed and discussed potential Workshop participants. It was noted that the list of participants who have been invited thus far only include those who are "outside" LOSSC, and that there may also be LOSSC members participating in the Workshop.
 - LOSSC members suggested contacting the following additional people/organizations about participating in the Workshop: Kurt Fresh, NOAA; U.S. Fish and Wildlife Service.
 - Any additional ideas for Workshop participants should be sent to Pat Crain.

Two LOSSC members have developed an initial draft Workshop agenda. The Committee reviewed and discussed the draft agenda and members shared the following suggestions:

- Intended Audience:
 - Add in a bullet for "interested public."
 - Landowners would likely also be involved in the Workshop.
- Objectives:
 - Incorporate key predation questions from the Recovery Plan into the objectives (questions that need answers in order to implement recovery actions). Make questions focused and precise.
 - Tie the agenda to hypotheses related to predation, strategies, and actions (ex: strategies to overcome predation issues affecting tributary and beach spawning fish). Identify or prioritize the most important questions related to potential actions and include them in the objectives.
- Agenda:
 - Add time to discuss management issues in a multi-jurisdictional setting.
 - Include a brief overview/introduction of ONP's perspective on management limitations in wilderness and non-wilderness areas.
 - Consider how to use the Workshop to build from work conducted by Pat Gearin.
 - Use the Workshop to help drive what predation-related actions in the Recovery Plan to focus on, and to better understand seal predation.
 - Focus discussions to help identify actions that can be taken on the ground, as opposed to ongoing studies (however, it was noted that some actions will require further data collection to move forward).
 - Share Recovery Plan actions related to predation with participants and ask them if they think they will work, or if there is any data to help support those actions.
 - It was noted that the agenda will be supplemented with a detailed background paper with information on local predation issues, predation-related Recovery Plan Actions, and expectations for Lake Ozette sockeye recovery
- Next Steps:
 - LOSSC feedback will be incorporated into a revised Workshop agenda, with the goal sending an updated agenda to potential Workshop participants/presenters by mid-July.

- Committee members should send any comments or suggestions regarding the initial draft Predation Workshop agenda to Bonnie Shorin as soon as possible. Bonnie will share an updated agenda with the Predation Workgroup and LOSSC for final review.
- The Predation Workgroup will continue to meet and plan this event. Anyone interested in participating in that group should let Claire Chase know.

Swan Bay Landing Sign

The Committee discussed the need and process for placing a sign at Swan Bay Landing notifying the public about herb robert. During the March 19, 2015 LOSSC meeting a member identified a need for a sign at Swan Bay Landing about herb robert that identifies what it looks like and how to properly eradicate it in order to keep it from spreading in the area. The Public Outreach Subcommittee has since discussed this and suggested posting a sign about this at the Ozette Ranger Station. At the meeting, a member suggested that LOSSC encourage ONP to rotate the signs at the Swan Bay kiosk and to add a sign regarding herb robert. It was noted that signs need to be approved through ONP administration. Pat Crain shared that he drafted an herb robert bulletin and he will work with Danielle Archuleta and Adam Mehlhorn on appropriate language for that sign and ways to move that forward. A member shared that currently herb robert is under control at Swan Bay (several citizens are actively involved with this).

Resource Management Plan Update

The Committee discussed the status of the Makah Tribe Resource Management Plan (RMP) update. A NOAA representative provided an overview of the initial development, review, and approval of the RMP. At the time of its approval, it was determined that the Makah Hatchery would not jeopardize Lake Ozette sockeye, and that the RMP determination would be revisited 10-12 years later. The RMP noted that supplementation could continue in Umbrella Creek under certain conditions. In March 2015 the Makah Tribe submitted a proposal to continue supplementation in Umbrella Creek as several brood cycles were not doing well. NOAA evaluated their proposal and produced a new Biological Opinion (BiOp), and based on that have granted an extension for the supplementation program. NOAA would like to see the program continue until all brood cycle lines are self-sustaining (after which, the program will terminate). There are terms and conditions in the BiOp for continuing supplementation, including monitoring checkpoints and annual reporting requirements. The data show that stock status in tributaries is doing well, but the beach spawning population is not doing as well, and that it may be time to consider supplementing beaches.

The Committee discussed questions and concerns related to the RMP extension. A member shared their support for the hatchery program, but expressed concerns about the lack of transparency and openness with the public around the RMP extension. It was noted that the letter to NOAA from the Makah Tribe regarding the RMP extension (dated March 17, 2015) has been formally received, is a public record, and can be shared. A member requested NOAA also share the attachment referenced in that letter.

NOAA's 5-Year Status Update

Bonnie Shorin provided an update on NOAA's 5-year status update process for Lake Ozette sockeye. She noted that the status review includes two main components: 1) viability (abundance, distribution, etc.); and 2) habitat status. For viability aspects of the status update, work completed by the Makah Tribe and Mike Haggerty has been presented to the Northwest Fisheries Science Center. Additionally, NOAA needs to compile information about the status of Lake Ozette sockeye habitat. To assist with this, Bonnie Shorin has reorganized the Master List to help compile information about the status of recovery actions. The new recovery status table now includes the following information for each action: recovery

plan element, recovery plan stressor, listing factor relevance, limiting factor addressed, implementation key partner(s) and status, desired activity outcome, trend summary, and challenges.

NOAA asked for the Committee's feedback on the information included in the recovery status update table. Any comments, suggestions, and additions to the information presented in the table should be shared with Bonnie Shorin by July 1. The updated table will be submitted to the Northwest Fisheries Science Center as part of the 5-year status review on July 7. It was clarified that this document will be a NOAA product with input from the Committee. There will be an open public comment period once the status update is posted in the Federal Register (January 2016). LOSSC members suggested making the following changes to the table:

- Order the actions by relevance of key listing factors.
- Change the word "obstacles" to "challenges."

Bonnie will incorporate these updates into the table and will share the table with the Committee soon after the meeting for additional comments and feedback by July 1.

Review and Updates to Near-Term Priority List (NTPL)

The Committee reviewed the current NTPL and Master List and discussed updates to those documents. The Committee's discussion is summarized below.

PRA-5,6: Consider predation projects and RME-5: Investigate each predator type

A member shared that Andrea Woodward from the U.S. Geological Survey has received funding to pursue development of the life history model. It was uncertain if the model will be available for the October Predation Workshop (however, she may be able to give an overview of the model at that time). Once the model is developed she can do a trial with LOSSC. The Makah Tribe's proposal for an otter population assessment was not successful, and they may pursue another avenue for this.

