



Department of Energy

Bonneville Power Administration
P.O. Box 3621
Portland, Oregon 97208-3621

FREEDOM OF INFORMATION ACT/PRIVACY PROGRAM

September 11, 2020

In reply refer to: FOIA #BPA-2019-01374-F

Geana M. Van Dessel
Kutak Rock LLP
Cutter Tower
510 West Riverside Avenue
Spokane, WA 99201-0506
Email: geana.vandessel@kutakrock.com

Dear Ms. Van Dessel,

This communication is the Bonneville Power Administration's (BPA) final response to your request for records, submitted to the agency under the Freedom of Information Act, 5 U.S.C. § 552 (FOIA). BPA received your records request on September 19, 2019. After re-scoping efforts with you, all described below, your request was formally acknowledged on November 19, 2019.

Original Request received September 19, 2019

1. Any and all records relating to or concerning the sampling, processing, utilization and/or disposal of all Northern Pikeminnow since the inception of the Northern Pikeminnow Management Project ("NPMP") to the present date.
2. Any and all records related to cold storage facilities and/or rendering facilities where Northern Pikeminnow were transported, stored, processed or disposed of since the inception of the NPMP to the present date.
3. Any and all contracts related to the sampling, processing, utilization and/or disposal of all Northern Pikeminnow since the inception of the NPMP to the present date.
4. Any and all records related to communications between the BPA and the Pacific States Marine Fisheries Commission related to the sampling, processing, utilization and/or disposal of all Northern Pikeminnow since the inception of the NPMP to the present date.
5. Any and all records related to communications between the BPA and the Northwest Power and Conservation Council related to the sampling, processing, utilization and/or disposal of all Northern Pikeminnow since the inception of the NPMP to the present date.
6. Any and all records related to communications between the BPA and the Washington Department of Fish and Wildlife related to the sampling, processing, utilization and/or disposal of all Northern Pikeminnow since the inception of the NPMP to the present date.
7. Any and all records related to the annual budget and/or funding provided by BPA for the NPMP since its inception to the present date.

8. Any and all records related to financial payments to angler's related to the NPMP since its inception to the present date.
9. Any and all records related to the number of Northern Pikeminnow submitted in connection with the NPMP since its inception to the present date.
10. Any and all records related to studies, reports or other data related to or concerning the utilization of all Northern Pikeminnow in connection with the NPMP.
11. Any and all records related to the creation, inception and/or approval of the NPMP, including but not limited to, documents related to the purpose of the NPMP."

Clarification & Limitation Developed on October 25, 2019

"Any and all records related to the annual budget and/or funding provided by BPA for the NPMP since its inception to the present date; Any and all records related to financial payments to angler's related to the NPMP since its inception to the present date; Any and all records related to the creation, inception and/or approval of the NPMP, including but not limited to, documents related to the purpose of the NPMP; information that isn't already in the publicly available reports from Pacific States Marine Fisheries Commission; any post-catch reports, and any studies/surveys done prior to the implementation of the NPMP, and any studies/surveys of fish tissue concentrations performed as part of the NPMP, and any reports on anglers (excluding PII), and program budget information."

Previous Partial Responses

Significant responsive and publicly available agency records were transmitted to you via emailed internet links, sent on September 20, 2019. Thereafter, your records request response was on hold briefly while you and the agency developed the new scope of the request described above. Additional responsive publicly available agency records were then transmitted to you on December 3, 2019. You were advised that the BPA Library was available to search for additional publicly available responsive records and information.

Final Response

The FOIA Office engaged with the following agency offices to gather any records they might have in response to your request:

Natural Resources	Office of General Counsel
Washington Implementation	Grants & Agreements Team
Oregon Implementation	Fish and Wildlife Division
Information Governance	

BPA has gathered 194 pages of records responsive to your request. Those records include aged and current budget information regarding the NPMP. Those records are being released herein with redactions applied to 14 pages to protect individuals' personally identifiable information (PII). An explanation of the redactions applied follows.

Explanation of Exemptions

The FOIA generally requires the release of all responsive records upon request. However, the FOIA requires or permits withholding certain limited information that falls under one or more of nine statutory exemptions (5 U.S.C. §§ 552(b)(1-9)).

Exemption 6

BPA is required to review responsive records for possible exemptions under 5 U.S.C. § 552(b)(6) (Exemption 6). Exemption 6 serves to protect PII contained in agency records when no overriding public interest in the information exists. BPA does not find an overriding public interest in a release of the information redacted under Exemption 6—specifically, the names of non-BPA individuals as well as their salary and benefits information. BPA cannot waive these redactions as the protections afforded by Exemption 6 belong to individuals and not to the agency.

Public Availability Confirmations

Records custodians in the agency offices listed above have examined their individual files for responsive records. The various knowledgeable agency personnel have confirmed that what records they might have are already publicly available at one or more of the internet caches previously provided to you.

Certification

Pursuant to 10 C.F.R. § 1004.7(b)(2), I am the individual responsible for the records search and final release described above. Your FOIA request is now closed with all available agency records provided.

Appeal

The adequacy of the search may be appealed within 90 calendar days from your receipt of this letter pursuant to 10 C.F.R. § 1004.8. Appeals should be addressed to:

Director, Office of Hearings and Appeals
HG-1, L'Enfant Plaza
U.S. Department of Energy
1000 Independence Avenue, S.W.
Washington, D.C. 20585-1615

The written appeal, including the envelope, must clearly indicate that a FOIA appeal is being made. You may also submit your appeal by e-mail to OHA.filings@hq.doe.gov, including the phrase “Freedom of Information Appeal” in the subject line. (The Office of Hearings and Appeals prefers to receive appeals by email.) The appeal must contain all the elements required by 10 C.F.R. § 1004.8, including a copy of the determination letter. Thereafter, judicial review will be available to you in the Federal District Court either (1) in the district where you reside, (2) where you have your principal place of business, (3) where DOE’s records are situated, or (4) in the District of Columbia.

Questions about this communication may be directed to BPA FOIA Public Liaison Jason E. Taylor at 503-230-3537 or jetaylor@bpa.gov. Additionally, you may contact the Office of Government Information Services (OGIS) at the National Archives and Records Administration to inquire about the FOIA mediation services they offer. The contact information for OGIS is as follows:

Office of Government Information Services
National Archives and Records Administration
8601 Adelphi Road-OGIS
College Park, Maryland 20740-6001
E-mail: ogis@nara.gov
Phone: 202-741-5770
Toll-free: 1-877-684-6448
Fax: 202-741-5769

Questions about this communication may be directed to James King, CorSource Technology Group LLC, at jjking@bpa.gov or 503.230.7621.

Sincerely,



Candice D. Palen
Freedom of Information/Privacy Act Officer

[Responsive agency records accompany this communication.](#)



Statement of Work Report

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 56795
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$3,835,583 **Perf. Period:** 4/1/2012 - 3/31/2013
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (PSMFC) (Prime - PACISTAT00)
BPA Internal Ref: 56795
SOW Validation: Last validated 03/08/2012 with 0 problems, and 0 reviewable items
Contract Documents: [Property Inventory \(03/08/2012\)](#) Pikeminnow Inventory 2012
 [Budget - Contract \(03/08/2012\)](#) Pikeminnow Program Overall Budget 2012

Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
Kristi Van Leuven	Contracting Officer	Bonneville Power Administration	(503) 230-3605 / NA	kjvleuven@bpa.gov	P.O Box 3621 Mailstop - NSSP-4 Portland, OR 97208-3621
Christopher Furey	F&W Approver	Bonneville Power Administration	(503) 230-3371 / NA	chfurey@bpa.gov	905 NE 11th Avenue KEWR-4 Portland OR 97232
Russell Porter	Contract Manager	Pacific States Marine Fisheries Commission (PSMFC)	(503) 595-3100 / NA	russell_porter@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413
Brad James	Administrative Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Christine Mallette	Technical Contact	Oregon Department Of Fish and Wildlife (ODFW)	(971) 673-6053 / (976) 736-073	christine.mallette@state.or.us	17330 SE Evelyn Street Clackamas, OR 97015
Eric Winther	Supervisor	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6749 / NA	winthew@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Pam Kahut	Administrative Contact	Pacific States Marine Fisheries Commission (PSMFC)	(503) 595-3100 / NA	pam_kahut@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202-6413
Thomas Rien	Technical Contact	Oregon Department Of Fish and Wildlife (ODFW)	(971) 673-6061 / (971) 673-6073	tom.a.rien@state.or.us	17330 SE Evelyn Street Clackamas OR 97015-



Steven Vigg	Interested Party	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6710 / NA	steven.vigg@dfw.wa.gov	State of Washington Department of Fish & Wildlife 2108 Grand Blvd. Vancouver WA 98661
Tucker Jones	Interested Party	Oregon Department Of Fish and Wildlife (ODFW)	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
Erick Van Dyke	Contract Manager	Oregon Department Of Fish and Wildlife (ODFW)	(971) 673-6068 / NA	erick.s.vandyke@state.or.us	
Ashley Deits	Administrative Contact	Pacific States Marine Fisheries Commission (PSMFC)	(503) 595-3100 / (503) 595-3232	adeits@psmfc.org	205 S.E. Spokane St., Ste 100 Portland OR 97202
Bruce Hollen	Interested Party	Bonneville Power Administration	(503) 230-5756 / NA		
Dan Gambetta	Env. Compliance Lead	Bonneville Power Administration	(503) 230-3493 / NA	dagambetta@bpa.gov	
Peter McHugh	Technical Contact	Oregon Department Of Fish and Wildlife (ODFW)	(971) 673-6085 / (971) 673-6073	peter.a.mchugh@state.or.us	17330 SE Evelyn Street Clackamas OR 97015
John Skidmore	COTR	Bonneville Power Administration	(503) 230-5494 / NA	jtskidmore@bpa.gov	905 NE 11th Ave. Portland OR 97232

Work Element Table of Contents:

Work Element - Work Element Title	EC Needed*	Estimate	(%)
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$0	(0%)
B : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$31,116	(1 %)
C : 99. Outreach and Education - Promotion/Sport Show Outreach		\$15,795	(0 %)
D : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$24,662	(1 %)
E : 132. Produce (Annual) Progress Report - Submit Annual Report for 2012		\$0	(0%)
F : 158. Mark/Tag Animals - Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$387,735	(10 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2012 Sport Reward Fishery Data Collection/Processing	*	\$59,406	(2 %)



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Dam Angling activities at The Dalles and John Day dams	*	\$101,085	(3 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,224,525	(32 %)
J : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2012 Sport Reward Fund	*	\$1,294,408	(34 %)
K : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2012 pikeminnow removals on reduction in salmonid predation	*	\$155,088	(4 %)
L : 157. Collect/Generate/Validate Field and Lab Data - Evaluate dam angling fisheries success for The Dalles and John Day dams	*	\$31,010	(1 %)
M : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$201,607	(5 %)
N : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$0	(0%)
O : 119. Manage and Administer Projects - Process and pay reward vouchers		\$268,192	(7 %)
P : 190. Remove, Exclude and/or Relocate Animals - Smallmouth Bass/Walleye dam angling at mid-Columbia River projects	*	\$40,954	(1 %)
Total:		\$3,835,583	

* Environmental Compliance (EC) needed before work begins.

Contract Description:

The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. The 2012 season will again see a heavy up of the sport fishery rewards implemented during 2004. In 2004, the most pikeminnow were removed in the history of the program (267,000 for a 17% exploitation rate followed by 242,315 for a 19% exploitation rate in 2005; 237,704 for a 17% exploitation rate in 2006, and 191,154 for an exploitation rate of 17% in 2007; 162,025 in 2008 for an exploitation rate of 19.6%; 142,002 for an exploitation rate of 12.8% in 2009; and 173,981 for an exploitation rate of 18.8 % in 2010; 155,312 for an exploitation rate of 15.6% in 2011). Also in 2012, dam angling fisheries will again be contracted by PSMFC to Washington Department of Fish and Wildlife to conduct dam angling at The Dalles and John Day dams.



Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA

Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2012 (4/1/2012 - 6/30/2012)	7/1/2012	7/15/2012	Inactive	
B. Jul-Sep 2012 (7/1/2012 - 9/30/2012)	10/1/2012	10/15/2012	Inactive	
C. Oct-Dec 2012 (10/1/2012 - 12/31/2012)	1/1/2013	1/15/2013	Inactive	
D. Final Jan-Mar 2013 (1/1/2013 - 3/31/2013)	3/17/2013	3/31/2013	Inactive	

B: 119. Manage and Administer Projects

Title: Provide Pikeminnow Management Program contractual and fiscal oversight

Description: Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.

Deliverable Specification: Submit next year's SOW, Budget, and Property Inventory to the BPA COTR. The SOW should include location information (latitude and longitude) for those work elements that require it. If contractor or contractor's organization takes longer than 30 days to sign the contract, the contractor will need to send this funding package to BPA more than 60 days before the end of the current contract.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Funding Package - Conduct internal review (e.g., Supervisor or Interagency)	1/1/2013	3/30/2013	Inactive	If necessary, submit next year's SOW and Budget for internal contractor review before submitting to BPA. Assuming this review takes 30 days, start this milestone 120 days before the end of the current contract.
B. Accrual - Submit September estimate to BPA	8/31/2012	9/30/2012	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Generally, this should be done by September 10.
Deliverable: C. Funding Package - Submit draft to COTR		1/16/2013	Inactive	<i>See the Deliverable Specification above</i>



C: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Sportsmen's Show booth, and program brochure
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman' Show booths.

Planned Metrics: # of general public reached: 500

Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Conduct classes, seminars, workshops, trainings, field tours, symposia and/or conferences	4/1/2012	5/31/2012	Inactive	Provide Program outreach at Sportsmen's shows, and fishing clinics.
Deliverable: B. Program promotion		9/30/2012	Inactive	See the Deliverable Specification above

D: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations
Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.
Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute salmonid listed stock ratios for weekly reports to NMFS	6/1/2012	10/31/2012	Inactive	Compute ratios of listed stocks for lower and middle Columbia river and the Snake river. Apply these ratios to the weekly salmonid interactions of pikeminnow anglers for the Biological Opinion (B.O.). weekly report to NMFS of pikeminnow catch and salmonid interactions.
B. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2012	9/30/2012	Inactive	Compile weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
C. Report weekly catches of pikeminnows, adult and juvenile salmonids and other game fish to NMF	5/1/2012	9/30/2012	Inactive	Submit the weekly catch report of p keminnows, salmonids and other species to NMFS in accordance with the B.O. Copies are transmitted to all Pikeminnow Program agencies and BPA.
Deliverable: D. Salmonid Take ratios for listed stocks and weekly report to NMFS		11/15/2012	Inactive	See the Deliverable Specification above

E: 132. Produce (Annual) Progress Report

Title: Submit Annual Report for 2012
Description: The annual report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range MMM YYYY to MMM YYYY (e.g. Apr 2012 to Mar 2013) will be agreed upon by the COTR and the contractor. This may or may not coincide with the contract period. For an ongoing project, an annual report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Annual reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: http://www.efw.bpa.gov/Integrated_Fish_and_Wildlife_Program/technicalreports.aspx.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce/Submit Scientific Findings Report.



Deliverable Specification: Upload annual report for the period (04/2012 to (03/2013). Currently, this is done via the BPA website; down the road, this may be done via attachments supported directly within Pisces. For guidance on how/where to upload: http://www.efw.bpa.gov/Integrated_Fish_and_Wildlife_Program/technicalreports.aspx

Planned Metrics:
 * Start date of reporting period : 4/1/2012
 * End date of reporting period : 3/31/2013

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review annual report format requirements	4/1/2012	6/30/2012	Inactive	Contractor must review formatting requirements before starting the first draft of their report. Please follow the BPA-required format. http://www.efw.bpa.gov/Integrated_Fish_and_Wildlife_Program/technicalreports.aspx
B. Submit report for internal contractor review	2/28/2013	3/15/2013	Inactive	Use this milestone if the annual report requires an internal review before being reviewed externally. Make sure to allow for both technical and policy reviews if necessary.
C. Submit report for external review	3/15/2013	3/23/2013	Inactive	Use this milestone if the annual report requires external review. May be simultaneously reviewed by external parties and BPA COTR if desired.
D. Email draft of report to COTR for review	3/23/2013	3/23/2013	Inactive	The draft annual report must be submitted to the BPA COTR in Microsoft Word format (any version of Word is fine).
E. Receive COTR review comments	3/28/2013	3/28/2013	Inactive	The BPA COTR should provide review feedback and comments within 30 days of receiving the draft annual report. This milestone should therefore have a duration of 30 days.
F. Finalize Annual Report	3/29/2013	3/30/2013	Inactive	Integrate review feedback and comments, and obtain internal signatures if necessary. Convert the annual report to Adobe Acrobat PDF format.
G. Confirm BPA has posted the report	3/30/2013	3/30/2013	Inactive	It usually takes BPA no more than 30 days to get the report posted. This milestone should therefore have a duration of 30 days. To confirm posting of the report, search the BPA Publications database. http://www.efw.bpa.gov/Integrated_Fish_and_Wildlife_Program/technicalreports.aspx
Deliverable: H. 2012 Final report uploaded to the BPA website		3/30/2013	Inactive	<i>See the Deliverable Specification above</i>

F: 158. Mark/Tag Animals

Title: Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals

Description: Collect pikeminnow for tagging with spaghetti tags and Pit Tags for population and evaluation studies for the Northern P keminnow Management Program.

Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.

Planned Metrics:
 * Primary R, M, and E Focal Area : Systemwide
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Predation

Primary Focal Species: P keminnow, Northern

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2012	6/30/2012	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: C. Collect and tag pikeminnow with spaghetti tags and Pit tags for program evaluation studies.		7/15/2012	Inactive	<i>See the Deliverable Specification above</i>

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2012 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Planned Metrics:

- * Primary R, M, and E Focal Area : Systemwide
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Area : Systemwide

Primary Focal Species: P keminnow, Northern

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Data Repositories: Northern Pikeminnow Sport Reward Fishery Program Website

Protocol: Predation Modeling (1990-077-00) **Proposed Project:** **Sites for this WE:** 1

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2012	11/15/2012	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Finalize stations and operating times, staff and train registration clerks for the 21 stations	4/1/2012	9/30/2012	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2012 season and their times of operation. Set stations to operate in 2012 and their times of operation to maximize station open times in relation to catch and cost efficiency.
D. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2012	11/15/2012	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
E. Provide program and fishery data to participants and interested parties at the stations	4/1/2012	10/31/2012	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 21 program stations.
Deliverable: F. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/15/2012	Inactive	<i>See the Deliverable Specification above</i>



H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Dam Angling activities at The Dalles and John Day dams
Description: Funds dam angling for the 2012 season to determine p keminnow populations and ability to remove them at The Dalles and John Day dams. This activity will take place from May through August, 2012.
Deliverable Specification: Conduct fishing at The Dalles and John Day dams from early May, 2012 through August, 2012.
Planned Metrics: Targeted piscivorous animal: 5000
Primary Focal Species: P keminnow, Northern
Country: US **NPCC Subbasin:** Multiple
State: Multiple **HUC5 Watershed:** Multiple
County: Multiple **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible) | Outside legal Columbia River Chum Salmon ESU boundary (Access ble)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Conduct dam angling from The Dalles and John Day dams	5/1/2012	8/31/2012	Inactive	Test angling for Northern pikeminnow off of The Dalles and John Day dams to determine abundance at the dams and check for catchability. The contractor (WDFW) will test various areas of fishing from the dam deck at both projects to determine CPUE for various time periods at each dam and its variation with season, spill, powerhouse operation etc.
Deliverable: C. Dam angling studies at The Dalles and John Day dams.		9/30/2012	Inactive	<i>See the Deliverable Specification above</i>

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations
Description: This work element addresses running the 21 registration/creel check stations on the river for the Sport Reward Fishery.
Deliverable Specification: Operate the 21 registration/creel check stations on the Columbia and Snake rivers from May 1, 2012 through September 30, 2012.
Planned Metrics: Targeted piscivorous animal: 150,000
Primary Focal Species: P keminnow, Northern
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Operate 21 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2012	9/30/2012	Inactive	Hire, train and supervise the clerks for the 21 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
C. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2012	9/30/2012	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2012	9/30/2012	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		10/15/2012	Inactive	<i>See the Deliverable Specification above</i>

J: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2012 Sport Reward Fund
Description: The reward fund used to pay regular and tag vouchers issued to Sport Reward anglers. The 21 registration/creel stations utilized in the program are entered in the location fields.
Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.
Planned Metrics: Targeted piscivorous animal: 0
Primary Focal Species: P keminnow, Northern
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2012	11/16/2012	Inactive	Manage and pay daily, or every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Sport Reward Fund		11/16/2012	Inactive	<i>See the Deliverable Specification above</i>

K: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2012 pikeminnow removals on reduction in salmonid predation
Description: Determine the exploitation rates for the various sectors of the fishery in 2012. Estimate reductions in salmonid predation related to these rates. Evaluation other predator's compensatory responses to the annual removal of p keminnows.
Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2012 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.
Planned Metrics:
 * Primary R, M, and E Focal Area : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Systemwide
Primary Focal Species: P keminnow, Northern | Walleye | Bass, Smallmouth
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**



Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)
Data Repositories: Northern Pikeminnow Sport Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) **Proposed Project:** **Sites for this WE:** 1

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	8/1/2012	2/28/2013	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Compute 2012 Northern P keminnow exploitation rates by program areas	5/17/2012	1/31/2013	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2011 season and report progress monthly and final end of season exploitation rates for the fishery and program areas.
D. Estimate 2012 reduction in predation over pre-program levels	10/1/2012	2/28/2013	Inactive	Determine salmonid predation reduction update by applying 2011 program data.
E. Examine pikeminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2012	2/16/2013	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
F. Study predator compensatory responses to pikeminnow removals	10/1/2012	2/16/2013	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response or lack thereof to continued removal of Northern pikeminnows.
Deliverable: G. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		2/28/2013	Inactive	<i>See the Deliverable Specification above</i>

L: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate dam angling fisheries success for The Dalles and John Day dams
Description: Monitor the CPUE of pikeminnows at The Dalles and John Day dams in relation to historic catches and CPUE in the sport reward fishery.
Deliverable Specification: Conduct a hook and line fishery between May and August at The Dalles and John Day dams. Determine success rates and catch per unit of effort at these two dams for fishing from the dam structure.
Planned Metrics:
 * Primary R, M, and E Focal Area : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Systemwide
Primary Focal Species: P keminnow, Northern
Country: US **NPCC Subbasin:** Multiple
State: Multiple **HUC5 Watershed:** Multiple
County: Multiple **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible) | Outside legal Columbia River Chum Salmon ESU boundary (Access ble)
Data Repositories: Northern Pikeminnow Sport Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) **Proposed Project:** **Sites for this WE:** 2



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	5/15/2012	8/31/2012	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Collect weekly Northern pikeminnow catch statistics at The Dalles and John Day dams	5/16/2012	8/31/2012	Inactive	ODFW will collect all Northern p keminnow caught daily in the dam angling fisheries from The Dalles and John Day dams. This will include collecting the fish caught at both dams or one should fishing occur all week at one project.
D. Collect Northern pikeminnow biological data weekly from the dam angling activities	5/15/2012	8/31/2012	Inactive	ODFW will collect biological data, and monitor for p keminnow program tags from all Northern pikeminnow caught in the dam angling activities. These fish will also be scanned for Pit tags by ODFW and all Pit tag data will be uploaded into the PTAGIS database system
Deliverable: E. Evaluate dam angling fishery success at The Dalles and John Day dams.		8/31/2012	Inactive	<i>See the Deliverable Specification above</i>

M: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries

Description: Monitor p keminnow responses of pikeminnow, walleye and smallmouth bass to the continuing removals of p keminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis.

Deliverable Specification: Evaluate the response of Northern P keminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Planned Metrics:

- * Primary R, M, and E Focal Area : Systemwide
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Area : Systemwide

Primary Focal Species: P keminnow, Northern

Country: **NPCC Subbasin:**

State: **HUC5 Watershed:**

County: **HUC6 Name:**

Salmonid ESUs Present:

Data Repositories: Northern Pikeminnow Sport Reward Fishery Program Website

Protocol: Biological Evaluations (1990-077-00) **Proposed Project:**

Area of Inference:

Name	Value	
Latitude, Longitude	45.638639, -121.108806	Sites for this WE: 12



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2012	2/28/2013	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	6/1/2012	2/28/2013	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2013	Inactive	<i>See the Deliverable Specification above</i>

N: 165. Produce Environmental Compliance Documentation

- Title:** Produce Environmental Compliance
- Description:** Produce Environmental Compliance Documentation
- Deliverable Specification:** Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
- Planned Metrics:**
 - * Are herbicides used as part of work performed under this contract?: No
 - * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Determine if contract work could adversely affect Pacific lamprey	4/1/2012	4/30/2012	Inactive	Contractor will review work proposed under this contract and determine the following: 1) Will field work take place in any area where lamprey may be present? (Any tributary or subbasin where anadromous fish exist is also accessible Pacific lamprey habitat.) 2) Are there any stream disturbing activities or instream activities that could adversely impact Pacific lamprey? Examples of activities posing a threat to lamprey may include (this list is not intended to be all-inclusive): aquatic habitat improvements, fish passage improvements, culvert replacements, water diversions, altered management of water flows, dewatering of any portions of streams, or alteration of irrigation practices. If you answer no to EITHER 1 or 2 above, the following does not apply. If the answer is yes to BOTH 1 and 2, the contractor must implement USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (<i>Entosphenus tridentatus</i>) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf (BMPs). By Feb 15 each year, the contractor should report any lamprey observations during the previous calendar year to US Fish and Wildlife Service contacts listed at http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/ . This data should include date, location (river mile or GPS), number of individuals, and life stage. Report the life stage as ammocoete (larval stage with undeveloped eyes, found burrowed in substrate), macrophthalmia (free-swimming juvenile stage with developed eyes) or adult. See page 10 of the BMP document for pictures. This milestone end date should match the last day of any field work that could adversely impact Pacific lamprey, under this contract, or the Feb 15 reporting date, whichever comes later.
B. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2012	4/30/2012	Inactive	Aquatic Invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.coastal.ca.gov/ccbn/bmp-boaters.pdf -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.clr.pdx.edu/publications/files/OR_ANS_Plan.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Montana: http://www.anstaskforce.gov/Montana-FINAL_PLAN.pdf -- Idaho: http://www.idahoag.us/Categories/Environment/InvasiveSpeciesCouncil/documents/Idaho%20Aquatic%20Nuisance%20Species%20Plan.pdf
C. Inspect and, if necessary, wash vehicles and equipment infested with terrestrial invasive species	4/1/2012	4/30/2012	Inactive	Prevent spread of invasive species
D. Complete and document public involvement activities and provide to EC Lead	4/1/2012	4/30/2012	Inactive	Complete and document public involvement activities and provide to EC Lead.
E. Participate in ESA Consultation	4/1/2012	4/30/2012	Inactive	Work may include drafting BA, completing HIP II BO Project Notification Form, providing copy of Section 10, 4(d), or 6 permit, etc.; or submitting Hatchery Genetic Management Plan to BPA for ESA consultation initiation, and providing input for the ensuing consultation.
F. Participate in Cultural/Historic Resource Consultation	4/1/2012	4/30/2012	Inactive	Examples include providing maps and detailed project descriptions, contracting for an archaeological survey, etc.
G. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2012	4/30/2012	Inactive	Obtain/Renew applicable local, state, federal and tribal environmental permits
H. Obtain BPA's EC Lead sign-off that EC requirements are complete	4/1/2012	4/30/2012	Inactive	Obtain BPA's EC Lead sign-off that EC requirements are complete
Deliverable: I. Produce Environmental Compliance Documentation		4/30/2012	Inactive	<i>See the Deliverable Specification above</i>



O: 119. Manage and Administer Projects

Title: Process and pay reward vouchers
Description: Check, process and prepare reward checks for program vouchers for regular catch and catch of tagged fish. Maintain angler database for tiered reward structure and compile and issue IRS Form 1099 to anglers for calendar year 2012.
Deliverable Specification: Submit next year's SOW, Budget, and Property Inventory to the BPA COTR. The SOW should include location information (latitude and longitude) for those work elements that require it. If contractor or contractor's organization takes longer than 30 days to sign the contract, the contractor will need to send this funding package to BPA more than 90 days before the end of the current contract.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/3/2012	1/31/2013	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
B. Accrual - Submit September estimate to BPA	5/3/2012	11/15/2012	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Generally, this should be done by September 10.
Deliverable: C. Funding Package - Submit draft to COTR		1/2/2013	Inactive	<i>See the Deliverable Specification above</i>

P: 190. Remove, Exclude and/or Relocate Animals

Title: Smallmouth Bass/Walleye dam angling at mid-Columbia River projects
Description: Capture, tag and release smallmouth bass and walleye through ODFW dam angling project.
Deliverable Specification: Capture, tag and release smallmouth bass and walleye through ODFW dam angling project.

Planned Metrics: Targeted piscivorous animal: 650
Primary Focal Species: Bass, Smallmouth | Walleye
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2012	4/30/2012	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Conduct dam angling activities for smallmouth bass/walleye	5/1/2012	8/31/2012	Inactive	Capture, tag and release smallmouth bass and walleye through ODFW dam angling project at mid-Columbia River dams.
Deliverable: C. Capture, tag and release smallmouth bass and walleye		9/30/2012	Inactive	<i>See the Deliverable Specification above</i>

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:
<http://www.efw.bpa.gov/IntegratedFWP/InadvertentDiscoveryProcedure.pdf>

Pacific States Marine Fisheries Commission
Northern Pikeminnow Management Program
 Project 1990-077-00, Grant 56795
 April 1, 2012 - March 31, 2013

			OVERALL BUDGET SUMMARY
443A.12	PSMFC	Program Administration	\$ 343,304
443B.12	PSMFC	Program Registration Stations	433,953
443C.12	WDFW	Program Registration Stations	826,307
443D.12	ODFW	Program Evaluation, Compliance and Tagging	760,087
443E.12	PSMFC	Dam Angling	71,223
443E1.12	WDFW	Dam Angling	29,271
443G.12	ODFW	Smallmouth Bass/Walleye Dam Angling	40,954
443N.12	PSMFC	Reward Fund (Rewards, Tournaments, Prizes)	1,330,484
Total Budget			\$ 3,835,583

Northern Pikeminnow Management Program Northern Pikeminnow Administration (PSMFC) Project 1990-077-00, Grant 56795 April 1, 2012 - March 31, 2013					BUDGET SUMMARY 443A.12	
A.	Salary and Wages		\$	153,919		
B.	Personnel Benefits			60,807		
D.	Goods, Supplies and Services			58,703		
E.	Travel Expenses			3,015		
F.	Overhead			66,860		
Total Budget			\$	343,304		
Northern Pikeminnow Administration (PSMFC) Project 1990-077-00, Grant 56795 April 1, 2012 - March 31, 2013					BUDGET DETAIL 443A.12	
1. Personnel						
Salary and Wages		Months	Rate	Total		
	Program Administrator	6	\$ 10,800	\$ 64,800		
	Data Entry Supervisor	6	5,629	33,774		
	Data Entry Technician	6	4,040	24,240		
	Administrative Specialist	5	5,221	26,105		
	Miscellaneous Compensation			5,000		
Total Salary and Wages		23			\$ 153,919	61100
Personnel Benefits						
	Non-medical benefits @		28%	43,097		
	Monthly Medical benefits @		\$ 770	17,710		
Total Benefits					\$ 60,807	62100
2. Operating						
Goods, Supplies and Services				Total		
	Communication Services			\$ 2,500		63130
	Meetings/Workshops			1,100		63400
	Photocopying/Printing			2,250		63460
	Postage and Freight			4,000		63520
	Supplies - durable goods < \$5K			4,350		63730
	Supplies - Office			3,000		63760
	Data Processing fees/Computer Ctr			9,075		63160
	Advertising/Recruiting			8,500		63100
	Insurance			3,000		63220
	Rents/Leases			13,633		63580
	Trade Show/Displays			7,295		63820
Total Goods, Supplies and Services					\$ 58,703	63000
Travel						
	Airfare	3	\$335	\$ 1,005		
	POV Mileage	1,800	\$0.51	\$ 918		
	Lodging (Skamania Co, WA)	6	\$90	\$ 540		
	Per Diem	12	\$46	\$ 552		
Total Travel					\$ 3,015	65100
PSMFC INDIRECT COSTS		12.38%	\$ 276,444	\$ 34,224		
INDIRECT COSTS ON SUBCONTRACTS (except ODFW Dam Angling)		2.02%	#####	\$ 32,636		
					\$ 66,860	67200
Total Budget					\$ 343,304	

Northern Pikeminnow Management Program

Program Registration Station (PSMFC)

Project 1990-077-00, Grant 56795

April 1, 2012 - March 31, 2013

BUDGET SUMMARY

443B.12

	A. Salary and Wages	\$	198,100			
	B. Personnel Benefits		27,734			
	D. Goods, Supplies and Services		57,385			
	E. Travel Expenses		102,929			
	F. Indirect Costs		47,805			
	Total Budget	\$	433,953			

Program Registration Station (PSMFC)				BUDGET DETAIL		
Project 1990-077-00, Grant 56795				443B.12		
April 1, 2012 - March 31, 2013						

1. Personnel						
	Salary and Wages		Months	Rate	Total	
	Fish Tech 1 (PDX)		30	\$ 2,890	\$ 86,700	
	Fish Tech 1 (RUS)		40	\$ 2,785	\$ 111,400	
	Total Salary and Wages		70			\$ 198,100 61100
	Personnel Benefits					
	Non-medical benefits @			14%	27,734	
	Total Benefits					\$ 27,734 62100

2. Operating						
	Goods, Supplies and Services				Total	
	Communication Services				\$ 6,685	63130
	Postage and Freight				600	63520
	Supplies - Field				12,000	63700
	Supplies - Office				2,000	63760
	Training				2,000	63850
	Advertising/Recruiting				1,000	63100
	Printing of Publications				13,000	63550
	Rents/Leases				17,100	63580
	Repairs/Maintenance/Operation				3,000	63610
	Total Goods, Supplies and Services					\$ 57,385 63000
	Travel		Units	Rate	Total	
	POV Mileage		2,100.00	0.51	1,071.00	
	Bridge Toll		450.00	1.00	450.00	
	GSA Lease (Trucks)		72.00	273.00	19,656.00	
	GSA Lease (Render)		12.00	398.00	4,776.00	
	GSA Lease (Vans)		84.00	264.00	22,176.00	
	GSA Mileage (Trucks)		110,000.00	0.25	27,500.00	
	GSA Mileage (Render)		8,000.00	0.45	3,600.00	
	GSA Mileage (Vans)		90,000.00	0.23	20,700.00	
	GSA Fuel surcharges (combined)		1.00	3,000.00	3,000.00	
	Total Travel					\$ 102,929 65100
	PSMFC INDIRECT COSTS		12.38%			\$ 47,805 67200