PRA-7: DIDSON

The DIDSON system is currently operating, and the Makah Tribe hopes to have data by the end of June. Sonar will also be continued in the short term. The Committee discussed some funding issues related to continuing to operate DIDSON. A member noted that it would be helpful for Committee members to express support for continued funding through the Pacific Coast Salmon Recovery Fund (PAC SRF) for Lake Ozette sockeye recovery activities, and increased allocations of these funds going towards ESA listed stocks. It was also suggested that Committee members support NOAA and Regional Office in their asks for PAC SRF allocations in their budgets. Another member suggested looking into the NOAA Coastal Habitat program to see if PAC SRF funds may be directed towards Lake Ozette sockeye recovery actions through that program.

HRA-8: Ongoing Basin-Wide Invasive Weed Assessment and Mapping

Previously, this project was selected to receive three years of funding beginning in 2018; however, ONP recently learned that all projects to begin in 2018 need to re-compete for funding. ONP will resubmit this project for funding in the fall 2015. ONP still has an exotic plant management team and the Chief Botanist position has been filled.

A member shared that there is a proposal in to the Lead Entity for WRIA 20 from the Makah Tribe for Big River and Umbrella Creek riparian restoration (\$250,000 proposal). This project includes an inventory and invasive species treatment on Big River and Umbrella Creek. A member encouraged revising that proposal to include the Clallam County Noxious Weed Board as a joint partner, to echo the

decision made for the Washington Coast Restoration Initiative project that included both the Makah Tribe and Clallam County as project co-sponsors.

HRA-8 Compile and Map Data on Invasive Weed Treatment Around the Olympic Peninsula

This action was added to the NTPL during the March 19, 2015 meeting. There were no new updates.

HRA-8, PEA-4, 6, 11: Lake Ozette Watershed Restoration Project

This project was included in the Washington Coast Restoration Initiative funding proposal but was not included in either the Washington State Senate or House budgets, meaning that it will likely not be funded in this biennium.. A member suggested that the Committee support the Lead Entity WRIA 20 proposal (outlined above under HRA-8) if that project is able to accomplish the same goal as the Lake Ozette Watershed Restoration Project, and if the Clallam County Noxious Weed Board is a joint partner in the project. They suggested asking Clallam County to review the proposal and see if they may be able to assist with this, and seeing if the Makah Tribe may be amenable to this. If the project is revised to include the County, the Committee asked to be informed of that change and then could make a decision via email to support the project. The Lead Entity will be ranking projects in July, so the changes and offline decision would need to happen quickly.

HRA-21: Lake Outlet Rehabilitation

Previously, this project was selected to receive funding to remove reed canary grass at the lake outlet; however, ONP recently learned it will need to resubmit this project for funding.

PEA 6:

The Public Outreach Subcommittee is planning a Lake Ozette sockeye public outreach event at the Ozette Ranger Station on July 11 (see above for details). A member suggested ONP take on the “placeholder for additional language” noted for this action in the NTPL. A note will be added to the status update for this action that Pat Crain has drafted a bulletin to notify park visitors of herb robert and he will work with Danielle Archuleta and Adam Mehlhorn to help move that forward.

RME-17, 18: Egg Survival Study

The Committee discussed updates to this action, and suggested adding the last two bullets under “RME-17” in the Admin Team proposal (March 4, 2015) to the NTPL description, and also agreed that this project needs to be further developed based on LOSSC considerations (this point will be added to the “status” section of the NTPL). A small group/Habitat Subcommittee (Pat Crain, Mike Haggerty, Joe Hinton, and John Mahon) agreed to meet to continue working on this. Claire Chase will send a reminder about this, and if anyone is interested in joining the group they should contact Claire.

Coal Creek Culvert-to-Bridge Replacement

This project was submitted as part of the Washington Coast Restoration Initiative funding proposal, and at this time it is not in either the Washington State Senate or House budgets. The Committee discussed the status of this project and agreed to leave this project on the NTPL at this time. Harry Bell will share more information about this project from Carl Chastain at the next meeting.

The Committee discussed the Admin Team proposal of projects to potentially add to the NTPL:

HRA-14

The project involves large woody debris (LWD) accumulations in Umbrella Creek. After discussing some different aspects of this project (particularly the need for outreach to landowners who may be impacted), the Committee agreed to move this project to the NTPL with the following note from the

Master List: “restoration actions that directly affect the bordering private property to this section of Umbrella Creek, are not supported or authorized by the private landowner, who has a firm 'No Trespassing' request on record.” It was noted that there is a new owner of this property near Umbrella Creek and several members have reached out to that landowner about LOSSC.

HRA-6:

This project involves reconnecting floodplains in Priority I-III Subbasins by reintroducing LWD to tributaries. A member shared that activities for this project could potentially be funded through Floodplains by Design (a new program of the Department of Ecology and The Nature Conservancy). The Committee discussed potentially inviting a Department of Ecology representative to attend a LOSSC meeting and share more about the program and potential funding opportunities. Due to disagreement about seeking funding through this program and previous actions by the Department of Ecology in the Ozette area, the Committee agreed to continue discussing this project in the future.

RME-27

A member noted that heavy nitrogen will not work for this project and needs to be removed from the project description.

Funding Source Updates

- The Washington Coast Restoration Initiative funding proposal will be an annual process.
- The Makah Tribe riparian restoration project is eligible for funding through the SRFB.
- Three grant programs administered through the Recreation and Conservation Office will be made available in spring 2016: Aquatic Lands Enhancement Account, Land and Water Conservation Fund, and Washington Wildlife and Recreation Program. Eligibility requirements are still to be determined.
- There is a potential new funding source available to assist federal land owners with improving fish passage on federal lands. ONP will work with the Makah Tribe and Quileute Tribe to see if there may be specific projects to propose for these funds.
- North Pacific Coast Marine Resources Committee has a small grant program and the deadline for proposal is July 11. This is a good source for producing outreach materials.