Total Budget		\$	433,953			
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Northern Pikeminnow Management Program Program Registration Station (WDFW) Subcontract Project 1990-077-00, Grant 56795 April 1, 2012 - March 31, 2013					BUDGET SUMMARY 443C.12	
	A. Pass Thru - Salaries		\$	438,522		
	B. Pass Thru - Employee Benefits			178,082		
	C. Pass Thru - Services/Supplies			46,700		
	D. Pass Thru - Travel			5,716		
	E. Pass Thru - Agency Indirect Costs			157,287		
	Total Budget		\$	826,307		
Program Registration Station (WDFW) Subcontract						
Project 1990-077-00, Grant 56795					BUDGET DETAIL	
April 1, 2012 - March 31, 2013					443C.12	
1. Personnel						
	Salary and Wages	Months	Rate	Total		
	Project Manager	1	\$ 4,860	\$ 4,860		
	Project Leader, Bio III	12	\$ 4,627	55,524		
	Fish Bio II - Pasco	12	\$ 4,088	49,056		
	Sci Tech IV - Mid-River	12	\$ 3,894	46,728	156,168.00	
	Sci Tech II - Vancouver	9	\$ 3,041	\$ 27,369		
	Sci - Tech - Crew leaders	54	\$ 3,041	164,214		
	Sci Tech I	12	\$ 2,600	31,704		
	Sci Tech - Data Entry	9	\$ 3,041	27,369		
	Sci Tech - PIT Tag lead	9	\$ 3,522	31,698	282,354.00	
	Total Pass Thru - Salaries	130			\$ 438,522	71100
	Personnel Benefits					
	Full-year staff		39%	156,168	\$ 60,906	
	Seasonal Staff		41.5%	282,354	\$ 117,177	
	Total Pass Thru - Employee Benefits				\$ 178,082	72100
2. Operating						
	Goods, Supplies and Services			Total		
	Communication Services			\$ 5,400		
	Supplies - Field			\$ 10,800		
	Supplies - Office			\$ 1,500		
	Training			\$ 1,000		
	Insurance			\$ 24,000		
	Repairs/Maintenance/Operation			\$ 4,000		
	Total Pass Thru - Services/Supplies				\$ 46,700	73760
	Travel	Units	Rate	Total		
	POV Mileage	6,000	\$0.51	\$ 3,060		
	Lodging/Per Diem (Skamania Co, WA	16	\$166	\$ 2,656		
	Total Pass Thru - Travel				\$ 5,716	75100
	Pass Thru - Agency Indirect Costs	23.51%	\$ 669,020		\$ 157,287	
	WDFW TOTAL PROJECT COST				\$ 826,307	

NPMP Subcontract Oregon Department of Fish and Wildlife FY 2012-13		Northern Pikeminnow 764003-24				
Project 1990-077-00, Grant 56795						
CATEGORY		AMOUNT				
A. PERSONNEL	Salaries			Wages	OPE	Fringe
(b) (6)						
Seasonal Project Aide (vacant)	3	months @	\$2,113	\$6,339	81.43%	\$5,162
Seasonal Project Aide (vacant)	4	months @	\$2,113	\$8,452	81.43%	\$6,882
Seasonal Project Aide (vacant)	3	months @	\$2,113	\$6,339	81.43%	\$5,162
Seasonal Project Aide (vacant)	4	months @	\$2,113	\$8,452	81.43%	\$6,882
Seasonal Project Aide (vacant)	7	months @	\$2,113	\$14,791	81.43%	\$12,044
Seasonal Project Aide (vacant)	3	months @	\$2,113	\$6,339	81.43%	\$5,162
Seasonal Project Aide (vacant)	3	months @	\$2,113	\$6,339	81.43%	\$5,162
Seasonal Project Aide (vacant)	4	months @	\$2,113	\$8,452	81.43%	\$6,882
Seasonal Project Aide (vacant)	4	month @	\$2,113	\$8,452	81.43%	\$6,882
				\$314,639		\$184,992
Total Personnel						\$499,631
C. SERVICES AND SUPPLIES						
<u>TRAVEL:</u>						
Lodging	380	days @	\$77			\$29,260
Per Diem	400	days @	\$46			\$18,400
Vehicle Rental, sedan	3	months @	\$550			\$1,650
Vehicle Rental, 3/4 ton PU	37	months @	\$600			\$22,200
Vehicle repair and maintenance	10	occurrences @	\$200			\$2,000
Subtotal Travel						\$73,510
<u>SUPPLIES:</u>						
Office Supplies	93	FTE months @	\$12.50			\$1,163
Sampling Equipment	4	boats @	\$500			\$2,000
Rain Gear	3	sets @	\$100			\$300
Data Loggers	3	units @	\$2,222			\$6,666
Boots	3	sets @	\$30			\$90
Tagging Supplies	3	months @	\$300			\$900
Lab Supplies	4	months @	\$250			\$1,000
Boat Supplies	4	months @	\$750			\$3,000
Analytic Software	2	subscript. @	\$1,950			\$3,900
Rite-N-Rain Paper Data Sheets			\$500			\$500
Subtotal Supplies						\$19,519
<u>SERVICES:</u>						
Photocopier and Fax Rent	4	months @	\$300			\$1,200
Northwest Region Utilities						\$1,500
Cellular Phone Service	48	months @	\$20			\$960
Maint., Operation and Repair of Boats	180	days @	\$130			\$23,400
Subtotal Services						\$27,060
Total Services and Supplies						\$120,089
D. DIRECT COST						\$619,720
E. INDIRECT COST						\$140,367
G. TOTAL PROJECT COST (Direct PSMFC Cost)						\$760,087

Northern Pikeminnow Management Program					BUDGET SUMMARY	
NPMP Dam Angling (PSMFC)					443E.12	
Project 1990-077-00, Grant 56795						
April 1, 2012 - March 31, 2013						
	A. Salary and Wages		\$	45,441		
	B. Personnel Benefits			6,362		
	D. Goods, Supplies and Services			6,320		
	E. Travel Expenses			5,254		
	F. Overhead			7,846		
	Total Budget		\$	71,223		
NPMP Dam Angling (PSMFC)					BUDGET DETAIL	
Project 1990-077-00, Grant 56795					443E.12	
April 1, 2012 - March 31, 2013						
1. Personnel						
	Salary and Wages	Months	Rate*	Total		
	Fish Tech 1 (RUS)	17.0	\$ 2,673	\$ 45,441		
	Total Salary and Wages				\$ 45,441	61100
	Personnel Benefits					
	Non-medical benefits @		14%	6,362		
	Total Benefits				\$ 6,362	62100
2. Operating						
	Goods, Supplies and Services			Total		
	Communication Services			\$ 320		63130
	Supplies - Field			\$ 5,600		63700
	Training			\$ 400		63850
	Total Goods, Supplies and Services				\$ 6,320	63000
	Travel	Units	Rate	Total		
	GSA Lease (Truck)	12.00	319.00	3,828.00		
	GSA Mileage (Truck)	4,600.00	0.31	1,426.00		
	Total Travel				\$ 5,254	65100
	PSMFC INDIRECT COSTS	12.38%			\$ 7,846	67200
	Total Budget				\$ 71,223	
	*Based on 2011 wages for dam angling crew (\$15.36/hr)					

**Northern Pikeminnow Management Program
 Dam Angling (WDFW) Subcontract
 Project 1990-077-00, Grant 56795
 April 1, 2012 - March 31, 2013**

**BUDGET SUMMARY
 443E1.12**

	A. Pass Thru - Salaries	\$	13,772			
	B. Pass Thru - Employee Benefits		5,715			
	C. Pass Thru - Services/Supplies		4,212			
	E. Pass Thru - Agency Indirect Costs		5,572			
	Total Budget	\$	29,271			

Dam Angling (WDFW) Subcontract				BUDGET DETAIL		
Project 1990-077-00, Grant 56795					443E1.12	
April 1, 2012 - March 31, 2013						

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1. Personnel

Salary and Wages	Months	Rate	Total		
Sci Tech III - Dam Angler Lead	4	\$ 3,443	\$ 13,772		
Total Pass Thru - Salaries				\$ 13,772	71100
Personnel Benefits					
benefits		41.5%	13,772	\$ 5,715	
Total Pass Thru - Employee Benefits				\$ 5,715	72100

2. Operating

Goods, Supplies and Services			Total		
Supplies - Field			\$ 2,000		
Training			\$ 100		
Insurance			\$ 2,112		
Total Pass Thru - Services/Supplies				\$ 4,212	73760
Pass Thru - Agency Indirect Costs	23.51%	\$ 23,699		\$ 5,572	
WDFW TOTAL PROJECT COST				\$ 29,271	

Northern Pikeminnow Management Program
Smallmouth Bass/Walleye Angling (ODFW) Subcontract
Project 1990-077-00, Grant 56795
 April 1, 2012 - March 31, 2013

BUDGET SUMMARY
 443G.12

	A. Salary and Wages	\$	31,440			
	B. Personnel Benefits		4,402			
	D. Goods, Supplies and Services		600			
	F. Overhead		4,512			
	Total Budget	\$	40,954			

Smallmouth Bass/Walleye Angling (ODFW) Subcontract				BUDGET DETAIL		
Project 1990-077-00, Grant 56795					443G.12	
April 1, 2012 - March 31, 2013						
1. Personnel						
Salary and Wages		Months	Rate	Total		
Fish Tech 1 (RUS)		12.0	\$ 2,620	\$ 31,440		
Total Salary and Wages					\$ 31,440	61100
Personnel Benefits						
Non-medical benefits @			14%	4,402		
Total Benefits					\$ 4,402	62100
2. Operating						
Goods, Supplies and Services				Total		
Training				\$ 600		63850
Total Goods, Supplies and Services					\$ 600	63000
PSMFC INDIRECT COSTS		12.38%			\$ 4,512	67200
Total Budget					\$ 40,954	



Statement of Work Report

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 61037
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$3,559,984 **Perf. Period:** 4/1/2013 - 3/31/2014
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 61037
SOW Validation: Last validated 03/22/2013 with 0 problems, and 0 reviewable items
Contract Documents: [Property Inventory \(03/21/2013\)](#) Pikeminnow program inventory
[Budget - Contract \(03/21/2013\)](#) Pikeminnow Program Overall Budget Summary



Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
John Skidmore	COTR	Bonneville Power Administration	(503) 230-5494 / NA	jtskidmore@bpa.gov	905 NE 11th Ave. Portland OR 97232
Kristi Van Leuven	Contracting Officer	Bonneville Power Administration	(503) 230-3605 / NA	kjvleuven@bpa.gov	P.O Box 3621 Mailstop - NSSP-4 Portland, OR 97208-3621
Jason Sweet	F&W Approver	Bonneville Power Administration	(503) 230-3349 / NA	jcsweet@bpa.gov	
Russell Porter	Contract Manager	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	russell_porter@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413
Brad James	Administrative Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Christine Mallette	Technical Contact	Oregon Department Of Fish and Wildlife	(971) 673-6053 / (976) 736-073	christine.mallette@state.or.us	17330 SE Evelyn Street Clackamas, OR 97015
Pam Kahut	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	pam_kahut@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202-6413
Thomas Rien	Technical Contact	Oregon Department Of Fish and Wildlife	(971) 673-6061 / (971) 673-6073	tom.a.rien@state.or.us	17330 SE Evelyn Street Clackamas OR 97015-
Tucker Jones	Interested Party	Oregon Department Of Fish and Wildlife	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
Erick Van Dyke	Contract Manager	Oregon Department Of Fish and Wildlife	(971) 673-6068 / NA	erick.s.vandyke@state.or.us	
Ashley Deits	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / (503) 595-3232	adeits@psmfc.org	205 S.E. Spokane St., Ste 100 Portland OR 97202
Dan Gambetta	Env. Compliance Lead	Bonneville Power Administration	(503) 230-3493 / NA	dagambetta@bpa.gov	
Randy Fisher	Supervisor	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	randy.fisher@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413

Work Element Table of Contents:

<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$0	(0%)
B : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$27,410	(1 %)



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
C : 99. Outreach and Education - Promotion/Sport Show Outreach		\$15,795	(0 %)
D : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$22,605	(1 %)
E : 132. Produce (Annual) Progress Report - Submit Annual Report for 2012		\$0	(0%)
F : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2013		\$0	(0%)
G : 141. Produce Other Report - BiOp RM&E RPA Calendar Year 2012 and 2013 Reports		\$0	(0%)
H : 158. Mark/Tag Animals - Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$380,975	(11 %)
I : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2013 Sport Reward Fishery Data Collection/Processing	*	\$57,862	(2 %)
J : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,192,776	(34 %)
K : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2013 Sport Reward Fund	*	\$1,146,993	(32 %)
L : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2013 pikeminnow removals on reduction in salmonid predation	*	\$160,672	(5 %)
M : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$208,865	(6 %)
N : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$0	(0%)
O : 119. Manage and Administer Projects - Process and pay reward vouchers		\$246,597	(7 %)
P : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	*	\$99,434	(3 %)
Total:		\$3,559,984	

* Environmental Compliance (EC) needed before work begins.

Contract Description:



The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. The 2013 season will again see a heavy up of the sport fishery rewards implemented during 2004. In 2004, the most pikeminnow were removed in the history of the program (267,000 for a 17% exploitation rate followed by 242,315 for a 19% exploitation rate in 2005; 237,704 for a 17% exploitation rate in 2006, and 191,154 for an exploitation rate of 17% in 2007; 162,025 in 2008 for an exploitation rate of 19.6%; 142,002 for an exploitation rate of 12.8% in 2009; and 173,981 for an exploitation rate of 18.8 % in 2010; 155,312 for an exploitation rate of 15.6% in 2011, and 157,846 for an exploitation rate of 15.9% in 2012). We will not be conducting any dam angling in 2013.

Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA

Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2013 (4/1/2013 - 6/30/2013)	7/1/2013	7/15/2013	Inactive	
B. Jul-Sep 2013 (7/1/2013 - 9/30/2013)	10/1/2013	10/15/2013	Inactive	
C. Oct-Dec 2013 (10/1/2013 - 12/31/2013)	1/1/2014	1/15/2014	Inactive	
D. Final Jan-Mar 2014 (1/1/2014 - 3/31/2014)	3/17/2014	3/31/2014	Inactive	



B: 119. Manage and Administer Projects

Title: Provide Pikeminnow Management Program contractual and fiscal oversight
Description: Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
Deliverable Specification: All administrative tasks shall be fulfilled on time and with quality products. Timely responses to request for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery lags.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Accrual - Submit September estimate to BPA	1/1/2014	3/31/2014	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
B. Administer subcontractor paperwork	1/1/2014	3/31/2014	Inactive	Read all BPA contract terms and conditions include all contract clauses that are required to flow down into subcontracts in preparation for subcontract negotiation. Upload confidential copy of subcontracts to Pisces. Upload is due 30 days from date of subcontractor signature. Email the link to the COTR after upload. (Delete if there are no subcontracts)
C. Submit monthly invoices electronically within 45 days.	1/1/2014	3/31/2014	Inactive	Contractor's Contract Manager should review all charges included in contract invoices to ensure they are allowable, allocable, and consistent with the approved line-item budget. For contracts with subcontracts, invoices and associated supporting backup must be submitted electronically within 90 days of the end of the month in which costs were incurred. Subcontracts should be written to include requirements for timely submission of invoices from the subcontractor. (This milestone should be marked red if more than 30% of the invoices in the reporting period are later than 45 days - 60 days if they have subcontracts).
D. Submit final invoice within 90 days of end of the previous contract to facilitate contract closeout.	6/1/2013	7/1/2013	Inactive	Within 90 days of the last day of the previous contract, the contractor shall issue a final invoice. In instances where an extension to the 90 days to produce the final invoice is required, (e.g., because subcontractors have not invoiced), AND the remaining contract balance is in excess of \$100,000, the contractor shall: 1. review records, 2. estimate all outstanding costs, and 3. provide BPA with a single, cumulative estimate of all completed, but uninvoiced work. This amount will be emailed to FWinvoices@bpa.gov and the COTR (Subject line: Contractor PSMFC, Uninvoiced balance for BPA contract 56795, BPA Project 1990-077-00 is \$XX.XX).
E. Facilitate inputting Cost Share information into Pisces at the Project level.	4/1/2013	3/31/2014	Inactive	Enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners.
Deliverable: F. Fulfill all administrative tasks with quality products and in a timely manner.		3/31/2014	Inactive	<i>See the Deliverable Specification above</i>

C: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Sportsmen Show booths, and program brochure
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsmen Show booths.

Planned Metrics: # of general public reached: 500

Locations: 1
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		9/30/2013	Inactive	<i>See the Deliverable Specification above</i>

D: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations



Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.

Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute salmonid listed stock ratios for weekly reports to NMFS	6/1/2013	3/31/2014	Inactive	Compute ratios of listed stocks for lower and middle Columbia river and the Snake river. Apply these ratios to the weekly salmonid interactions of pikeminnow anglers for the Biological Opinion (B.O.) weekly report to NMFS of pikeminnow catch and salmonid interactions.
B. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2013	9/30/2013	Inactive	Compile weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
C. Report weekly catches of pikeminnows, adult and juvenile salmonids and other game fish to NMF	5/1/2013	9/30/2013	Inactive	Submit the weekly catch report of p keminnows, salmonids and other species to NMFS in accordance with the B.O. Copies are transmitted to all Pikeminnow Program agencies and BPA.
Deliverable: D. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2014	Inactive	<i>See the Deliverable Specification above</i>

E: 132. Produce (Annual) Progress Report

Title: Submit Annual Report for 2012

Description: The annual report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range will be agreed upon by the COTR and the contractor. This may or may not coincide with the contract period. For an ongoing project, an annual report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Annual reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: http://www.efw.bpa.gov/Integrated_Fish_and_Wildlife_Program/technicalreports.aspx.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce/Submit Scientific Findings Report.

Deliverable Specification: Use the attachment tab in Pisces to attach your progress report. Progress reports attached in Pisces will be posted on the web.