Other Updates/Next Steps

- Triangle will work with the Admin Team to schedule the next meeting date, likely in September.
- A member suggested that this would be good year to do a topographic profile of the river, outlet of the lake, and area of the river below Coal Creek. The ONP team will be doing water quality profiles in August, so it would be helpful to coordinate those activities.
- A member noted that there likely will be fire danger this year, and camp fires are banned in the lake area. There are fire pumps on the lake now, but only volunteers to manage them.

Proposed Agenda Topics for Next Meeting (September)

- Update on final run size estimates from Mike Haggerty.
- Presentation on ONP Wilderness Stewardship Plan.
- Presentation on Floodplains by Design.
- Walk through life history model being developed by Andrea Woodward.

Attachment 1: Meeting Participants

	Name	Affiliation	Telephone	Email
1	Danielle Archuleta	Olympic National Park	303-304-0005	Danielle_archuleta@nps.gov
2	Miles Batchelder	Washington Coast Sustainable Salmon Partnership	360-532-9113	milesb@wcssp.org
3	Harry Bell	Green Crow	360-417-3643	harry@greencrow.com
4	Ed Bowen	Ozette Citizen		rockypt@olypen.com
5	Chris Byrnes	WDFW	360-417-1426	Chris.byrnes@dfw.wa.gov
6	Pat Crain	Olympic National Park	360-565-3075	Patrick_crain@nps.gov
7	Mike Haggerty	Mike Haggerty Consulting	360-928-0124	mhaggerty@olypen.com
8	Joe Hinton	Makah		mtchoko@olypen.com
9	Mike Libera	Landowner	360-457-5662	mikelibera@tfon.com
10	Deborah Kucipeck	Clallam County	360-417-2563	dkucipeck@co.clallam.wa.us
11	John Mahan	Quileute	360-374-5696	John.mahan@quileutenation.org
12	Stephanie Martin	Makah	360-645-3173	Stephanie.martin@makah.com
13	Adam Mehlhorn	Olympic National Park		
14	Joseph Murray	Merrill and Ring	460-3733	jmurray@merrillring.com
15	Bonnie Shorin	NOAA NMFS	360-753-9578	Bonnie.shorin@noaa.gov
16	Angela Tetnowski	Makah	360-640-4811	Angela.tetnowski@makah.com
17	Tim Tynan	NOAA NMFS	360-753-9579	Tim.tynan@noaa.gov
18	Claire Chase	Triangle Associates	206-583-0655	cchase@triangleassociates.com
19	Megan Johnston	Triangle Associates	206-583-0655	mjohnston@triangleassociates.com

Draft Meeting Summary
Lake Ozette Sockeye Steering Committee
September 17, 2015 // 10:15-3:30pm
Location: Sekiu Community Center

Meeting Decisions List

- All meeting materials and Committee materials will be posted to the new ozettesockeye.com website.
- The Committee agreed that PRA-5, 6 projects should be revisited after the Predation Workshop, when the Committee should have better guidance and recommendations from the Workshop speakers and research.
- The Committee approved the draft June 9, 2015 LOSSC meeting summary.

Introductions and Agenda Review

Claire Chase, the facilitator from Triangle Associates, welcomed the Lake Ozette Sockeye Steering Committee (LOSSC, or the Committee), and led introductions (*see Attachment A for list of attendees*). The Committee then reviewed the proposed agenda and agreed to move the Public Outreach Update earlier in the meeting to occur after the Near-Term Priority List (NTPL) updates.

Meeting Summary Review

The Committee reviewed the draft June 9, 2015 LOSSC meeting summary. The Committee agreed to accept the meeting summary with no additional edits.

Updates and Announcements

- The Riparian Scientific Advisory Group (RSAG) through the statewide Cooperative Monitoring, Evaluation, and Research Committee (CMER) is working on a pilot project to do remote sensing of riparian vegetation. One Committee member felt like this was a good way to inventory riparian areas, and is a comprehensive way to reach that information and create a broad knowledge base. It was unknown how the pilot project will get the data, other than they are using Lidar technology.
- 5-year status update: In order to complete the 5-year sockeye status update, NMFS solicited input from the Committee to outline local recovery activities, other activities that support recovery elsewhere, and other information.
 - That information was compiled into a table, and while it informed the status update, it will not be included in the final update.
 - NMFS is working on a draft of the status update, which is mostly drawn from a proceeding update from the Federal Register in 2007. In October, NMFS will advance a draft to the Northwest Fisheries Science Center, which will then make the recommendation to retain or change the current listing status of Lake Ozette Sockeye as threatened.
 - At the request of the Committee, NMFS will confirm whether the Committee can review the current draft of the status update before

the Science Center makes a determination. They will also make the final table and narrative available to the Committee.

- Resource Management Plan: The Makah Tribe submitted a request to NMFS to authorize extension of the supplementation program being carried out pursuant to the Resource Management Plan. NMFS prepared a biological opinion following the request to evaluate effects of such an extension. The effects will not jeopardize the ESU; accordingly, NMFS officially authorized an extension of the supplementation program in July. NMFS will make available copies of both the letter that requested the extension, and the letter that granted the extension. NMFS will determine if a Federal Register notice was required for this action.
- Funding for Steering Committee Facilitation: Facilitation for the Steering Committee is provided through two contracts, one from NMFS and one from the Washington Coast Sustainable Salmon Partnership (WCSSP).
 - WCSSP successfully secured the same amount from the Salmon Recovery Funding Board (SRF Board), and has a signed contract to renew Triangle Associates for another year. Rich Osborne will find out whether WCSSP can provide a copy of the new contract to the Committee.
 - In 2014, NMFS executed a contract with Triangle Associates with the option to go for up to five years. With the base year now complete, NMFS is working on securing an additional year.

Other announcements:

- As of the date of the meeting, Olympic National Park (ONP) is reopening coastal rivers for fishing which had been closed due to the drought.
- The state is reopening the Hoh, though the upper Hoh is still closed for recreation. Both the state and the Makah Tribe post details regarding fishing regulations to their websites on a daily basis.
- ONP has hired a new deputy superintendent. She will be briefed on the LOSSC.
- ONP has seen a lot of turnover in their enforcement division. Park staff will keep the Committee updated as the open positions are filled.

Big River and Umbrella Creek Overview

Shannon Murphie gave a presentation on the Makah Tribe's Big River and Umbrella Creek riparian restoration project. The Tribe applied for grant funding to implement this project, though at the time of the meeting the funding allocation was unknown.

Through the project, the Tribe would focus on a minimum of two acres of tribal property for revegetation and replanting. Of these two acres, it is hard to estimate the length of stream that will be restored because the infestation of noxious weeds could be narrow or wide across the stream bed. The Tribe will focus on larger areas of impact first. In their efforts they will focus on treating areas without actively planting anything new—allowing for natural succession. They would also like to

come up with draft plan to consider options for future restoration relating to noxious weeds.

Once the Tribe better understands the extent of noxious weeds, they can do a feasibility assessment and identify methodologies that are working in other places; then incorporate landowner interest and implement long-term management strategies. Ultimately, they would like to do this same project on other tributaries. The Tribe will also utilize an adaptive management strategy to restoration by going back to see how effective the enhancements are and assess the needs for future follow-up.

The Tribe also wants to do a comprehensive survey to determine the extent and presence of noxious weed species on Umbrella Creek. The Tribe will develop a map and database that identifies the range of noxious weeds in the area, and will assess and treat the areas accordingly. The Tribe is also interested in learning how private landowners want to address restoration. It was noted that it might be helpful to create a forum where the Tribe can talk to landowners to make plans for future restoration efforts.

Committee members commented on the inclusion of landowners in the efforts. The Tribe clarified that all of the restoration work will occur on Makah Tribal land. There was concern that landowners in the area either affect or are affected by the tribal land parcels that are being restored. In particular, landowners could be affected by the use of herbicides.

It was noted that Clallam County was included in a revised funding request for this project, but the Tribe had to remove that part of the funding request when re-applying. Clallam County's role will be to provide, at most, unfunded technical assistance for this restoration project, but is not serving as a project co-sponsor. The SRF Board funding will be allocated only to the Makah Tribe.

ONP staff also clarified that they decided not to participate in this work, because it occurs entirely on private property.

Review and Update Near-Term Priority List (NTPL)

The Committee reviewed the current NTPL and discussed updates to those documents. The Committee's discussion is summarized below.

PRA-5, 6: Consider predation projects and RME-5: Investigate each predator type

The Committee agreed that projects should be revisited after the Predation Workshop, when the Committee should have better guidance and recommendations from the Workshop speakers and research.

Updates:

- Makah is submitting a funding proposal to the USFWS Tribal Wildlife Grant by October 30th, specifically for studying river otter impacts to Lake Ozette

sockeye. The NTPL will be updated to include the abstract for that funding proposal.

PRA-7: DIDSON

There were no updates on the DIDSON data collection and analysis except that the work has continued. Discussion points included:

- A Committee member asked if there will be a funding shortfall affecting continued work with the DIDSON. Similarly, a member asked if the work that Mike Haggerty has done to analyze the DIDSON data will be available in the future. This will be followed up with at a future meeting.
- It was noted that regardless of potential funding shortfalls, the Makah Tribe recently acquired a new boat, which can help acquire data for beach spawning ground surveys this winter.
- As a result of this conversation, the NTPL will be revised to show to separate efforts in connection with this project:
 - Programmatic DIDSON data collection and beach ground spawning surveys.

HRA-8: There are several projects on the NTPL that are related to HRA-8 in the Master List. These are listed below:

- *Compile and map data on invasive weed treatment around the Olympia Peninsula*
ONRC considered how to do this and concluded that a peninsula-wide effort would require significant time and funding, and would also require hiring someone to compile and maintain the data. Groups that are currently leading projects in the Olympic Peninsula are already tracking this type of data on an annual basis and making it available in their contract reports. The Committee agreed to remove this from the NTPL, but encourage entities to map or continue to map their projects individually.
- *Ongoing basin-wide invasive weed assessment and mapping, and management and reduction strategy*
ONP may have to re-compete for funding that would be appropriated in 2018. ONP will report back to the Committee with further information. It was noted that there is not much going on with the knotweed infestation on DNR land upstream of Lake Ozette.
- *New information for NTPL based on weed assessment at two spawning sites in Lake Ozette*
Reed canary grass is present on 4-5 sites at Olsen's. Further north is another potentially native plant called three-way sedge. A Committee member will continue to keep the Committee updated on if this is a native or invasive. Additionally, the member is available to help update ONP's proposal for site maintenance funding for noxious weed control with that information.

HRA-21: NPS Lake Outlet Rehabilitation

- This project will be further developed by the Habitat Subcommittee, which was unable to discuss this in detail before this meeting. They will work to meet at least once before the next LOSSC meeting and update the Committee then.
- The Committee suggested that the Habitat Subcommittee consider the information from the additional information in the previous sub-section.

PEA-6: Public Education and Outreach

Recently, the kiosk at the Big River Bridge site was vandalized, and the materials that were posted to the kiosk are gone. Joe Hinton will check with Stephanie Martin to see if she has further information about this incident.

A Committee member suggested posting informational material to a panel on the Hoko-Ozette Road, saying it is one of the only places besides the Clallam County visitor center where passersby could learn about the Lake Ozette sockeye. Another Committee member suggested posting information to a kiosk in Sekiu. The Committee agreed to post information to the Hoko-Ozette Road panel until the Big River Bridge kiosk can be repaired and the materials replaced.

RME-17, 18: Egg Survival Study

This NTPL will be added to the list for the Habitat Subcommittee to discuss the next time they convene.

Coal Creek Culvert-to-Bridge Replacement

This project was recently funded with \$11.2 million. The Committee suggested keeping this project on the NTPL until it is completed, around 2017, even though it has been funded. WCSSP can continue to update the Committee on the project's progress.

HRA-14

Due to the focus on large woody debris (LWD) in this project, some Committee members cautioned against overstating LWD in habitat restoration. Others suggested adding a bullet that considers the Lower Ozette system for potential LWD installation. The committee can discuss this further at future meetings.

Public Outreach Subcommittee Update

The Committee discussed the Lake Ozette sockeye celebration event, held on July 11th, 2015. The Public Outreach Subcommittee had organized similar events in November 2013 and 2014, but decided to move this event to July hoping for better turnout. However, the weather at the July meeting ended up rainy, and the event had low turnout. The Subcommittee recommended suspending future public events, since they have historically not been well attended.