Planned Metrics:
 * Start date of reporting period : 4/1/2012
 * End date of reporting period : 12/31/2012

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review progress report format requirements	5/1/2013	6/30/2013	Inactive	Contractor must review formatting requirements before starting the first draft of their report. Please follow the BPA-required format. http://www.efw.bpa.gov/IntegratedFWP/technicalreports.aspx
B. Submit progress report for internal contractor review	7/1/2013	3/31/2014	Inactive	Use this milestone if the annual report requires an internal review before being reviewed externally. Make sure to allow for both technical and policy reviews if necessary.
C. Submit progress report for external review	7/10/2013	3/31/2014	Inactive	Use this milestone if the progress report requires external review.
D. Confirm BPA has posted the progress report	7/1/2013	3/31/2014	Inactive	It usually takes BPA 30-45 days to post the final version of a report. This milestone's end date should therefore be 45 days after the Deliverable milestone. You will receive an email from BPA confirming that your report has been finalized and posted to the web.
Deliverable: E. Attach Progress Report in Pisces		3/31/2014	Inactive	<i>See the Deliverable Specification above</i>



F: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2013

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2013. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://www.efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: Use the attachment tab in Pisces to attach your progress report. Progress reports attached in Pisces will be posted on the web.

Planned Metrics: * Start date of reporting period : 1/1/2013
* End date of reporting period : 12/31/2013

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Confirm BPA has posted the progress report	3/15/2014	3/31/2014	Inactive	It usually takes BPA 30-45 days to post the final version of a report. This milestone's end date should therefore be 45 days after the Deliverable milestone. You will receive an email from BPA confirming that your report has been finalized and posted to the web.
Deliverable: B. Attach Progress Report in Pisces		3/31/2014	Inactive	See the Deliverable Specification above

G: 141. Produce Other Report

Title: BiOp RM&E RPA Calendar Year 2012 and 2013 Reports

Description: Submit BiOp RM&E Report in Taurus for Calendar Year 2012 and 2013. Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, separate BiOp reports are now required to be completed online. If desired, the required information can be prepared in MS Word, and be pasted into Taurus.

The online BiOp RPA report in Taurus (www.cbfish.org) should include the data, analyses, and data management completed by your project by December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the analyses, you will report the preliminary data (# of redds). You do not need to rush your analyses; they may be reported in the subsequent RPA report.

For each RPA, follow the directions in Taurus for each of the three sections and, as appropriate, input graphical or tabular data, accompanied by explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Deliverable Specification: Report has been finalized and uploaded into Taurus (cbfish.org)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Calendar Year RPA Report uploaded to Taurus		3/31/2014	Inactive	See the Deliverable Specification above

H: 158. Mark/Tag Animals

Title: Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals

Description: Collect pikeminnow for tagging with spaghetti tags and Pit Tags for population and evaluation studies for the Northern P keminnow Management Program.

Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.



Planned Metrics: * Primary R, M, and E Focal Area : Systemwide
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Predation

Locations: 1
Primary Focal Species: P keminnow, Northern
Country: US
State: OR
County: SHERMAN
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

NPCC Subbasin: DESCHUTES
HUC5 Watershed: LOWER DESCHUTES RIVER
HUC6 Name:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	4/30/2013	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2013	6/30/2013	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: C. Collect and tag pikeminnow with spaghetti tags and Pit tags for program evaluation studies.		7/15/2013	Inactive	See the Deliverable Specification above

I: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2013 Sport Reward Fishery Data Collection/Processing
Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.
Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.
Planned Metrics: * Primary R, M, and E Focal Area : Systemwide
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Systemwide
Locations: 1
Primary Focal Species: P keminnow, Northern
Country: US
State: OR
County: SHERMAN
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website
Protocol: Predation Modeling (1990-077-00) **Proposed Project:**



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	4/30/2013	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2013	5/31/2013	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Finalize stations and operating times, staff and train registration clerks for the 21 stations	4/1/2013	9/30/2013	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2013 season and their times of operation. Set stations to operate in 2013 and their times of operation to maximize station open times in relation to catch and cost efficiency.
D. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2013	11/15/2013	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
E. Provide program and fishery data to participants and interested parties at the stations	4/1/2013	10/31/2013	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 21 program stations.
Deliverable: F. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/15/2013	Inactive	<i>See the Deliverable Specification above</i>

J: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations

Description: This work element addresses running the 21 registration/creel check stations on the river for the Sport Reward Fishery.

Deliverable Specification: Operate the 21 registration/creel check stations on the Columbia and Snake rivers from May 1, 2013 through September 30, 2013.

Planned Metrics: * # of beavers released: NA
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: P keminnow, Northern

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	4/30/2013	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Operate 21 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2013	9/30/2013	Inactive	Hire, train and supervise the clerks for the 21 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
C. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2013	9/30/2013	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2013	9/30/2013	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		10/15/2013	Inactive	<i>See the Deliverable Specification above</i>

K: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2013 Sport Reward Fund

Description: The reward fund used to pay regular and tag vouchers issued to Sport Reward anglers. The 21 registration/creel stations utilized in the program are entered in the location fields.

Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.

Planned Metrics: * # of beavers released: NA
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook - All Populations | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	4/30/2013	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2013	11/16/2013	Inactive	Manage and pay daily, or every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Sport Reward Fund		11/16/2013	Inactive	<i>See the Deliverable Specification above</i>

L: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2013 pikeminnow removals on reduction in salmonid predation

Description: Determine the exploitation rates for the various sectors of the fishery in 2013. Estimate reductions in salmonid predation related to these rates. Evaluation other predator's compensatory responses to the annual removal of p keminnows.

Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2013 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.

Planned Metrics: * Primary R, M, and E Focal Area : Predation
* Primary R, M, and E Type : Status and Trend Monitoring
* Secondary R, M, and E Type : Status and Trend Monitoring
* Secondary R, M, and E Focal Area : Systemwide

Locations: 1

Primary Focal Species: P keminnow, Northern | Walleye | Bass, Smallmouth



Country: US NPCC Subbasin: DESCHUTES
 State: OR HUC5 Watershed: LOWER DESCHUTES RIVER
 County: SHERMAN HUC6 Name:
 Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)
 Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website
 Protocol: Biological Evaluations (1990-077-00) Proposed Project:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	4/30/2013	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2013	5/31/2013	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Compute 2013 Northern P keminnow exploitation rates by program areas	5/17/2013	1/31/2014	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2013 season and report progress monthly and final end of season exploitation rates for the fishery and program areas.
D. Estimate 2013 reduction in predation over pre-program levels	10/1/2013	2/28/2014	Inactive	Determine salmonid predation reduction update by applying 2013 program data.
E. Examine pikeminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2013	2/16/2014	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
F. Study predator compensatory responses to pikeminnow removals	10/1/2013	2/16/2014	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response or lack thereof to continued removal of Northern pikeminnows.
Deliverable: G. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		2/28/2014	Inactive	See the Deliverable Specification above

M: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries
Description: Monitor p keminnow responses of pikeminnow, walleye and smallmouth bass to the continuing removals of p keminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis.
Deliverable Specification: Evaluate the response of Northern P keminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Planned Metrics:
 * Primary R, M, and E Focal Area : Systemwide
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Area : Systemwide
Locations:
Primary Focal Species: P keminnow, Northern
Country: NPCC Subbasin:
State: HUC5 Watershed:
County: HUC6 Name:
Salmonid ESUs Present:
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website
Protocol: Biological Evaluations (1990-077-00) **Proposed Project:**



Area of Inference: Name Value
 Latitude, Longitude 45.638639, -121.108806

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2013	5/31/2013	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2013	2/28/2014	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2014	Inactive	See the Deliverable Specification above

N: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance
Description: Produce Environmental Compliance Documentation
Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Planned Metrics: * Are herbicides used as part of work performed under this contract?: No
 * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Determine if contract work could adversely affect Pacific lamprey	4/1/2013	4/30/2013	Inactive	Contractor will review work proposed under this contract and determine the following: 1) Will field work take place in any area where lamprey may be present? (Any tributary or subbasin where anadromous fish exist is also accessible Pacific lamprey habitat.) 2) Are there any stream disturbing activities or instream activities that could adversely impact Pacific lamprey? Examples of activities posing a threat to lamprey may include (this list is not intended to be all-inclusive): aquatic habitat improvements, fish passage improvements, culvert replacements, water diversions, altered management of water flows, dewatering of any portions of streams, or alteration of irrigation practices. If you answer no to EITHER 1 or 2 above, the following does not apply. If the answer is yes to BOTH 1 and 2, the contractor must implement USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (Entosphenus tridentatus) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf (BMPs). By Feb 15 each year, the contractor should report any lamprey observations during the previous calendar year to US Fish and Wildlife Service contacts listed at http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/ . This data should include date, location (river mile or GPS), number of individuals, and life stage. Report the life stage as ammocoete (larval stage with undeveloped eyes, found burrowed in substrate), macrophthalmia (free-swimming juvenile stage with developed eyes) or adult. See page 10 of the BMP document for pictures. This milestone end date should match the last day of any field work that could adversely impact Pacific lamprey, under this contract, or the Feb 15 reporting date, whichever comes later.



Milestone Title	Start Date	End Date	Status	Milestone Description
B. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2013	4/15/2013	Inactive	Aquatic invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.coastal.ca.gov/ccbn/bmp-boaters.pdf -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.clr.pdx.edu/publications/files/OR_ANS_Plan.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Montana: http://www.anstaskforce.gov/Montana-FINAL_PLAN.pdf -- Idaho: http://www.idahoag.us/Categories/Environment/InvasiveSpeciesCouncil/documents/Idaho%20Aquatic%20Nuisance%20Species%20Plan.pdf
C. Inspect and, if necessary, wash vehicles and equipment infested with terrestrial invasive species	4/1/2013	4/15/2013	Inactive	Prevent spread of invasive species
D. Complete and document public involvement activities and provide to EC Lead	4/1/2013	4/15/2013	Inactive	Public involvement is any outreach to the public or landowners about specific actions that are proposed. This could be public letters, meetings, newspaper notices, posted notices at local facilities, or information booths at local events.
E. Participate in ESA Consultation	4/1/2013	4/15/2013	Inactive	Work may include drafting BA, completing HIP II BO Project Notification Form, providing copy of Section 10, 4(d), or 6 permit, etc.; or submitting Hatchery Genetic Management Plan to BPA for ESA consultation initiation, and providing input for the ensuing consultation.
F. Participate in Cultural/Historic Resource Consultation	4/1/2013	4/15/2013	Inactive	Examples include providing maps and detailed project descriptions, contracting for an archaeological survey, etc.
G. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2013	4/15/2013	Inactive	Work done to obtain permits such as Sec. 401 or 404 (including RGP process), shoreline, NPDES, or any other required federal, state, or local permits.
H. Obtain BPA's EC Lead sign-off that EC requirements are complete	4/1/2013	4/15/2013	Inactive	The EC? column on the contract SOW tab in Pisces must have a "full moon" for each work element requiring environmental compliance before ground-disturbing implementation of that work element can begin. You will receive verbal or email notification from the EC Lead when a work element or, in rare instances, a portion of a work element is approved for implementation.
I. Use Best Management Practices to stabilize soils and prevent spread of noxious weeds	4/1/2013	4/15/2013	Inactive	Use applicable BMPs to retain existing vegetation and achieve re-establishment of vegetation in disturbed areas to at least 70% of pre-disturbance levels. Visit chapter 7.3 of http://www.ecy.wa.gov/pubs/0410076.pdf for BMPs to consider for construction contracts and http://wdfw.wa.gov/publications/01330/wdfw01330.pdf for guidance on re-vegetation in the Columbia River Basin.
Deliverable: J. Produce Environmental Compliance Documentation		4/30/2013	Inactive	See the Deliverable Specification above

O: 119. Manage and Administer Projects

- Title:** Process and pay reward vouchers
- Description:** Check, process and prepare reward checks for program vouchers for regular catch and catch of tagged fish. Maintain angler database for tiered reward structure and compile and issue IRS Form 1099 to anglers for calendar year 2013.
- Deliverable Specification:** All administrative tasks shall be fulfilled on time and with quality products. Timely responses to request for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery lags.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. #1 Funding package- Review current SOW/Budget with BPA's Environmental Compliance (EC) Lead and COTR	4/1/2013	5/1/2013	Inactive	Review Environmental Compliance and work anticipated during the following year, paying particular attention to actions anticipated in the next SOW that do not yet have EC approval in the current SOW. Milestone 240-211 days before the contract end date.



Milestone Title	Start Date	End Date	Status	Milestone Description
B. #2 Funding Package - Conduct internal review (e.g., with Supervisor) of draft SOW and budget.	4/1/2013	5/1/2013	Inactive	Submit next year's SOW, Budget and inventory for internal contractor review before submitting to BPA. Milestone 210-185 days before the contract end date.
C. #3 Funding Package - Attach budget and inventory documents then click Submit in SOW tab.	4/1/2013	5/1/2013	Inactive	The SOW should include location, planned metrics, and focal species information (species benefited) for those work elements that require it. If contractor or contractor's organization takes longer than 30 days to sign the contract, the contractor will need to send this funding package to BPA more than 181 days before the end of the current contract. Milestone begins and ends on approximately day 180—actually on the last day of the month #6 for 12-month contracts.
D. #4 Funding Package - Use Pisces to revise and finalize the new package (SOW, Budget & Inventory).	4/1/2013	5/1/2013	Inactive	The contractor is expected to make COTR-requested changes within 15 days of receiving feedback from the COTR, who will coordinate BPA's internal review. This includes re-uploading of Excel documents (budget and inventory) or re-submitting the SOW. In order to do this, the funding package must be approved by the COTR in the Workflow tab in Pisces a minimum of 130 days before the contract starts. (Milestone 179-120 days before contract end.)
E. #5 Funding Package - Respond to any Contracting Officer's requests for revisions within 7 days.	4/1/2013	5/1/2013	Inactive	Contractor must respond to and revise documents within 7 days of CO request. (as communicated through the COTR or directly from the CO, with COTR concurrence). Milestone 119-90 days before the contract end date.
F. #6 Funding Package – Contractor returns signed contract to BPA's Contracting Officer.	4/1/2013	5/1/2013	Inactive	The contractor is required to respond to the CO and COTR indicating any problems within 20 days, or return the signed contract to the BPA Contracting Officer (CO) within 30 days (Milestone begins 89 and ends 60 days before contract end.)
G. #7 Funding Package- Set up accounting for subsequent contract. Write subcontracts.	4/1/2013	4/30/2013	Inactive	Contractor's administrative personnel commences internal work to assist contract manager. Accounting Office will set up cost codes for subsequent contract and notify the contractor's contract manager. Subcontracting personnel set up and offer subcontracts (59-1 days before the new contract start date.)
H. Accrual - Submit September estimate to BPA	8/1/2013	9/30/2013	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
I. Administer subcontractor paperwork	4/1/2013	5/15/2013	Inactive	Read all BPA contract terms and conditions include all contract clauses that are required to flow down into subcontracts in preparation for subcontract negotiation. Upload confidential copy of subcontracts to Pisces. Upload is due 30 days from date of subcontractor signature. Email the link to the COTR after upload. (Delete if there are no subcontracts)
J. Submit monthly invoices electronically within 45 days.	5/1/2013	3/31/2014	Inactive	Contractor's Contract Manager should review all charges included in contract invoices to ensure they are allowable, allocable, and consistent with the approved line-item budget. For contracts with subcontracts, invoices and associated supporting backup must be submitted electronically within 90 days of the end of the month in which costs were incurred. Subcontracts should be written to include requirements for timely submission of invoices from the subcontractor. (This milestone should be marked red if more than 30% of the invoices in the reporting period are later than 45 days - 60 days if they have subcontracts).
K. Submit final invoice within 90 days of end of the previous contract to facilitate contract closeout.	4/1/2013	7/1/2013	Inactive	Within 90 days of the last day of the previous contract, the contractor shall issue a final invoice. In instances where an extension to the 90 days to produce the final invoice is required, (e.g., because subcontractors have not invoiced), AND the remaining contract balance is in excess of \$100,000, the contractor shall: 1. review records, 2. estimate all outstanding costs, and 3. provide BPA with a single, cumulative estimate of all completed, but uninvoiced work. This amount will be emailed to FWinvoices@bpa.gov and the COTR (Subject line: Contractor QQQQ, Uninvoiced balance for BPA contract YYY, BPA Project ZZZZ is \$XX.XX. (Comment to COTR: COTR to fill in Q; Y and Z, and delete this comment out of this milestone. Furthermore, if there is no previous contract replace this entire Milestone Description with: N/A – no previous contract)
L. Inventory – Mark/Tag all equipment purchased during the contract.	4/1/2013	3/31/2014	Inactive	Governments have required procedures for what does, and does not have to be tagged. If you are not a government, please follow requirements in the standardized language of your contract and with any additional clarity as provided by BPA's Contracting Officer if you have questions.)



Milestone Title	Start Date	End Date	Status	Milestone Description
M. Facilitate inputting Cost Share information into Pisces at the Project level.	4/1/2013	3/31/2014	Inactive	(COTR- Delete the options (a-c) that do not apply to this contractor- You should only have one option left, either a; b1 and b2; or c) a) If you are the lone contractor under this contract, enter previous federal FY's Cost Share information on the Project's Cost Share tab by Nov 15.(b1) If there are multiple contractors under this project, and you are the lead project Proponent, solicit cost share information for the previous federal FY from project partners by Oct 1. (b2) Enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners. (c) If there are multiple contractors under this project, and you are not the lead project Proponent, email federal FY Cost Share information for your contract to the lead contractor by Nov 1. (Milestone starts Oct 1 and ends on Nov 1 for option a, and Nov 15 for options b and c)
N. E-waste disposal in accordance with state and local jurisdiction, laws and policies	4/1/2013	3/31/2014	Inactive	Confirm that adequate waste identification and collection procedures are in place and proper disposal practices are followed according to your governmental policy. If you do not have a policy, please contact your CO and/or COTR for guidance. Purpose is to keep hazardous materials from entering the normal waste stream, becoming land-fill, or being boot-logged into unregulated reprocessing and/or metals extraction. E-Waste usually includes: batteries, light ballasts, fluorescent tubes and bulbs, modems, routers, computers and all equipment with electronic components. For current EPA guidance, please see: http://www.epa.gov/osw/conservation/materials/ecycling/rules.htm
O. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/3/2013	1/31/2014	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
Deliverable: P. Fulfill all administrative tasks with quality products and in a timely manner.		3/31/2014	Inactive	<i>See the Deliverable Specification above</i>

P: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams

Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for p keminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May through August, 2013.

Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1, 2013 - August 31, 2013

Planned Metrics: * # of beavers released: 0
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 2

Primary Focal Species: P keminnow, Northern

Country: US **NPCC Subbasin:** Multiple

State: WA **HUC5 Watershed:** Multiple

County: KLINKITAT | KLINKITAT **HUC6 Name:**

Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2013	9/30/2013	Inactive	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
Deliverable: B. Dam Angling at The Dalles and John Day dams.		8/31/2013	Inactive	<i>See the Deliverable Specification above</i>

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:



<http://www.efw.bpa.gov/IntegratedFWP/InadvertentDiscoveryProcedure.pdf>

			OVERALL BUDGET SUMMARY
443A.13	PSMFC	Program Administration	\$ 312,407
443B.13	PSMFC	Program Registration Stations	380,730
443C.13	WDFW	Program Registration Stations	869,908
443D.13	ODFW	Program Evaluation, Compliance and Tagging	750,509
443E.13	PSMFC	Dam Angling	67,680
443E1.13	WDFW	Dam Angling	31,757
443N.13	PSMFC	Reward Fund (Rewards, Tournaments, Prizes)	1,146,993
Total Budget			\$ 3,559,984

Pacific States Marine Fisheries Commission
Northern Pikeminnow Management Program
 Project 1990-077-00, Grant 61037
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Program Administration (PSMFC)					BUDGET SUMMARY	
					443A.13	
A. Salary and Wages	\$	155,360				
B. Personnel Benefits		58,405				
D. Goods, Supplies and Services		58,703				
E. Travel Expenses		3,096				
F. Overhead		36,843				
Total Budget	\$	312,407				
Program Administration (PSMFC)					BUDGET DETAIL	
					443A.13	
1. Personnel						
Salary and Wages		Months	Rate	Total		
Program Administrator		6	\$ 11,124	\$ 66,744		
Data Entry Supervisor		6	5,581	33,486		
Data Entry Technician		6	4,085	24,510		
Administrative Specialist		5	5,124	25,620		
Miscellaneous Compensation				5,000		
Total Salary and Wages		23			\$ 155,360	61100
Personnel Benefits						
Non-medical benefits @			28%	43,501		
Monthly Medical benefits @			\$ 648	14,904		
Total Benefits					\$ 58,405	62100
2. Operating						
Goods, Supplies and Services				Total		
Communication Services				\$ 2,500		63130
Meetings/Workshops				1,100		63400
Photocopying/Printing				2,250		63460
Postage and Freight				4,000		63520
Supplies - durable goods < \$5K				4,350		63730
Supplies - Office				3,000		63760
Data Processing fees/Computer Ctr				9,075		63160
Advertising/Recruiting				10,000		63100
Insurance - All vehicle liability				3,000		63220
Rents/Leases				13,633		63580
Trade Show/Displays				5,795		63820
Total Goods, Supplies and Services					\$ 58,703	63000

Travel	Units	Rate	Total		
Airfare	3	\$335	\$ 1,005		
POV Mileage	1,800	\$0.555	\$ 999		
Lodging - Skamania	6	\$90	\$ 540		
Per Diem	12	\$46	\$ 552		
Total Travel				\$ 3,096	<i>65100</i>
PSMFC INDIRECT COSTS	13.37%			\$ 36,843	<i>67200</i>
Total Budget				\$ 312,407	

Pacific States Marine Fisheries Commission
Northern Pikeminnow Management Program
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Program Registration Stations (PSMFC)		BUDGET SUMMARY			
		443B.13			
A.	Salary and Wages	\$	155,340		
B.	Personnel Benefits		21,748		
D.	Goods, Supplies and Services		56,560		
E.	Travel Expenses		102,182		
F.	Indirect Costs		44,900		
Total Budget		\$	380,730		
Program Registration Stations (PSMFC)		BUDGET DETAIL			
		443B.13			
1. Personnel					
	Salary and Wages	Months	Rate	Total	
	Fish Tech 1 (PDX)	18	\$ 2,948	\$ 53,064	
	Fish Tech 1 (RUS)	36	\$ 2,841	\$ 102,276	
	Total Salary and Wages	54			\$ 155,340 61100
	Personnel Benefits				
	Non-medical benefits @		14%	21,748	
	Total Benefits				\$ 21,748 62100
2. Operating					
	Goods, Supplies and Services			Total	
	Communication Services			\$ 5,860	63130
	Postage and Freight			600	63520
	Supplies - Field			12,000	63700
	Supplies - Office			2,000	63760
	Training			2,000	63850
	Advertising/Recruiting			1,000	63100
	Printing of Publications			13,000	63550
	Rents/Leases			17,100	63580
	Repairs/Maintenance/Operation			3,000	63610
	Total Goods, Supplies and Services			\$ 56,560	63000
	Travel	Units	Rate	Total	
	POV Mileage	2,100.00	0.555	1,165.50	
	Bridge Toll	450.00	1.00	450.00	
	GSA Lease (Trucks)	84.00	273.00	22,932.00	
	GSA Lease (Render)	12.00	398.00	4,776.00	
	GSA Lease (Vans)	72.00	264.00	19,008.00	
	GSA Mileage (Trucks)	120,000.00	0.25	30,000.00	
	GSA Mileage (Render)	8,000.00	0.45	3,600.00	
	GSA Mileage (Vans)	75,000.00	0.23	17,250.00	
	GSA Fuel surcharges (combined)	1.00	3,000.00	3,000.00	
	Total Travel			\$ 102,182	65100
	PSMFC INDIRECT COSTS	13.37%		\$ 44,900	67200
Total Budget				\$ 380,730	

Pacific States Marine Fisheries Commission
Northern Pikeminnow Management Program
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Program Registration Stations (WDFW)						BUDGET SUMMARY	
						443C.13	
A.	Pass Thru - Salaries		\$	438,247			
B.	Pass Thru - Employee Benefits			180,940			
C.	Pass Thru - Services/Supplies			45,700			
D.	Pass Thru - Travel			6,046			
E.	Pass Thru - Agency Indirect Costs			190,277			
F.	PSMFC Admin Fee			8,698			
Total Budget			\$	869,908			
Program Registration Stations (WDFW)						BUDGET DETAIL	
						443C.13	
1. Personnel							
Salary and Wages		Months	Rate	Total			
	Project Manager	1	\$ 4,860	\$ 4,860			
	Project Leader, Bio III	12	\$ 4,627	55,524			
	Fish Bio II - Pasco	12	\$ 4,088	49,056			
	Sci Tech IV - Mid-River	12	\$ 3,894	46,728	156,168.00		
	Sci Tech II - Vancouver	9	\$ 3,041	\$ 27,369			
	Sci - Tech - Crew leaders	50	\$ 3,041	152,050			
	Sci Tech I	16.5	\$ 2,642	43,593			
	Sci Tech - Data Entry	9	\$ 3,041	27,369			
	Sci Tech - PIT Tag lead	9	\$ 3,522	31,698	282,079.00		
Total Pass Thru - Salaries		131			\$ 438,247		<i>71100</i>
Personnel Benefits							
	Full-year staff		40%	156,168	\$ 62,467		
	Seasonal Staff		42%	282,079	\$ 118,473		
Total Pass Thru - Employee Benefits					\$ 180,940		<i>72100</i>
2. Operating							
Goods, Supplies and Services				Total			
	Communication Services			\$ 5,400			
	Supplies - Field			\$ 10,800			
	Supplies - Office			\$ 1,500			
	Training			\$ 1,000			
	Insurance - All vehicle liability			\$ 24,000			
	Repairs/Maintenance/Operation			\$ 3,000			
Total Pass Thru - Services/Supplies					\$ 45,700		<i>73760</i>

		Units	Rate	Total		
Travel						
	POV Mileage	6,000	\$0.565	\$ 3,390		
	Lodging/Per Diem - Skamania	16	\$166	\$ 2,656		
	Total Pass Thru - Travel				\$ 6,046	<i>75100</i>
	Pass Thru - Agency Indirect Costs	28.36%	\$670,933		\$ 190,277	
	WDFW TOTAL PROJECT COST				\$ 861,210	
	PSMFC ADMINISTRATIVE COSTS	1.01%			\$ 8,698	<i>67100</i>
	Total Budget				\$ 869,908	

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Northern Pikeminnow Management Program
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Program Evaluation, Compliance and Tagging (ODFW)				BUDGET SUMMARY	
				443D.13	
A. Pass Thru - Salaries	\$	315,550			
B. Pass Thru - Employee Benefits		200,207			
C. Pass Thru - Services/Supplies		22,898			
D. Pass Thru - Travel		67,880			
E. Pass Thru - Agency Indirect Costs		136,470			
F. PSMFC Admin Fee		7,504			
Total Budget	\$	750,509			
Program Evaluation, Compliance and Tagging (ODFW)				BUDGET DETAIL	
				443D.13	
1. Personnel					
Salary and Wages		Months	Rate	Total	
(b) (6)					
EBA Seasonal (2820860)		3	\$ 2,415	\$ 7,245	
EBA Seasonal (0507122)		4	\$ 2,352	\$ 9,408	
EBA Seasonal (2820880)		3	\$ 2,415	\$ 7,245	
EBA Seasonal (2820872)		4	\$ 2,415	\$ 9,660	
EBA Seasonal (2820865)		4	\$ 2,415	\$ 9,660	
EBA Seasonal (2820868)		3	\$ 2,352	\$ 7,056	
EBA Seasonal (2820874)		3	\$ 2,352	\$ 7,056	
EBA Seasonal (2820876)		4	\$ 2,352	\$ 9,408	
EBA Seasonal (2820879)		4	\$ 2,352	\$ 9,408	
Total Pass Thru - Salaries		89		\$ 315,550	71100
Personnel Benefits					
(b) (6)					
EBA Seasonals		76,146	82.92%	\$ 63,140	
Total Pass Thru - Employee Benefits				\$ 200,207	72100

2. Operating					
		Units	Rate	Total	
Goods, Supplies and Services					
	Communication Services	48	\$ 20	\$ 960	
	Photocopying/Printing	5	\$ 300	\$ 1,500	
	Software	2	1900	\$ 3,800	
	Supplies - Field			\$ 6,408	
	Supplies - Office	60.5	\$ 10	\$ 605	
	Rents/Leases			\$ 1,500	
	Repairs/Maintenance/Operation			\$ 8,125	
Total Pass Thru - Services/Supplies				\$ 22,898	73760
Travel					
	Lodging	370	\$ 77	\$ 28,490	
	Per Diem	390	\$ 46	\$ 17,940	
	Vehicle rental - sedan	3	\$ 550	\$ 1,650	
	Vehicle rental - 3/4 ton pickup	33	\$ 600	\$ 19,800	
Total Pass Thru - Travel				\$ 67,880	75100
Pass Thru - Agency Indirect Costs		22.50%	\$606,535	\$ 136,470	
WDFW TOTAL PROJECT COST				\$ 743,005	
PSMFC ADMINISTRATIVE COSTS		1.01%		\$ 7,504	67100
Total Budget				\$ 750,509	

Pacific States Marine Fisheries Commission
Northern Pikeminnow Management Program
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NPMP Dam Angling (PSMFC) April 1, 2013 - March 31, 2014						BUDGET SUMMARY 443E.13	
A.	Salary and Wages	\$	43,632				
B.	Personnel Benefits		6,108				
D.	Goods, Supplies and Services		4,704				
E.	Travel Expenses		5,254				
F.	Overhead		7,982				
Total Budget		\$	67,680				
NPMP Dam Angling (PSMFC) April 1, 2013 - March 31, 2014						BUDGET DETAIL 443E.13	
1. Personnel							
Salary and Wages			Months	Rate*	Total		
	Fish Tech 1 (RUS)		16.0	\$ 2,727	\$ 43,632		
Total Salary and Wages						\$ 43,632	61100
Personnel Benefits							
	Non-medical benefits @			14%	6,108		
Total Benefits						\$ 6,108	62100
2. Operating							
Goods, Supplies and Services					Total		
	Communication Services				\$ 320		63130
	Supplies - Field				\$ 4,084		63700
	Training				\$ 300		63850
Total Goods, Supplies and Services						\$ 4,704	63000
Travel			Units	Rate	Total		
	GSA Lease (Truck)		12.00	319.00	3,828.00		
	GSA Mileage (Truck)		4,600.00	0.31	1,426.00		
Total Travel						\$ 5,254	65100
PSMFC INDIRECT COSTS			13.37%			\$ 7,982	67200
Total Budget						\$ 67,680	
*Based on 2012 wages for dam angling crew (\$15.36/hr) plus 2% increase							

Pacific States Marine Fisheries Commission
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Dam Angling (WDFW)						BUDGET SUMMARY	
						443E1.13	
A.	Pass Thru - Salaries		\$	14,969			
B.	Pass Thru - Employee Benefits			6,212			
C.	Pass Thru - Services/Supplies			3,312			
E.	Pass Thru - Agency Indirect Costs			6,946			
F.	PSMFC Admin Fee			318			
Total Budget			\$	31,757			
Dam Angling (WDFW)						BUDGET DETAIL	
						443E1.13	
1. Personnel							
	Salary and Wages	Months	Rate	Total			
	Sci Tech III - Dam Angler Lead	4	\$ 3,522	\$ 14,969			
	Total Pass Thru - Salaries				\$ 14,969		71100
	Personnel Benefits						
	benefits		41.5%	14,969	\$ 6,212		
	Total Pass Thru - Employee Benefits				\$ 6,212		72100
2. Operating							
	Goods, Supplies and Services			Total			
	Supplies - Field			\$ 1,100			
	Training			\$ 100			
	Insurance - All vehicle liability			\$ 2,112			
	Total Pass Thru - Services/Supplies				\$ 3,312		73760
	Pass Thru - Agency Indirect Costs	28.36%	\$ 24,493		\$ 6,946		
	WDFW TOTAL PROJECT COST				\$ 31,439		
	PSMFC ADMINISTRATIVE COSTS	1.01%			\$ 318		67100
Total Budget					\$ 31,757		

Pacific States Marine Fisheries Comission Northern Pikeminnow Management Program Project 1990-077-00, Grant 61037 April 1, 2013 - March 31, 2014			
Northern Pikeminnow Management Program April 1, 2012 - March 31, 2013			443N.13 BUDGET SUMMARY
443N.13	PSMFC	Reward Fund (Rewards, Tournaments, Prizes)	\$ 1,146,993
Total Budget			\$ 1,146,993



Statement of Work Report

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 64365
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$3,820,499 **Perf. Period:** 4/1/2014 - 3/31/2015
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 64365
SOW Validation: Last validated 01/14/2014 with 0 problems, and 0 reviewable items
Contract Documents: [Property Inventory \(01/13/2014\)](#) Northern Pikeminnow Inventroy
[Budget - Contract \(01/09/2014\)](#) Program Summary Budgets



Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
Kristi Van Leuven	Contracting Officer	Bonneville Power Administration	(503) 230-3605 / NA	kjvleuven@bpa.gov	P.O Box 3621 Mailstop - NSSP-4 Portland, OR 97208-3621
Peter Lofy	F&W Approver	Bonneville Power Administration	(503) 230-4193 / (503) 230-4563	ptlofy@bpa.gov	905 NE 11th Ave. Portland OR 97232
Brad James	Administrative Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Christine Mallette	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6053 / (976) 736-073	christine.mallette@state.or.us	17330 SE Evelyn Street Clackamas, OR 97015
Pam Kahut	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	pam_kahut@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202-6413
Thomas Rien	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6061 / (971) 673-6073	tom.a.rien@state.or.us	17330 SE Evelyn Street Clackamas OR 97015-
Tucker Jones	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
Erick Van Dyke	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6068 / NA	erick.s.vandyke@state.or.us	
Dan Gambetta	Env. Compliance Lead	Bonneville Power Administration	(503) 230-3493 / NA	dagambetta@bpa.gov	
Randy Fisher	Supervisor	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	randy.fisher@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413
David Roberts	COTR	Bonneville Power Administration	(503) 230-4511 / (503) 230-4564	daroberts@bpa.gov	905 NE 11th Ave Mailstop KEWU-4 Portland OR 97232
Steve Williams	Contract Manager	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	swilliams@psmfc.org	
Catherine AISheikhly	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3224 / NA	kalsheikhly@psmfc.org	

Work Element Table of Contents:

<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$2,000	(0 %)
B : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$26,205	(1 %)



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
C : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$21,612	(1 %)
D : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$1,000	(0 %)
E : 99. Outreach and Education - Promotion/Sport Show Outreach		\$15,100	(0 %)
F : 158. Mark/Tag Animals - Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$419,850	(11 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2013 Sport Reward Fishery Data Collection/Processing	*	\$73,214	(2 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,223,465	(32 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2013 Sport Reward Fund	*	\$1,269,664	(33 %)
J : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2013 pikeminnow removals on reduction in salmonid predation	*	\$181,708	(5 %)
K : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$236,210	(6 %)
L : 119. Manage and Administer Projects - Process and pay reward vouchers		\$234,914	(6 %)
M : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	*	\$107,557	(3 %)
N : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2013		\$2,000	(0 %)
O : 141. Produce Other Report - Submit BiOp RPA Report for calendar year 2013		\$2,000	(0 %)
P : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2014		\$2,000	(0 %)
Q : 141. Produce Other Report - Submit BiOp RPA Report for calendar year 2014		\$2,000	(0 %)
Total:		\$3,820,499	

* Environmental Compliance (EC) needed before work begins.