The Subcommittee also recommended other opportunities to increase outreach to the public about the sockeye and restoration efforts, primarily targeted at Clallam County residents. Ideas included the following, which were discussed by the Committee:

- Mike Haggerty Consulting drafted a website (ozettesockeye.com) that could be used as the main website for all activities and information related to the Steering Committee.
- Hosting a community picnic, or joining the organizational efforts for an existing one, could be a less labor-intensive way to reach out to local residents.
- Park rangers used to host a talk at Ozette. They still host talks at the Mora campground. Park staff could modify that talk or have a specific one to talk about Ozette sockeye and encourage Mora campers to take a day trip to Ozette.
- The town of Sekiu participates in RainFest, an annual film festival, in connection with the Washington Sea Grant's River and Ocean Festival. The film festival shows locally-produced films about natural resources on the Olympic Peninsula. The Subcommittee or LOSSC could make a film about the Ozette sockeye.
- Set up an informational booth, or participate in other capacities, at Makah Days and Quileute Days.
- Frank Hanson volunteered to host a talk about the sockeye during one of his evening talk series.
- As part of a long-term weed management and educational strategy, host weed-pulling events with local schools.

Life History Model

Andrea Woodward, U.S. Geological Survey, secured funding for and began a project with Pat Crain and Mike Haggerty to investigate computer modeling to help prioritize actions for Lake Ozette. They have begun developing a user-friendly Life History Model to help the Committee and other entities channel their recovery actions towards high-priority needs, and gave a presentation to the Committee on the early stages of this project. Andrea's PowerPoint presentation will be posted to the ozettesockeye.com website.

Committee members stated that the data and concept are intriguing, and are excited to hear how the project develops. Andrea encouraged Committee members to contact her with any feedback on the model, or on how it can be altered to be useful for them.

Update on Final Run Size Estimates

Mike Haggerty gave a presentation on his run-size estimates project titled, "Ozette Sockeye Abundance Estimates for NMFS Status Review." The project's two objectives were to produce annual run-size estimates for return years 2004-2012, and to estimate Umbrella Creek run-sizes for return years 2003 through 2013. Mike

reviewed methods and results in a PowerPoint presentation, which will be posted to the ozettesockeye.com website. Mike concluded that because of data gathering issues, they don't have complete data sets, and that overall population estimates are not available.

Funding Sources

NMFS noted that a brief conversation with Department of Ecology's floodplain management staff associated with Floodplains by Design granting indicates 3 floodplain restoration activities in the Master List appear suitable and should compete for funds. A committee member expressed concern with the Floodplains by Design as a funding entity, but stated that it would be helpful if someone from Floodplains by Design speak to the group. Bonnie will invite the Ecology staff to present to the Committee, and when the presentation could happen.

Predation Workshop

Committee members Pat Crain and Jeff Fisher have developed the draft agenda for the Predation Workshop. The following updates and requests were discussed:

Administrative Updates:

- The workshop date is confirmed for October 29th & 30th. The Committee should look for an RSVP site (the preference is to have the RSVP site and final agenda come out at the same time).
 - *NOTE: The workshop has since been postponed until early 2016.*
- All of the invited speakers have confirmed their attendance. They have been asked for the final titles of their talks by the end of September so the agenda will be updated. However, some names and dates may still change, based on peoples' availability.
- After the agenda is finalized, there will be a Predation Workgroup call. It would be helpful if Triangle participated in that call, to help focus the architecture of the breakout sessions. Triangle might also be able to listen to the first dialogues and capture information that can be synthesized and used to provide a framework to guide the breakout group discussions.
- The Committee discussed who from the group might provide opening remarks. They decided that the Committee would reach out to Harry Bell and Joe Murray first. If neither of them wants to speak, the Committee will reach out to Miles Batchelder to see if he is interested in making the opening remarks.

Other Updates:

- The Committee agreed that the workshop would be well suited for students to attend, especially since it will be held at Peninsula College. One Committee member will work with Huxley College to identify interested students who could either participate in or audit the workshop.
- Shannon Murphie will see if she can identify someone from the Makah Tribe to make remarks at the workshop opening.

- A Committee member expressed concern that the Marine Mammal Protection Act should be addressed in the workshop. It was noted that a marine mammal expert has been invited to speak, so that topic should be covered.

Committee Member Requests:

- That a quick overview of regulations that apply to predation is added to this agenda (this can be added towards the end of Day 2).
- Tracking Master List actions in a large, readable format on the wall throughout the workshop, so participants can see what actions have been identified or referred to during the workshop.
- Maintaining a “parking lot” list, where people can note thoughts and suggestions for future discussions.

Funding Update:

NMFS submitted a proposal that was approved for funding to support Triangle’s facilitation and costs; an element of that proposal didn’t make it into the final funding, and that was supposed to fund speaker costs. NMFS is trying to meet the cost discrepancy of what was proposed, and is pursuing other opportunities to address this funding gap. The Park Service will provide lodging for the speakers to reduce costs. If no additional funding is found, the Steering Committee may have only three quarterly meetings this next year to cover some of this funding gap. A Committee member suggested keeping all four quarterly meetings, but one might have to be without Triangle Associates’ facilitation and note-taking.

Proposed Agenda Topics for Next Meeting (December/January)

- Vibert boxes.
- The evolution of LOSSC, and how to make the Committee as effective as possible.
- Presentation on Floodplains by Design.

Attachment A: Meeting Participants

	Name	Affiliation	Telephone	Email
1	Ed Bowen	Ozette Citizen		rockypt@olympen.com
2	Pat Crain	Olympic National Park	360-565-3075	Patrick_crain@nps.gov
3	Jeff Fisher	NOAA's National Marine Fisheries Service	360-534-9342	Jeff.fisher@noaa.gov
4	Mike Haggerty	Mike Haggerty Consulting	360-928-0124	mhaggerty@olympen.com
5	Frank Hanson	NPCLE-OWNRC	360-640-1861	Fsh22@us.edu
6	Joe Hinton	Makah		mtchoko@olympen.com
7	Katie Krueger	Quileute Tribe	360-374-2265	Katie.krueger@quileutetribe.com
8	Deborah Kucipeck	Clallam County	360-417-2563	dkucipeck@co.clallam.wa.us
9	Roy Morris	Ozette Citizen; Lion's International		able@olympen.com
10	Joseph Murray	Merrill and Ring	460-3733	jmurray@merrillring.com
11	Rich Osborne	Washington Coast Sustainable Salmon Partnership/ONRC	360-374-4560	osborner@uw.edu
12	Bonnie Shorin	NOAA's National Marine Fisheries Service	360-753-9578	Bonnie.shorin@noaa.gov
13	Andrea Woodward	USGS	206-526-2534	awoodward@usgs.gov
14	Claire Chase	Triangle Associates	206-583-0655	cchase@triangleassociates.com
15	Rachel Caldwell	Triangle Associates	206-583-0655	rcaldwell@triangleassociates.com