Contract Description:



The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. In 2004, the most pikeminnow were removed in the history of the program (267,000 for a 17% exploitation rate followed by 242,315 for a 19% exploitation rate in 2005; 237,704 for a 17% exploitation rate in 2006, and 191,154 for an exploitation rate of 17% in 2007; 162,025 in 2008 for an exploitation rate of 19.6%; 142,002 for an exploitation rate of 12.8% in 2009; and 173,981 for an exploitation rate of 18.8 % in 2010; 155,312 for an exploitation rate of 15.6% in 2011, 157,846 for an exploitation rate of 15.9% in 2012; and 161,401 for and exploitation rate of 10.8% in 2013). We will be conducting dam angling in 2014.

Statement of Work Report

Work Element Details

A: 165. Produce Environmental Compliance Documentation

Title:	Produce Environmental Compliance
Description:	Produce Environmental Compliance Documentation
Deliverable Specification:	Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Planned Metrics:	* Are herbicides used as part of work performed under this contract?: No * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Determine if contract work could adversely affect Pacific lamprey	4/1/2014	4/30/2014	Inactive	
B. Report lamprey observation and catch data to USFWS	5/31/2014	10/31/2014	Inactive	
C. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2014	7/31/2014	Inactive	Aquatic invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.coastal.ca.gov/ccbn/bmp-boaters.pdf -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.clr.pdx.edu/publications/files/OR_ANS_Plan.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Montana: http://www.anstaskforce.gov/Montana-FINAL_PLAN.pdf -- Idaho: http://www.idahoag.us/Categories/Environment/InvasiveSpeciesCouncil/documents/Idaho%20Aquatic%20Nuisance%20Species%20Plan.pdf
D. Obtain BPA's EC Lead sign-off that EC requirements are complete	4/1/2014	4/30/2014	Inactive	The EC? column on the contract SOW tab in Pisces must have a "full moon" for each work element requiring environmental compliance before ground-disturbing implementation of that work element can begin. You will receive verbal or email notification from the EC Lead when a work element or, in rare instances, a portion of a work element is approved for implementation.
Deliverable: E. Produce Environmental Compliance Documentation		4/30/2014	Inactive	<i>See the Deliverable Specification above</i>

B: 119. Manage and Administer Projects

- Title:** Provide Pikeminnow Management Program contractual and fiscal oversight
- Description:** Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
- Deliverable Specification:** All administrative tasks shall be fulfilled on time and with quality products. Timely responses to requests for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery is expected.



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Begin drafting contract renewal documents and conduct internal review as needed	11/1/2014	11/30/2014	Inactive	Your statement of work, line-item budget, and (if required) property inventory for your next contract are due to BPA at least 5 months prior to the contract start date (longer if your internal processes require more time to get the contract signed and in place prior to the start date).
B. Submit contract renewal package (SOW, Excel budget, property inventory) to BPA COTR	12/1/2014	12/31/2014	Inactive	Once your statement of work (SOW) in Pisces is complete, and you have attached your line-item budget (LIB) and property inventory (PI) (if required), click the "Submit" button on the SOW tab to notify your COTR the package is ready for review.
C. Address comments and revise SOW, LIB, and PI as needed to get BPA manager approval	1/2/2015	1/15/2015	Inactive	Once your COTR and his or her BPA manager have reviewed your contract renewal package and returned any comments to you, you will need to provide responses and changes as needed to achieve approval from the BPA manager, who will then forward the package to the Contracting Officer. This should be completed at least two months prior to the next contract start date, but may need to be 3 or 4 months depending on your internal processing time for contract signatures. If you have subcontracts that need to be signed prior to the contract start, it should be a minimum of 4 months.
D. Accrual - Submit September estimate to BPA	9/1/2014	9/10/2014	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
E. Facilitate inputting Cost Share information into Pisces at the Project level	10/1/2014	11/15/2014	Inactive	If there are multiple contractors under this project, and you are the lead project Proponent, solicit cost share information for the previous federal FY from project partners and enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners.
Deliverable: F. All administrative tasks fulfilled with timely quality products		3/31/2015	Inactive	<i>See the Deliverable Specification above</i>

C: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations

Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.

Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute salmonid listed stock ratios for weekly reports to NMFS	6/1/2014	3/31/2015	Inactive	Compute ratios of listed stocks for lower and middle Columbia river and the Snake river. Apply these ratios to the weekly salmonid interactions of pikeminnow anglers for the Biological Opinion (B.O.). weekly report to NMFS of pikeminnow catch and salmonid interactions. This may be modified for 2014 depending on the final acceptance and directives in the Biological Opinion by the federal court.
B. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2014	9/30/2014	Inactive	Compile weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
C. Report weekly catches of pikeminnows, adult and juvenile salmonids and other game fish to NMF	5/1/2014	10/31/2014	Inactive	Submit the weekly catch report of p keminnows, salmonids and other species to NMFS in accordance with the B.O. Copies are transmitted to all Pikeminnow Program agencies and BPA.
Deliverable: D. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2015	Inactive	<i>See the Deliverable Specification above</i>

D: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA



Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2014 (4/1/2014 - 6/30/2014)	7/1/2014	7/15/2014	Inactive	
B. Jul-Sep 2014 (7/1/2014 - 9/30/2014)	10/1/2014	10/15/2014	Inactive	
C. Oct-Dec 2014 (10/1/2014 - 12/31/2014)	1/1/2015	1/15/2015	Inactive	
D. Final Jan-Mar 2015 (1/1/2015 - 3/31/2015)	3/17/2015	3/31/2015	Inactive	

E: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Sportsman's Show booths, and program brochure. This will be done partially under a subcontract.
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths.
Planned Metrics: # of general public reached: 500
Locations: 1
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		9/30/2014	Inactive	<i>See the Deliverable Specification above</i>

F: 158. Mark/Tag Animals

Title: Mark and Pit Tag Northern pikeminnows system-wide for evaluation of program goals
Description: Collect pikeminnow for tagging with spaghetti tags and Pit Tags for population and evaluation studies for the Northern P keminnow Management Program. This will be done under a subcontract.
Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.
Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Predation
- * # fish tagged with CWT: 0
- * # fish tagged with PIT: 900
- * # fish marked with ad clip: 0
- * # fish tagged with acoustic tags: 0
- * # fish tagged with radio tags: 0
- * # fish marked with scute removal: 0
- * # fish marked by otolith: 0
- * # of "other" tag/marks applied to fish: 0

Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2014	7/15/2014	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: C. Collect and tag pikeminnow with spaghetti tags and Pit tags for program evaluation studies.		7/15/2014	Inactive	<i>See the Deliverable Specification above</i>

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2013 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Multiple Strategies

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program Website

Protocol: Predation Modeling (1990-077-00) v1.0

Protocol Owner: Russell Porter **Protocol State:** Draft



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2014	4/30/2014	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Finalize stations and operating times, staff and train registration clerks for the 21 stations	4/1/2014	9/30/2014	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2014 season and their times of operation. Set stations to operate in 2014 and their times of operation to maximize station open times in relation to catch and cost efficiency.
D. Provide program and fishery data to participants and interested parties at the stations	4/1/2014	10/31/2014	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 21 program stations.
E. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2014	11/15/2014	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: F. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/15/2014	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations

Description: This work element addresses running the 21 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.

Deliverable Specification: Operate the 21 registration/creel check stations on the Columbia and Snake rivers from May 1, 2014 through September 30, 2014

Planned Metrics: * # of beavers released: 0
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2014	9/30/2014	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 21 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2014	9/30/2014	Inactive	Hire, train and supervise the clerks for the 21 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2014	9/30/2014	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		10/15/2014	Inactive	<i>See the Deliverable Specification above</i>

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2013 Sport Reward Fund
Description: The reward fund used to pay regular and tag vouchers issued to Sport Reward anglers. The 21 registration/creel stations utilized in the program are entered in the location fields.
Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.
Planned Metrics: * # of beavers released: 0
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook - All Populations | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations | Chum - Columbia River ESU
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this predation related to these rates. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2014	11/15/2014	Inactive	Manage and pay daily, or every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Sport Reward Fund		11/15/2014	Inactive	<i>See the Deliverable Specification above</i>

J: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2013 pikeminnow removals on reduction in salmonid predation
Description: Determine the exploitation rates for the various sectors of the fishery in 2013. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of p keminnows. This will be done under a subcontract.
Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2013 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.
Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
* Primary R, M, and E Type : Status and Trend Monitoring
* Secondary R, M, and E Type : Status and Trend Monitoring
* Secondary R, M, and E Focal Strategy : Multiple Strategies
Locations: 1



Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program Website

Protocol: Biological Evaluations (1990-077-00) v1.0

Protocol Owner: Russell Porter **Protocol State:** Draft

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2014	4/30/2014	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Compute 2014 Northern P keminnow exploitation rates by program areas	5/15/2014	1/31/2015	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2013 season and report progress monthly and final end of season exploitation rates for the fishery and program areas.
D. Estimate 2013 reduction in predation over pre-program levels	10/1/2014	1/31/2015	Inactive	Determine salmonid predation reduction update by applying 2013 program data.
E. Examine pikeminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2014	2/16/2015	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
F. Study predator compensatory responses to pikeminnow removals	10/1/2014	2/16/2015	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response or lack thereof to continued removal of Northern pikeminnows.
Deliverable: G. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		2/28/2015	Inactive	<i>See the Deliverable Specification above</i>

K: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries

Description: Monitor p keminnow responses of pikeminnow, walleye and smallmouth bass to the continuing removals of p keminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis. This will be done under a subcontract.

Deliverable Specification: : Evaluate the response of Northern Pikeminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Multiple Strategies

Locations:

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:**

State: OR **HUC5 Watershed:**

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present:



Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) v1.0
Protocol Owner: Russell Porter **Protocol State:** Draft
Area of Inference: **Name** **Value**
 Latitude, Longitude 45.638639, -121.108806

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2014	4/30/2014	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2014	2/28/2015	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2015	Inactive	<i>See the Deliverable Specification above</i>

L: 119. Manage and Administer Projects

Title: Process and pay reward vouchers
Description: Check, process and prepare reward checks for program vouchers for regular catch and catch of tagged fish. Maintain angler database for tiered reward structure and compile and issue IRS Form 1099 to anglers for calendar year 2013.
Deliverable Specification: All administrative tasks shall be fulfilled on time and with quality products. Timely responses to requests for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery is expected.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Accrual - Submit September estimate to BPA	9/1/2014	9/30/2014	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
B. Facilitate inputting Cost Share information into Pisces at the Project level	4/1/2014	5/31/2014	Inactive	If there are multiple contractors under this project, and you are the lead project Proponent, solicit cost share information for the previous federal FY from project partners and enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners.
C. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/2/2014	1/31/2015	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
Deliverable: D. All administrative tasks fulfilled with timely quality products		3/31/2015	Inactive	<i>See the Deliverable Specification above</i>

M: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams
Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for p keminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May through August, 2014. This will be done partially under a subcontract.
Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1, 2014 - August 31, 2014
Planned Metrics: * # of beavers released: 0
 * Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 2



Primary Focal Species: Chinook - Deschutes River Summer/Fall ESU | Chinook - Mid-Columbia River Spring ESU | Chinook - Snake River Fall ESU | Chinook - Snake River Spring/Summer ESU | Chinook - Snake River Spring/Summer | Chinook - Upper Columbia River Spring ESU | Chinook - Upper Columbia River Summer/Fall ESU | Sockeye - All Populations

Country: US **NPCC Subbasin:** Multiple

State: WA **HUC5 Watershed:** Multiple

County: KLICKITAT **HUC6 Name:**

Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2014	4/30/2014	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
Deliverable: B. Dam Angling at The Dalles and John Day dams.		8/29/2014	Inactive	<i>See the Deliverable Specification above</i>

N: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2013

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2013. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://www.efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: Use the attachment tab in Pisces to attach your progress report. Progress reports attached in Pisces will be posted on the web.

Planned Metrics:

- * Start date of reporting period : 1/1/2013
- * End date of reporting period : 12/31/2013

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Draft calendar year 2013 RM&E Technical Report and email MS Word version for BPA review	4/1/2014	4/2/2014	Inactive	Use to create a template for your technical Annual Progress Report. Building off last year's report, develop a draft report on RM&E and data management actions and discuss relevancy of results to the Fish and Wildlife Program. Your report should include the data, analyses, and data management completed by your project by December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent report. For example, if you have completed redd surveys, but have not completed the analyses, you will report the preliminary data (# of redds). You do not need to rush your analyses; they may be reported in the subsequent report. Upon completion, email a draft to your COTR and RMEsupport@bpa.gov for BPA review of the draft. (Milestone start/end: September 15 - January 15)
B. Confirm BPA has posted the progress report	4/3/2014	5/15/2014	Inactive	It usually takes BPA 30-45 days to post the final version of a report. This milestone's end date should therefore be 45 days after the Deliverable milestone. You will receive an email from BPA confirming that your report has been finalized and posted to the web.
Deliverable: C. Attach CY 2013 Progress Report in Pisces		4/3/2014	Inactive	<i>See the Deliverable Specification above</i>

O: 141. Produce Other Report

Title: Submit BiOp RPA Report for calendar year 2013

Description: Submit BiOp RM&E Report in Taurus for Calendar Year 2013.



Deliverable Specification: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, separate BiOp reports are now required to be completed online. If desired, the required information can be prepared in MS Word, and be pasted into Taurus.

The online BiOp RPA report in Taurus (www.cbfish.org) should include the data, analyses, and data management completed by your project by December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the analyses, you will report the preliminary data (# of redds). You do not need to rush your analyses; they may be reported in the subsequent RPA report.

For each RPA, follow the directions in Taurus for each of the three sections and, as appropriate, input graphical or tabular data, accompanied by explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Calendar Year 2013 RPA Report uploaded to cbfish.org		4/1/2014	Inactive	See the Deliverable Specification above

P: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2014

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2014. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://www.efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: Use the attachment tab in Pisces to attach your progress report. Progress reports attached in Pisces will be posted on the web.

Planned Metrics:
 * Start date of reporting period : 1/1/2014
 * End date of reporting period : 12/31/2014



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Upload MS Word calendar year 2014 RM&E Technical Report	1/1/2015	1/10/2015	Inactive	Address BPA comments and upload Calendar Year Report into Pisces Attachments tab as an MS Word document as a "Technical, Draft." Upon completion, email draft to COTR and RMEsupport@bpa.gov (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF). (Milestone start/end: Jan 16 - Mar 15)
B. Draft calendar year 2014 RM&E Technical Report and email MS Word version for BPA review	1/1/2015	1/15/2015	Inactive	Use to create a template for your technical Annual Progress Report. Building off last year's report, develop a draft report on RM&E and data management actions and discuss relevancy of results to the Fish and Wildlife Program. Your report should include the data, analyses, and data management completed by your project by December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent report. For example, if you have completed redd surveys, but have not completed the analyses, you will report the preliminary data (# of redds). You do not need to rush your analyses; they may be reported in the subsequent report. Upon completion, email a draft to your COTR and RMEsupport@bpa.gov for BPA review of the draft. (Milestone start/end: September 15 - January 15)
C. Submit progress report for internal contractor review	1/1/2015	1/15/2015	Inactive	Use this milestone if the annual report requires an internal review before being reviewed externally. Make sure to allow for both technical and policy reviews if necessary.
D. Confirm BPA has posted the progress report	3/31/2015	3/31/2015	Inactive	It usually takes BPA 30-45 days to post the final version of a report. This milestone's end date should therefore be 45 days after the Deliverable milestone. You will receive an email from BPA confirming that your report has been finalized and posted to the web.
Deliverable: E. Attach CY 2014 Progress Report in Pisces		3/31/2015	Inactive	<i>See the Deliverable Specification above</i>

Q: 141. Produce Other Report

Title: Submit BiOp RPA Report for calendar year 2014

Description: Submit BiOp RM&E Report in Taurus for Calendar Year 2014. Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, separate BiOp reports are now required to be completed online. If desired, the required information can be prepared in MS Word, and be pasted into Taurus.

The online BiOp RPA report in Taurus (www.cbfish.org) should include the data, analyses, and data management completed by your project by December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the analyses, you will report the preliminary data (# of redds). You do not need to rush your analyses; they may be reported in the subsequent RPA report.

For each RPA, follow the directions in Taurus for each of the three sections and, as appropriate, input graphical or tabular data, accompanied by explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Deliverable Specification: Report has been finalized and uploaded into Taurus (cbfish.org)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. BiOp RM&E Projects: RPA reporting – download your associated RPA questions from cbfish.org	1/1/2015	1/31/2015	Inactive	[DELETE THIS MILESTONE IF BPA HAS DETERMINED THE PROJECT DOES NOT SUPPORT THE FCRPS BIOP RM&E RPAs (50 through 73)] To prepare for your RPA report, go to Taurus (www.cbfish.org) and find your RPA reporting requirements (those with "Input Needed") so you will know how much time to set aside for this task. (Milestone start/end: June 1 – August 31)
B. BiOp RM&E Projects: RPA reporting - complete draft calendar year report in cbfish.org	2/1/2015	2/28/2015	Inactive	[DELETE THIS MILESTONE IF BPA HAS DETERMINED THE PROJECT DOES NOT SUPPORT THE FCRPS BIOP RM&E RPAs (50 through 73)] When you are done, email RMESupport@bpa.gov and the COTR to send them your working draft in Word or to notify them to review in Taurus. (Milestone start/end: September 15 - January 15)
C. BiOp RM&E Projects: RPA reporting – finalize the calendar year 2014 RPA report in Taurus	3/1/2015	3/31/2015	Inactive	[DELETE THIS MILESTONE IF BPA HAS DETERMINED THE PROJECT DOES NOT SUPPORT THE FCRPS BIOP RM&E RPAs (50 through 73)] The final version is due 75 days after the end of the calendar year. (Milestone start/end: January 16 - March 15)
Deliverable: D. Calendar Year 2014 RPA Report uploaded to cbfish.org		3/31/2015	Inactive	See the Deliverable Specification above

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also “comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action” (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:

<http://www.efw.bpa.gov/IntegratedFWP/InadvertentDiscoveryProcedure.pdf>

Northern Pikeminnow 2014 Summary Budget						
Northern Pikeminnow Management Program for 2014 [4/1/14-3/31/15]						
PSMFC						
1990-077-00, Grant 64365						
PSMFC Fiscal & Contractual Oversight + Reward Fund						\$1,567,495
PSMFC Sport Reward Fish Tech Support						\$364,708
WDFW Sport Reward Fish Tech/Biologists						\$931,971
ODFW Program Evaluation						\$848,768
WDFW Dam Angling						\$42,643
PSMFC Dam Angling Support						\$64,914
Total						\$3,820,499

Northern Pikeminnow Management Program
 Budget for the Oregon Department of Fish and Wildlife
 4/1/14 - 3/31/15, 1990-077-00, Grant 64365

	Qty.	Unit		Rate	Cost
A. PERSONNEL					\$548,849
<i>Salaries</i>					

(b) (6)

EBA (Seasonal)	4	months	@	\$2,113	\$8,452
EBA (Seasonal)	3	months	@	\$2,113	\$6,339
EBA (Seasonal)	3	months	@	\$2,113	\$6,339
EBA (Seasonal)	4	months	@	\$2,113	\$8,452
EBA (Seasonal)	4	months	@	\$2,113	\$8,452
EBA (Seasonal)	3	months	@	\$2,113	\$6,339
EBA (Seasonal)	3	months	@	\$2,113	\$6,339
EBA (Seasonal)	4	months	@	\$2,113	\$8,452
EBA (Seasonal)	4	months	@	\$2,113	\$8,452
				Subtotal Salaries	\$324,428
<i>Benefits</i>					

(b) (6)

EBA (Seasonal)	4	months	@	93.44%	\$7,898
EBA (Seasonal)	3	months	@	93.44%	\$5,923
EBA (Seasonal)	3	months	@	93.44%	\$5,923
EBA (Seasonal)	4	months	@	93.44%	\$7,898
EBA (Seasonal)	4	months	@	93.44%	\$7,898
EBA (Seasonal)	3	months	@	93.44%	\$5,923
EBA (Seasonal)	3	months	@	93.44%	\$5,923
EBA (Seasonal)	4	months	@	93.44%	\$7,898
EBA (Seasonal)	4	months	@	93.44%	\$7,898
				Subtotal Benefits	\$224,421

Northern Pikeminnow Management Program
 Budget for the Oregon Department of Fish and Wildlife
 4/1/14 - 3/31/15, 1990-077-00, CR-272793

	Qty.	Unit		Rate	Cost
C. SERVICES AND SUPPLIES					\$114,756
<i>Travel</i>					
Lodging	415	days	@	\$77	\$31,955
Per Diem	445	days	@	\$46	\$20,470
Vehicle Rental, sedan	3	months	@	\$250	\$750
Vehicle Rental, 3/4 ton pickups (5)	37	months	@	\$600	\$22,200
Vehicle repair and maintenance	4	occurences	@	\$500	\$2,000
				Subtotal Travel	\$77,375
<i>Supplies</i>					
Office Supplies	63	FTE months	@	\$15	\$945
Sampling Equipment (PFDs, nets, gloves, etc.)	4	boats	@	\$550	\$2,200
Rain Gear	3	sets	@	\$200	\$600
Data Loggers	0	units	@	\$2,222	\$0
Boots	3	sets	@	\$100	\$300
Tagging Supplies	3	months	@	\$325	\$975
Lab Supplies (Chemicals, nitrile gloves, etc.)	4	months	@	\$250	\$1,000
Boat Supplies (oil, propellers, batteries, etc.)	4	months	@	\$800	\$3,200
Analytic Software (SAS)	1	license(s)	@	\$1,700	\$1,700
Analytic Software (SigmaPlot)	2	license(s)	@	\$400	\$800
Rite-N-Rain Paper Data Sheets	15	Packages	@	\$30	\$450
				Subtotal Supplies	\$12,170
<i>Services</i>					
Photocopier and Fax Rent	5	months	@	\$300	\$1,500
Northwest Region Utilities					\$1,500
Cellular Phone Service	40	months	@	\$20	\$800
Maint., Operation and Repair of Boats	183	days	@	\$117	\$21,411
				Subtotal Services	\$25,211
D. DIRECT COST					\$663,605
E. INDIRECT COST					\$172,537.29
			@	26%	
G. TOTAL PROJECT COST (Direct cost to PSMFC)					\$836,142
H. PSMFC Admin Fee (1.51%)					\$12,626
		TOTAL:			\$848,768

	Quantity		Salaries		Dollars
(PDX/Vancouver area - (b) (6))	18	months	\$3,195		\$57,510
(Other areas - (b) (6) ,	30	months	\$3,031		\$90,930
(b) (6)				subtotal	\$148,440
4% of salaries					\$20,782
					\$169,222
	450	trips	\$1		\$450
cks)	84	months	\$308		\$25,872
nder)	12	months	\$318		\$3,816
s)	72	months	\$252		\$18,144
ucks)	111,000	miles	\$0.310		\$34,410
ender)	6,000	miles	\$0.450		\$2,700
ans)	75,000	miles	\$0.230		\$17,250
rges (combined)	1	season	\$3,000		\$3,000
					\$105,642
SERVICES					
	1	season	\$2,000		\$2,000
	10	crews	\$500		\$5,000
plies	1	season	\$1,000		\$1,000
ms)	40,000	forms	\$0.160		\$6,400
rs)	25,000	forms	\$0.225		\$5,625
plies	1	season	\$2,000		\$2,000
				subtotal	\$22,025
	108	months	\$55		\$5,940
net service	12	months	\$105		\$1,260
e - Dallesport	6	months	\$600		\$3,600
r maintenance	1	year	\$1,500		\$1,500
	1	year	\$1,000		\$1,000
repair/maintenance	1	year	\$1,500		\$1,500
ding	1	year	\$500		\$500
old storage	1	season	\$12,000		\$12,000
	1	season	\$400		\$400
				Subtotal	\$27,700
Additional Services					\$49,725
Direct Costs					\$324,589
12.36% of A, B, C, and D					\$40,119

er, Bio III		12	months	\$4,770	\$57,240
Pasco		12	months	\$4,214	\$50,568
Mid-River		12	months	\$4,014	\$48,168
IT Tag Lead		6	months	\$3,459	\$20,754
(data entry)		9	months	\$3,135	\$28,215
(10*6 mo Crew Leaders)		60	months	\$3,135	\$188,100
(Vancouver - logistics)		9	months	\$3,135	\$28,215
				subtotal	\$426,270
- WDFW					
(3*6 mo crew members)		18	months	\$2,724	\$49,032
				subtotal	\$475,302
Early Staff @ 16.86%*					
					\$71,869
*(Benefit calculation based on OASI=6.2%, retirement=9.21%, medicare=1.45% of salary)					
Early Staff Health + L&I**		121	months	\$822.25	\$99,492
**(Benefit calculation based on \$40.25/mo L&I + \$782/mo health)					
Light Staff @ 16.86%*					
					\$8,267
*(Benefit calculation based on OASI=6.2%, retirement=9.21%, medicare=1.45% of salary)					
Light Staff - Health + L&I**		18	months	\$822.25	\$14,801
**(Benefit calculation based on \$40.25/mo L&I + \$782/mo health)					
				subtotal	\$194,429
Oil					
					\$669,731
Per Diem					
(per diem w/lodging)		20	days	\$129	\$2,580
/maintenance		1	year	\$3,500	\$3,500
sement		3,080	miles	\$0.560	\$1,725
					\$7,805
SUPPLIES					
		1	season	\$1,500	\$1,500
supplies		6	months	\$1,000	\$6,000
supplies		6	months	\$250	\$1,500
				subtotal	\$9,000
Utilities					
ility charges (phone, elec)		12	months	\$450	\$5,400
ce (Supplemental)		1	season	\$24,000	\$24,000
		1	year	\$1,000	\$1,000
				Subtotal	\$30,400
Services					
					\$39,400
Direct Costs					
					\$716,935
Contingency					
28.06% of A, B, and C					\$201,172

Scientific Personnel Management Program for 2014 [4/1/14-3/31/15]							
PSMFC							
90-077-00, Grant 64365							
CATEGORY							
PERSONNEL			Quantity		Salaries		Dollars
Sci Tech (PSMFC)	(3 Crew members @ 4.5 mos)		13.5	months	\$3,031		\$40,919
						subtotal	\$40,919
Benefits							
PSMFC Temp staff @ 14% of salaries							\$5,729
						subtotal	\$5,729
Total Personnel							\$46,647
TRAVEL							
GSA Truck Lease			12	months	\$308		\$3,696
GSA mileage (Truck)			5,500	miles	\$0.310		\$1,705
Total Travel							\$5,401
GOODS & SERVICES							
Supplies							
Fish handling /field Materials			5	months	\$1,000		\$5,000
						subtotal	\$5,000
Services							
Cell Phones			5	months	\$55		\$275
Safety/Training PSMFC			3	employees	\$150		\$450
						Subtotal	\$725
Total Goods & Services PSMFC							\$5,725
Total PSMFC Direct Costs							\$57,773
PSMFC Indirect @ 12.36%							\$7,141
PSMFC Project Costs							\$64,914
Total Project Cost							\$64,914
Prepared by: 12/23/13 RGP							

MFC									
90-077-00, Grant 64365									
CATEGORY									
PERSONNEL				Quantity		Salaries		Dollars	
Sci Tech (WDFW)	(Crew Leader)			5 months		\$3,135		\$15,675	
							subtotal	\$15,675	
Benefits									
WDFW Non-Permanent Staff @16.86%*								\$2,643	
*(Benefit calculation based on OASI=6.2%, retirement=9.21%, medicare=1.45% of salary)									
WDFW Non-Permanent Yearly Staff Health + L&I**				5 months		\$822.25		\$4,111	
**(Benefit calculation based on \$40.25/mo L&I + \$782/mo health)									
							subtotal	\$6,754	
Total Personnel								\$22,429	
TRAVEL									
GSA Supplemental Insurance (WDFW)				1 year		\$2,225		\$2,225	
Total Travel								\$2,225	
GOODS & SERVICES									
Supplies									
Angling supplies - bait/tackle (WDFW)				5 months		\$1,600		\$8,000	
							subtotal	\$8,000	
Services									
Safety/Training WDFW				1 employee		\$150		\$150	
							Subtotal	\$150	
Total Goods & Services WDFW								\$8,150	
Total WDFW Direct Costs								\$32,804	
WDFW Indirect @ 28.06% of A, B, and C								\$9,205	
WDFW Project Costs								\$42,009	
SMFC Admin Fee 1.51%								\$634	
Total Project Cost								\$42,643	
Date: 12/23/13 Rev RGP									



Statement of Work Report

Data Current as of: 02/13/2015
Report Printed: 02/13/2015

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 68321
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$4,069,855 **Perf. Period:** 4/1/2015 - 3/31/2016
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 68321
SOW Validation: Last validated 01/28/2015 with 0 problems, and 0 reviewable items
Contract Documents: [Property Inventory \(01/23/2015\)](#) 2015 Property Inventory

[Budget - Contract \(01/23/2015\)](#) 2015 Northern Pikeminnow Sport Reward Managem...



Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
David Roberts	COTR	Bonneville Power Administration	(503) 230-4511 / (503) 230-4564	daroberts@bpa.gov	905 NE 11th Ave Mailstop KEWU-4 Portland OR 97232
Kristi Van Leuven	Contracting Officer	Bonneville Power Administration	(503) 230-3605 / NA	kjvleuven@bpa.gov	P.O Box 3621 Mailstop - NSSP-4 Portland, OR 97208-3621
Peter Lofy	F&W Approver	Bonneville Power Administration	(503) 230-4193 / (503) 230-4563	ptlofy@bpa.gov	905 NE 11th Ave. Portland OR 97232
Brad James	Administrative Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Christine Mallette	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6053 / (976) 736-073	christine.mallette@state.or.us	17330 SE Evelyn Street Clackamas, OR 97015
Pam Kahut	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	pam_kahut@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202-6413
Thomas Rien	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6061 / (971) 673-6073	tom.a.rien@state.or.us	17330 SE Evelyn Street Clackamas OR 97015-
Tucker Jones	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
Erick Van Dyke	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6068 / NA	erick.s.vandyke@state.or.us	
Dan Gambetta	Env. Compliance Lead	Bonneville Power Administration	(503) 230-3493 / NA	dagambetta@bpa.gov	
Randy Fisher	Supervisor	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	randy.fisher@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413
Steve Williams	Contract Manager	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	swilliams@psmfc.org	
Catherine AISheikhly	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3224 / NA	kalsheikhly@psmfc.org	
Michael Arredondo	Interested Party	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	marredondo@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202
Adam Storch	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6069 / NA	adam.j.storch@state.or.us	971-673-6069 Salem OR

Work Element Table of Contents:



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$1,000	(0 %)
B : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$2,000	(0 %)
C : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$290,489	(7 %)
D : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$24,994	(1 %)
E : 99. Outreach and Education - Promotion/Sport Show Outreach		\$39,800	(1 %)
F : 158. Mark/Tag Animals - Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$408,239	(10 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2015 Sport Reward Fishery Data Collection/Processing	*	\$76,000	(2 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,244,456	(31 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2015 Sport Reward Fund	*	\$1,477,427	(36 %)
J : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2015 pikeminnow removals on reduction in salmonid predation	*	\$174,959	(4 %)
K : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$224,948	(6 %)
L : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	*	\$101,543	(2 %)
M : 132. Produce (Annual) Progress Report - PLACEHOLDER: Submit RME Tech Report for Calendar year 2014		\$0	(0%)
N : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2015		\$2,000	(0 %)
O : 202. Produce BiOp RPA Report - BiOp RPA Report for CY 2015		\$2,000	(0 %)
Total:		\$4,069,855	

* Environmental Compliance (EC) needed before work begins.

Contract Description:



The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. In 2004, the most pikeminnow were removed in the history of the program (267,213 for a 17% exploitation rate followed by 242,315 for a 19% exploitation rate in 2005; 237,704 for a 17% exploitation rate in 2006, and 191,154 for an exploitation rate of 17% in 2007; 162,025 in 2008 for an exploitation rate of 19.6%; 142,002 for an exploitation rate of 12.8% in 2009; and 173,981 for an exploitation rate of 18.8 % in 2010; 155,312 for an exploitation rate of 15.6% in 2011, 157,846 for an exploitation rate of 15.9% in 2012; and 161,401 for an exploitation rate of 10.8% in 2013; and 164,058 for an exploitation of 11.5% in 2014). We will be conducting dam angling in 2015.

Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA

Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2015 (4/1/2015 - 6/30/2015)	7/1/2015	7/15/2015	Inactive	
B. Jul-Sep 2015 (7/1/2015 - 9/30/2015)	10/1/2015	10/15/2015	Inactive	
C. Oct-Dec 2015 (10/1/2015 - 12/31/2015)	1/1/2016	1/15/2016	Inactive	
D. Final Jan-Mar 2016 (1/1/2016 - 3/31/2016)	3/17/2016	3/31/2016	Inactive	

B: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance

Description: Produce Environmental Compliance Documentation

Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead

Planned Metrics:

- * Are herbicides used as part of work performed under this contract?: No
- * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Obtain BPA's EC Lead sign-off that EC requirements are complete	4/1/2015	4/30/2015	Inactive	The EC? column on the contract SOW tab in Pisces must have a "full moon" for each work element requiring environmental compliance before ground-disturbing implementation of that work element can begin. You will receive verbal or email notification from the EC Lead when a work element or, in rare instances, a portion of a work element is approved for implementation.
B. Determine if contract work could adversely affect Pacific lamprey	4/1/2015	4/30/2015	Canceled	Contractor will review work proposed under this contract and determine the following: 1) Will field work take place in any area where lamprey may be present? (Any tributary or subbasin where anadromous fish exist is also accessible Pacific lamprey habitat.) 2) Are there any stream disturbing activities or instream activities that could adversely impact Pacific lamprey? Examples of activities posing a threat to lamprey may include (this list is not intended to be all-inclusive): aquatic habitat improvements, fish passage improvements, culvert replacements, water diversions, altered management of water flows, dewatering of any portions of streams, or alteration of irrigation practices. If the answer is yes to BOTH 1 and 2, the contractor must implement USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (<i>Entosphenus tridentatus</i>) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf (BMPs).
C. Report lamprey observation and catch data to USFWS by Feb. 15	2/1/2016	2/15/2016	Inactive	All contractors doing instream work (e.g., surveys, habitat improvements, electrofishing, screwtraps, etc.) in anadromous fish areas are required to annually report lamprey observations or catch, including zero, by Feb 15 for the previous calendar year's work. A data template is available at: (http://www.efw.bpa.gov/contractors/docs/Lamprey_Database_Template.xls) As per instructions on the form, email your data to christina_luzier@fws.gov at US Fish and Wildlife Service and CC your COTR. For identification of lamprey life stages see page 10 of USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (<i>Entosphenus tridentatus</i>) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf .
D. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2015	3/31/2016	Inactive	Aquatic invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.coastal.ca.gov/ccbn/bmp-boaters.pdf -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.clr.pdx.edu/publications/files/OR_ANS_Plan.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Montana: http://www.anstaskforce.gov/Montana-FINAL_PLAN.pdf -- Idaho: http://www.idahoag.us/Categories/Environment/InvasiveSpeciesCouncil/documents/Idaho%20Aquatic%20Nuisance%20Species%20Plan.pdf
E. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2015	3/31/2016	Inactive	Work done to obtain permits such as Sec. 401 or 404 (including RGP process), shoreline, NPDES, or any other required federal, state, or local permits.
F. Participate in ESA Consultation	4/1/2015	4/30/2015	Inactive	Work may include drafting BA, completing HIP III BO Project Notification Form, submitting high risk project designs to Restoration Review Team (RRT), providing copy of Section 10, 4(d), or 6 permit, etc., or submitting Hatchery Genetic Management Plan to BPA for ESA consultation initiation, and providing input for the ensuing consultation.
Deliverable: G. Produce Environmental Compliance Documentation		4/30/2015	Inactive	<i>See the Deliverable Specification above</i>

C: 119. Manage and Administer Projects

- Title:** Provide Pikeminnow Management Program contractual and fiscal oversight
- Description:** Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
- Deliverable Specification:** All administrative tasks shall be fulfilled on time and with quality products. Timely responses to requests for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery is expected.