Final Meeting Summary
 Lake Ozette Sockeye Steering Committee
 December 9th, 2015 // 10:15-3:15pm
 Location: Sekiu Community Center

Action Items and Decisions

Action Items

Action Item Owner	Timeframe
Bonnie Shorin, NMFS	
Bonnie Shorin will make inquiry on a Floodplains by Design application for the Hoko Ozette Road move project.	<u>ASAP; initial application due late January 2016</u>
Schedule a meeting with Pat Crain, Sarah Creachbaum, Lee Taylor, and Jeff Fisher to discuss the importance of Lake Ozette sockeye.	<u>Early 2016</u>
Talk with the DNR Olympic Region (Forks) for the latest information on RMAPs to update the 5-year status review.	<u>ASAP</u>
Send a notice of 5-year status update (through Triangle) to the Committee.	<u>When available</u>
Keep an eye out for more information about the NOAA Coastal and Marine Habitat Restoration program; update LOSSC as appropriate.	<u>When available</u>
Ask if HRA14 as it's presented potentially be an interest to Ecology —not in context of FBD, but just to Ecology.	<u>Early 2016</u>
Miles Batchelder, WCSSP	
Send Ed Bowen a copy of the welcome letter that was sent to the new landowner on Pat Ness' property.	<u>ASAP</u>
Provide the Committee with a photo of the boat that was procured for the DIDSON NTPL.	<u>ASAP</u>
Work with Triangle to identify a Task ID for the Coal Creek NTPL project.	<u>Jan/Feb 2016</u>
Forward a project description of HRA-8/PEA-4, 6, 11, the Lake Ozette Watershed Restoration Project to Triangle.	<u>Jan/Feb 2016</u>
Pat Crain, ONP	
Send his Lake Ozette sockeye salmon (LOSS) PowerPoint presentation to the Committee to see if they want to use a modified version of it for public outreach.	<u>ASAP</u>
Talk with Mike Haggerty about a possible vegetation removal project at Olsen's Beach.	<u>Jan/Feb 2016</u>
Work with Jeff Fisher and workshop speakers to finalize the Predation Workshop dates.	<u>ASAP</u>
Nicole Rasmussen, Quileute Tribe	
Check with NWIFC about potential funding for predation workshop.	<u>ASAP</u>
Try to find where NOAA's oral histories are saved (from Peggy Foreman's work), and see if those can be submitted to the RainFest Film Festival.	<u>Jan/Feb 2016</u>
Others	
Jenny Knoth will ask Tom Swanson about securing Green Crow photos of Coal Creek culvert-to-bridge project for uploading to the LOSS website.	<u>ASAP</u>

Chris Byrnes will share updates on RMAP with Bonnie after the RMAP meeting in February 2016.	<u>February 2016</u>
Deb Kucipeck will investigate having an LOSS booth at RainFest in Forks.	<u>Jan/Feb 2016</u>
Ed Bowen will draft and send letters of Committee support for regular LOSSC meeting facilitation and Predation Workshop funding.	<u>ASAP</u>
Mike Haggerty will update the LOSS website with photos of the DIDSON boat.	<u>Jan/Feb 2016</u>
Triangle Associates	
Contact Shannon Murphie to determine if Makah is the best champion for HRA14. Triangle will also work with Mike Haggerty about the potential owners of these stream segments, and what the segments' relationships are to this NTPL.	<u>Jan/Feb 2016</u>
Connect Deb Kucipeck and Nicole Harris about the Dungeness River Weekend Festival at which the LOSSC could potentially set up an outreach booth.	<u>Jan/Feb 2016</u>
Work with Miles Batchelder to update the WCSSP website with meeting summaries and PowerPoint presentations from the September 17 th , 2015 meeting.	<u>ASAP</u>
Schedule Habitat Subcommittee and Public Outreach Subcommittee check-in conference calls to take place before the next LOSSC meeting.	<u>2/15/16</u>

Decisions

- The Committee approved the draft September 17th, 2015 LOSSC meeting summary.
- The Committee approved sending letters of support for supplying funding for the Predation Workshop and regular LOSSC meeting facilitation.

Introductions and Agenda Review

Claire Chase, the facilitator from Triangle Associates, welcomed the Lake Ozette Sockeye Steering Committee (LOSSC, or “the Committee”), and LOSSC members introduced themselves (*see Attachment 1*). Claire reviewed the proposed agenda with the Committee. One Committee member asked to discuss the overall operations of the LOSSC, and agreed to add that to the “Future Agenda Topics” section of the agenda.

Miles Batchelder noted that since the last LOSSC meeting, he has sent a welcome and introduction letter to the private property owner but has not yet received a response. Miles will send the letter to Ed Bowen in case Ed can help introduce LOSSC to the new landowner.

Floodplains by Design Presentation

Bonnie Shorin, (NMFS), gave a presentation on the Department of Ecology’s Floodplains by Design program. The Committee previously identified projects on the Near-Term Priority List (NTPL) that may qualify for this funding, and requested a presentation of the program.

Background:

The Floodplains by Design program is a collaborative partnership led by The Nature Conservancy, the Puget Sound Partnership (PSP), and the Washington State Department of Transportation (WSDOT). The program’s purpose is twofold: floodplain restoration (through habitat restoration), and addressing infrastructure issues such as road damage. This is accomplished by requesting and then distributing funds from the state legislature to help implement on-the-ground projects.

While historically focused on Puget Sound-wide projects, the program is currently trying to expand opportunities to the Washington coast and Eastern Washington. The program will break projects into two categories: small projects requiring \$500,000 or less in funding, and larger projects requiring more than \$500,000. This will make it possible for smaller communities with smaller projects to compete for the funding.

Funding:

To be competitive for funding, projects must have a flood damage reduction aspect. In addition, the program favors floodplain restoration projects that improve salmonid habitat. The program also looks for projects that improve agricultural functions. For consideration for funding, projects must demonstrate a funding match component. Projects that improve health and safety concerns may be given a higher rating. Additionally, projects that are endorsed by partners may receive a higher point factor when going through review process.

The application deadline for the upcoming funding biennium is January 29th.

Discussion:

- The Committee discussed possibly applying for funding for the Big River project (*HRA-8/PEA-4, 6, 11: Lake Ozette watershed restoration project*). From previous discussions about this project, it was noted that the County would support this project, but could not be the project’s advocate or funding applicant.
- The Committee discussed the idea of getting letters of support from the community if they decide to apply for funding through this program, which could increase the competitiveness of their project when the project is reviewed. The Committee also discussed stating in the proposal that the project is identified in the Lake Ozette

Sockeye Salmon recovery plan. Projects that address listed species may be given higher weight during the review process.

- One Committee member suggested looking at the Makah Tribe's Big River Salmon Recovery Funding Board (SRF Board) proposal as one possible model for a Floodplains by Design proposal.
- A Committee member stated that there will need to be a citizen education component to any Floodplains by Design projects that the Committee pursues.

Meeting Summary Review

The Committee reviewed the draft September 17th, 2015 LOSSC meeting summary. A member suggested one change:

- The Big River and Umbrella Creek Overview section should be updated to clarify that Clallam County's role will be to provide, at most, unfunded technical assistance for this restoration project, but is not serving as a project co-sponsor. The SRF Board funding will be allocated only to the Makah Tribe.

The Committee agreed to accept the meeting summary with the proposed change noted above.

Resource Management Plan Updates

The Committee discussed the Makah Tribe Resource Management Plan (RMP), although no Makah Tribe staff or representatives were present at the meeting to speak to the Plan's updates. It was noted that the RMP was completed in January 2015, and the tribe is reauthorizing and renewing the plan. The Committee also discussed the technical difficulty the Tribe is currently having transitioning from their weirs. NMFS is attempting to secure funding to assist with a technical contract to assist the Tribe. A Committee member requested that the project's timeframe be made public.

Funding for Steering Committee Facilitation

WCSSP Funding:

Miles Batchelder with the Washington Coast Sustainable Salmon Partnership (WCSSP) stated that the WCSSP contract for funding two LOSSC meetings in fall (September) and winter (December) of 2015 is current. Miles can send this contract to Committee members upon request. Miles clarified that the contract used to be a separate item, but has now been folded into WCSSP's base grant, which should increase the chances of long-term retention of the contract.

NMFS Funding:

Bonnie Shorin provided an update on the NMFS portion of the facilitation contract. She stated that NMFS funding is currently not secure. There are two funding request options: one is to request Phase 2 funding, which is more discretionary and noncompetitive, but which is already over-allocated in terms of requests. The other option is to seek request Phase 3 funding, which is competitive. She clarified that currently, there is no NMFS funding available for facilitation of the spring and summer 2016 LOSSC meetings.

It was then clarified that WCSSP's financial support of the LOSSC facilitation has been predicated on NMFS' match. If NMFS does not approve funding for 2016, that may implicate WCSSP's funding in the future. However, this funding is in WCSSP's budget for the next biennium.

Discussion:

- The Predation Workshop funding request is also pending. If two quarterly meetings cannot occur due to budget constraints, but funding for the Predation Workshop is secured, the Committee could have a limited LOSSC meeting in February or March, during the Predation Workshop.
- The Committee discussed drafting letters of support to NOAA for NMFS' funding for the early 2016 meetings, and to NOAA for funding for the Predation Workshop. These letters are to be drafted and distributed to Committee members for review, and then will be sent to the appropriate parties.
 - *Update: These letters were drafted during the meeting. Those present at the meeting approved the drafts. With agreement from the Committee, Committee member Ed Bowen served as the signatory. The letters were then distributed to the entire Committee for review via email, and then mailed to NOAA.*

Predation Workshop

- The dates for the Predation Workshop are not yet determined, but the workshop will likely occur in March or April 2016.
- NOAA has requested \$10,000 for workshop funding. In addition, Pat Crain (ONP) submitted a technical assistance request that would secure funding for the workshop proceedings, and provide funding for the Park's chief fisheries biologist, to attend the Workshop as another expert/participant, and write the workshop proceedings. *Note: After the meeting, both NOAA and ONP confirmed successful funding requests for the \$10,000 funding request from NOAA and the workshop proceedings funding from ONP.*
- The Committee discussed the desired format for the workshop proceedings. They noted preference to have the report be peer-reviewed, and published in NOAA's or the National Park Service's standard format.
- The Committee discussed exploring the possibility of asking the Northwest Indian Fisheries Commission for workshop funding if NOAA doesn't fund the workshop.

Review and Updates to Near-Term Priority List (NTPL)

PRA-5, 6: Consider identifying projects and RME-5: Investigate each predator type

- Mike Haggerty has not heard from Andrea Woodward (USGS) since the last meeting, regarding further development of his life history model.
- The Makah Tribe submitted another request on the *River Otter Impacts* study to Fish, Wildlife, and Parks. ONP provided a letter of support. The Tribe may not hear the status of this request until April or May of 2016.

PRA-7: DIDSON

The boat needed to perform data collection has been acquired. At the time of this meeting, project leads had not started using the DIDSON; but were prepared to begin soon. Pat Crain can ask his staff to help the boat crew and Makah Tribe with the surveys, if assistance is needed.

Committee members requested that Makah keep them informed about any detected interaction between pike minnow and LOSS that are picked up during the surveys, and that photos of the boat be posted to the LOSSC website.

HRA-8: Ongoing basin-wide invasive weed assessment and mapping, and management and reduction strategy

ONP will receive funding in 2018 to work in the Quinault basin. The funding will also allow ONP to conduct reed canary grass control as well. They will focus primarily on controlling reed canary grass on the islands at the lake outlet, but acknowledged that there could be a need for shoreline work, too. It was noted that the ONP's chief botanist is interested in this work.

A recommendation was made to look to the Makah Tribe's reed canary grass control work on Umbrella Creek now and in years to come as an example of how to manage reed canary grass.

HRA-8/PEA-4, 6, 11: Lake Ozette watershed restoration project

The Committee agreed to update the title of this project. More work will be done offline before the next Committee meeting.

HRA-8/PEA-4, 6, 11: Exotics Mapping

The Committee discussed an existing shoreline mapping report, acknowledging that it is not known whether that project targeted just the lake or a broader area. The Department of Natural Resources (DNR) is doing projects on the south end of the lake; so there may be project partners that have not been identified yet. The Committee also discussed the potential for this to be a citizen science or volunteer-driven project.

There are currently no known potential funding sources for this project. A suggestion was made to discuss the viability of this project as a near-term project at the next Habitat Subcommittee Meeting. A request was made to make sure that people who are doing on-the-ground work participate in that meeting; if this is identified as a viable near-term project, it will need a champion.

HRA-21: NPS Lake Outlet Rehabilitation

This is a small project that Mike Haggerty, Pat Crain, and the Water Quality Crew from ONP can take on in the summer of 2016. Nicole Rasmussen's spawning teams might also be available to participate in this project.

PEA-6: Public Education and Outreach

See *Public Outreach Updates* on Page 8.

RME 17-18:

The Habitat Subcommittee discussed revising the approach to how to improve the quality of beach spawning habitat. One suggestion was to do on-the-ground work, then link that work with monitoring to determine success. The subcommittee acknowledged that the problem areas have been identified; and that at this stage the next steps should be to treat and evaluate. The site selection process has not been determined, but they may look north into the corner of the lake's spawning area.

The anticipated first step is seeing whether fish naturally repopulate the area. If they don't, the next step would be to artificially hold fish in the area to see if they survive in those areas. If the fish do not naturally come into the areas but survive in the areas when held there, the next step would be to evaluate why the fish are not naturally coming into these areas.

This near-term project will remain on the NTPL with the understanding that it will not be completed in the next three years. In addition, the Committee agreed to add a new project that would re-create some of the habitat types that are already successful on spawning beaches in higher elevation beaches where vegetation has encroached on the beach.

Coal Creek Culvert-to-Bridge Replacement

This project has been fully funded and will likely be completed in early 2016.

HRA-14

Previous assessments have shown that there is plenty of large woody debris below the bridge, and also identified stream segments away from personal property infrastructure that need lower woody debris. The project highlights stream segments from the Recovery Plan, which could be used to focus this project. Triangle will work offline to determine the landowners for those various stream segments and see who is willing to champion this project.

NOAA's 5-Year Status Update

Bonnie Shorin provided an update on NOAA's 5-year status update process for Lake Ozette sockeye, which also includes habitat description. Bonnie submitted a draft of the update, which will now be reviewed and consolidated with the other West Coast salmonid species. A Federal Register notice will go out soon about the 60- or 90-day public comment period. Bonnie will notify Triangle when the Federal Register notice is posted, and Triangle will forward to the Committee.

Public Outreach

Bonnie and Claire jointly discussed the Public Outreach Subcommittee call summary. The Committee recognized there are several ideas about how to reach a broader community and engage affected or concerned citizens, and therefore identified the following outreach goals:

- Focus outreach efforts to reach adults and children who live in the area.
- Have a booth or representatives at existing events that already draw a regional audience.
- Modify existing programs for the Ozette area schools to highlight Lake Ozette Sockeye, and targeting outreach within regional schools.

Discussion:

- A Committee member noted that Nature Bridge at ONP has a 'teach the teacher' program in the summer. The Committee could work with that program as they develop in-school outreach programs. Current teacher trainings do not discuss sockeye specifically, but Lake Ozette sockeye could potentially be incorporated into a customized teacher training program.
- The Committee commented that in-school outreach could target high school and middle school science classes. The group could decide on a body of information to present to students. Committee members suggested approaching superintendents by April to get into the following years' curriculum.
 - Frank Hanson (North Pacific Coast Lead Entity) volunteered to give the in-school presentations.

- Pat Crain has given a presentation on Lake Ozette sockeye in the past. He offered to give this presentation to the Committee, to see if the Committee would be interested in using it for a public program.
- A Committee member suggested exploring the possibility of having a booth at the Dungeness River Weekend Festival. Deb Kucipeck offered to staff the booth.
- The Committee also discussed conducting outreach at RainFest Film Festival.

Funding

- Congress appropriated funding, through 2017, for the No Child Left Inside program, but funding is not likely in future years. This could be a funding avenue for school outreach opportunities.
 - *Update: The deadline to apply for funding through this program was December 15th, 2015.*
- The Washington National Park Fund (WNPF) is accepting proposals for actionable projects that benefit Washington national parks. The application deadline is January 6th, 2016, but the Committee acknowledged that this might be a funding source to consider in 2016.
 - The Committee identified a hands-on vegetation removal project at Olsen's beach for consideration for this funding avenue.
- The Washington Coast Restoration Coalition (WCRC) has decided not to apply for supplemental funding, but may apply next year—the Committee could consider this when evaluating funding opportunities and partnerships, to determine whether there is a project WCRC and LOSSC can partner on.

Attachment A: Meeting Participants

	Name	Affiliation	Telephone	Email
1	Miles Batchelder	Washington Coast Sustainable Salmon Partnership	360-532-9113	milesb@wcssp.org
2	Harry Bell	Washington Farm Forest Association	360-417-3643	harry@greencrow.com
3	Ed Bowen	Ozette Citizen		rockypt@olympen.com
4	Chris Byrnes	Washington Department of Fish and Wildlife		byrniecjb@dfw.wa.gov
5	Pat Crain	Olympic National Park	360-565-3075	patrick_crain@nps.gov
6	Mike Haggerty	Mike Haggerty Consulting	360-928-0124	mhaggerty@olympen.com
7	Frank Hanson	NPCLE-OWNRC	360-640-1861	Fsh22@us.edu
8	Jenny Knoth	Green Crow	360-460-2613	jenny@greencrow.com
9	Deborah Kucipeck	Clallam County	360-417-2563	dkucipeck@co.clallam.wa.us
10	Clallam County Commissioner Bill Peach	Clallam County		
11	Nicole Rasmussen	Quileute Tribe	360-640-8042	nicole.rasmussen@quileutenation.org
12	Bonnie Shorin	NOAA's National Marine Fisheries Service	360-753-9578	bonnie.shorin@noaa.gov
13	Tim Tynan	NOAA's National Marine Fisheries Service	360-753-9579	timtynan@noaa.gov
14	Claire Chase	Triangle Associates	206-583-0655	cchase@triangleassociates.com
15	Rachel Caldwell	Triangle Associates	206-583-0655	rcaldwell@triangleassociates.com