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Attach initial FISMA Compliance Attestation (BPA risk category Low)	4/1/2015	4/1/2015	Inactive	<p>BPA contractors are required to protect their data and electronic systems consistent with the federal FISMA law (Federal Information Security Management Act of 2002). Your contract has been rated as low risk by BPA Cyber Security. The designated signatory for your organization may vary.</p> <p>Check with your COTR to see if BPA has already obtained, or will soon obtain through previous contracts, the attestation. If not, please work with your COTR to obtain a signed attestation confirming your organizations compliance with FISMA. Attestations can be in the form of a formal memorandum, letter, or email. An email will need to be cut and pasted into a word processing program. All attachments must be saved and uploaded as PDF. A sample attestation communication that describes the minimum information required can be found as a Pisces attachment at {https://pisces.bpa.gov/release/documents/DocumentViewer.aspx?doc=P137862}.</p> <p>Upload the attestation to Pisces under the new FISMA Attestation File Type, and type in the title as Low-risk FISMA attestation. This milestone is considered complete when the contractor has uploaded an electronic copy of a signed attestation. Deadline: Start and end dates are both the first day of the contract.</p>
B. Begin drafting contract renewal documents and conduct internal review as needed	11/1/2015	12/1/2015	Inactive	Your statement of work, line-item budget, and (if required) property inventory for your next contract are due to BPA at least 5 months prior to the contract start date (longer if your internal processes require more time to get the contract signed and in place prior to the start date).
C. Confirm that FISMA compliance documentation for any subsequent contract is current	11/1/2015	11/25/2015	Inactive	<p>Contact your COTR and check in Pisces to confirm that the FISMA compliance documentation for your subsequent contact is still current. If not, work with COTR to update documentation. (Due 125 days before the contract end date).</p> <p>BPA contractors are required to protect their data and electronic systems consistent with the federal FISMA law (Federal Information Security Management Act of 2002). Your contract will be rated as low risk by BPA Cyber Security.</p>
D. Submit contract renewal package (SOW, Excel budget, property inventory) to BPA COTR	11/15/2015	12/15/2015	Inactive	Once your statement of work (SOW) in Pisces is complete, and you have attached your line-item budget (LIB) and property inventory (PI) (if required), click the "Submit" button on the SOW tab to notify your COTR the package is ready for review.
E. Address comments and revise SOW, LIB, and PI as needed to get BPA manager approval	12/15/2015	1/31/2016	Inactive	<p>Once your COTR and his or her BPA manager have reviewed your contract renewal package and returned any comments to you, you will need to provide responses and changes as needed to achieve approval from the BPA manager, who will then forward the package to the Contracting Officer.</p> <p>This should be completed at least two months prior to the next contract start date, but may need to be 3 or 4 months depending on your internal processing time for contract signatures. If you have subcontracts that need to be signed prior to the contract start, it should be a minimum of 4 months.</p>
F. Accrual - Submit September estimate to BPA	8/10/2015	9/10/2015	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
G. Facilitate inputting Cost Share information into Pisces at the Project level	10/1/2015	11/15/2015	Inactive	I am the sole contractor under this project. I will enter previous federal FY's Cost Share information on the Project's Cost Share tab by Nov 15. (Milestone starts Sep. 30 and ends Nov. 15)
H. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/2/2015	1/31/2016	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
Deliverable: I. All administrative tasks fulfilled with timely quality products		3/31/2016	Inactive	<i>See the Deliverable Specification above</i>

D: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations

Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.



Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute salmonid listed stock ratios for weekly reports to NMFS	6/1/2015	3/31/2016	Inactive	Compute ratios of listed stocks for lower and middle Columbia river and the Snake river. Apply these ratios to the weekly salmonid interactions of pikeminnow anglers for the Biological Opinion (B.O.). weekly report to NMFS of pikeminnow catch and salmonid interactions. This may be modified for 2014 depending on the final acceptance and directives in the Biological Opinion by the federal court.
B. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2015	9/30/2015	Inactive	Compile and submit weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
Deliverable: C. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2016	Inactive	<i>See the Deliverable Specification above</i>

E: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Sportsman's Show booths, and program brochure and print media. This may be done partially under a subcontract.
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths. Develop program promotion materials for print and other media outlets.
Planned Metrics: # of general public reached: 500
Locations: 1
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		3/31/2016	Inactive	<i>See the Deliverable Specification above</i>

F: 158. Mark/Tag Animals

Title: Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals
Description: Collect pikeminnow for tagging with spaghetti tags and PIT Tags for population and evaluation studies for the Northern Pikeminnow Management Program. This will be done under a subcontract.
Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.
Planned Metrics: * Primary R, M, and E Focal Strategy : Multiple Strategies
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Strategy : Predation
Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Order PIT tags in TDI system	9/1/2015	10/31/2015	Inactive	Submit tag request in the Tag Distribution and Inventory application (TDI) at http://www.ptagis.org/services/tag-distribution-inventory indicating when the tags are needed (one or multiple shipments). Tag orders should be placed during September and October for shipment any time during the fiscal year. Funding for the tags occurs at the project level.
C. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2015	7/31/2015	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: D. Collect and tag pikeminnow with spaghetti tags and PIT tags for program evaluation studies.		7/15/2015	Inactive	See the Deliverable Specification above

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2015 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Multiple Strategies

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program Website

Protocol: Predation Modeling (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2015	4/30/2015	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2015	3/31/2016	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2016	3/31/2016	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Coordinate stations and operating times, staff and train registration clerks for the 20 stations	4/1/2015	9/30/2015	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2015 season and their times of operation. Set stations to operate in 2015 and their times of operation to maximize station open times in relation to catch and cost efficiency.
F. Provide program and fishery data to participants and interested parties at the stations	4/1/2015	10/31/2015	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 20 program stations.
G. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2015	11/15/2015	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: H. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/15/2015	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations

Description: This work element addresses running the 20 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.

Deliverable Specification: Operate the 20 registration/creel check stations on the Columbia and Snake rivers from May 1, 2015 through September 30, 2015. Selected stations may remain open until mid-October if conditions warrant.

Planned Metrics: * # of beavers released: 0
* Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**



Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2015	9/30/2015	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 20 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2015	9/30/2015	Inactive	Hire, train and supervise the clerks for the 20 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2015	9/30/2015	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		10/15/2015	Inactive	<i>See the Deliverable Specification above</i>

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2015 Sport Reward Fund
Description: The reward fund used to pay regular and tag vouchers issued to P keminnow Sport Reward anglers. The 20 registration/creel stations utilized in the program are entered in the location fields.
Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.
Planned Metrics: * # of beavers released: 0
 * Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook - All Populations | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations | Chum - Columbia River ESU
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2015	11/15/2015	Inactive	Manage voucher payment program daily, and pay every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Pikeminnow Sport Reward Fund		11/15/2015	Inactive	<i>See the Deliverable Specification above</i>

J: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2015 pikeminnow removals on reduction in salmonid predation
Description: Determine the exploitation rates for the various sectors of the fishery in 2015. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of p keminnows. This will be done under a subcontract.
Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2015 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.
Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Strategy : Multiple Strategies



Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) v1.0
Protocol Owner: Steve Williams **Protocol State:** Draft

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2015	4/30/2015	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2015	3/31/2016	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2016	3/31/2016	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Compute 2015 Northern P keminnow exploitation rates by program areas and estimate reduction in predation over pre program levels	5/15/2015	3/1/2016	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2013 season and report progress monthly and final end of season exploitation rates for the fishery and program areas. Determine reduction in salmonid predation in relation to pre program evaluation levels
F. Examine p keminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2015	3/1/2016	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
G. Study predator compensatory responses to pikeminnow removals	10/1/2015	3/1/2016	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response to continued removal of Northern pikeminnows.
Deliverable: H. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		3/31/2016	Inactive	See the Deliverable Specification above

K: 162. Analyze/Interpret Data



Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries

Description: Monitor p keminnow responses of pikeminnow, walleye and smallmouth bass to the continuing removals of p keminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis. This will be done under a subcontract.

Deliverable Specification: Evaluate the response of Northern P keminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Multiple Strategies

Locations:

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: **NPCC Subbasin:**

State: **HUC5 Watershed:**

County: **HUC6 Name:**

Salmonid ESUs Present:

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program
Website

Protocol: Biological Evaluations (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft

Area of Inference:

Name	Value
Latitude, Longitude	45.638639, -121.108806

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2015	4/30/2015	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2015	3/31/2016	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2016	Inactive	<i>See the Deliverable Specification above</i>

L: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams

Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for p keminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May through August, 2015. This may be done partially under a subcontract.

Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1, 2015 - August 31, 2015

Planned Metrics:

- * # of beavers released: 0
- * Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 2

Primary Focal Species: Chinook - Deschutes River Summer/Fall ESU | Chinook - Mid-Columbia River Spring ESU | Chinook - Snake River Fall ESU | Chinook - Snake River Spring/Summer ESU | Chinook - Snake River Spring/Summer | Chinook - Upper Columbia River Spring ESU | Chinook - Upper Columbia River Summer/Fall ESU | Sockeye - All Populations

Country: US **NPCC Subbasin:** Multiple

State: WA **HUC5 Watershed:** Multiple

County: KLICKITAT **HUC6 Name:**

Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2015	4/30/2015	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
Deliverable: B. Dam Angling at The Dalles and John Day dams.		8/31/2015	Inactive	See the Deliverable Specification above

M: 132. Produce (Annual) Progress Report

Title: PLACEHOLDER: Submit RME Tech Report for Calenendar year 2014
Description: The milestones for this WE will be cancelled when the CY 2014 RM&E Technical Report is uploaded under contract 64365.

The progress report summarizes the project goal, objectives, hypotheses (for research), completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or any ramping up or ramping down of contract components or of the project as a whole.

[Non-technical Progress Reports must conform to BPA guidelines. See the "Non-technical Progress Report" link at: <http://www.cbfish.org/Help.mvc/GuidanceDocuments>.

RM&E Technical Progress reports must conform to BPA guidelines. See the "RME Technical Reporting" link at: <http://www.cbfish.org/Help.mvc/GuidanceDocuments>.

If producing a manuscript for a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: It usually takes BPA 30-45 days to publish the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. If you do not, contact your COTR.

Planned Metrics:
 * Start date of reporting period : 1/1/2014
 * End date of reporting period : 12/31/2014

Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Upload draft RM&E Technical Report (MS Word) for BPA review	4/1/2015	5/31/2015	Inactive	This milestone will be cancelled when the CY 2014 RM&E Technical Report is uploaded under contract 64365. Use the guidance & template for your RME Technical Report. Develop a draft report on RM&E and data management actions and discuss relevancy of results to the Fish and Wildlife Program. Your report should include the cumulative: data, analyses, and data management. For more information, please see the RME Report guidance located at http://www.cbfish.org/Help.mvc/GuidanceDocuments . Upon completion, upload report into the Pisces Attachments tab as an MS Word document as a "Technical, Draft" for BPA review. If your Word file is too big to be uploaded, contact fish support fishsupport@bpa.gov . (Milestone start/end: September 15 - January 15).
B. RM&E Technical: Upload finalized RM&E Technical Report (MS Word) for BPA to publish	4/1/2015	5/31/2015	Inactive	This milestone will be cancelled when the CY 2014 RM&E Technical Report is uploaded under contract 64365. Address any BPA comments on the draft and re-upload finalized report into the Pisces Attachments tab as an MS Word document as a "Technical, draft." (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF.) (Milestone start/end: Jan 16 - Mar 15)
Deliverable: C. Progress Report has been published		5/31/2015	Inactive	See the Deliverable Specification above

N: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2015



Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2015. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://www.efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: It usually takes BPA 30-45 days to publish the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. If you do not, contact your COTR.

Planned Metrics:
 * Start date of reporting period : 1/1/2015
 * End date of reporting period : 12/31/2015

Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Prepare for RM&E Technical Report. Review the revised (2015) guidance & template	11/15/2015	12/1/2015	Inactive	BPA fish and wildlife project sponsors who have the following work elements in their contract(s) are required to complete an RM&E technical report showing cumulative results and synthesis for the duration of the study's data collection/analysis: 70 Install Equipment, 156 Develop RM&E Methods and Designs, 157 Collect/Generate/Validate Field and Lab Data, 158 Mark and Tag Animals, 159 Transfer/Consolidate Regionally Standardized Data, 160 Create/Manage/Maintain Database, and/or 162 Analyze/Interpret Data. BPA needs all sponsors to have finalized reports completed in March to align with BPA's regulatory reporting timelines. BPA's most recent guidance and template for RME Technical Reports are available at: http://www.cbfish.org/Help.mvc/GuidanceDocuments . (Milestone start/end: August 1 – September 14).
B. Distribute Progress Report for Internal Contractor Review	12/1/2015	2/15/2016	Inactive	Internal review will be conducted before being reviewed externally or being uploaded.
C. Distribute Progress Report for External Review to [Insert external review entity]	2/15/2016	3/15/2016	Inactive	External (non-BPA) review of the report will be conducted by WDFW and ODFW before being uploaded.
D. RM&E Technical: Upload draft RM&E Technical Report (MS Word) for BPA review	1/1/2016	2/15/2016	Inactive	Use the guidance & template for your RME Technical Report. Develop a draft report on RM&E and data management actions and discuss relevancy of results to the Fish and Wildlife Program. Your report should include the cumulative: data, analyses, and data management. For more information, please see the RME Report guidance located at http://www.cbfish.org/Help.mvc/GuidanceDocuments . Upon completion, upload report into the Pisces Attachments tab as an MS Word document as a "Technical, Draft" for BPA review. If your Word file is too big to be uploaded, contact fish support fishsupport@bpa.gov . (Milestone start/end: September 15 - January 15).
E. RM&E Technical: Upload finalized RM&E Technical Report (MS Word) for BPA to publish	1/16/2016	3/15/2016	Inactive	Address any BPA comments on the draft and re-upload finalized report into the Pisces Attachments tab as an MS Word document as a "Technical, draft." (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF.) (Milestone start/end: Jan 16 - Mar 15)
Deliverable: F. Progress Report has been published		3/31/2016	Inactive	See the Deliverable Specification above

O: 202. Produce BiOp RPA Report

Title: BiOp RPA Report for CY 2015



Description: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, these reports are required to be completed online. If desired, the required information can be prepared in MS Word, and pasted into Taurus. For more guidance see http://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf.

Deliverable Specification: The online BiOp RPA report in [cbfish.org](http://www.cbfish.org) (<http://www.cbfish.org/BiologicalOpinionAction.mvc/Index/2014/BiOpRpaStatus>) should include the data, analyses, and data management completed no later than December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the scale analyses, you will report the preliminary data (# of redds), but not (incomplete) age distributions of carcasses, which would be reported in the subsequent CY report.

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Download RPA questions from cbfish.org	9/1/2015	11/30/2015	Inactive	To prepare for your RPA report, 1) Go to www.cbfish.org and log in, 2) Navigate to your project and select "BiOp Annual Report" from the menu on the left, 3) Click on "Input Needed" for each applicable RPA to find your RPA reporting requirements so you will know how much time to set aside for this task. You may also click the "download RPA doc" button to get all RPA questions in one MS Word document. 4) Use "Request Review" link to email COTR or BPA RM&E RPA lead to request help or for review of draft content. For further guidance, see: http://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf (Milestone start/end: July 1 – September 30)
B. Draft calendar year report in cbfish.org	1/4/2016	2/28/2016	Inactive	For guidance on completing your report, see: http://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf . If you have questions or would like BPA to review your draft, you may email RMESupport@bpa.gov and your COTR to send them your working draft in Word or notify them to review in cbfish.org by using the "Request Review" email icon link to e-mail your COTR & BPA RM&E RPA lead. (Milestone start/end: September 30 - February 28)
C. Finalize calendar year report in cbfish.org and click Publish by March 15	2/15/2016	3/15/2016	Inactive	The final version is due by March 15. (Milestone start/end: December 31 - March 15)
Deliverable: D. Submit BiOp RPA Report in cbfish.org		3/15/2016	Inactive	<i>See the Deliverable Specification above</i>

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:

<http://www.efw.bpa.gov/IntegratedFWP/InadvertentDiscoveryProcedure.pdf>

Pacific States Marine Fisheries Commission	
Northern Pikeminnow 2015-2016 Budget Summary	
Project 1990-077-00, Grant 68321	
April 1, 2015 to March 31, 2016	
PSMFC Program Management and Reward Fund	\$1,844,715
PSMFC Dam Angling Budget	\$55,774
PSMFC Field Operations Budget	\$351,885
ODFW Budget	\$833,141
WDFW Dam Angling Budget	\$45,769
WDFW Field Operations Budget	\$938,571
TOTAL CONTRACT COST	\$4,069,855

					Subtotal Contractual	\$75,800	
					Total Contractual Services		\$75,800
					PSMFC Direct Costs		\$330,414
					PSMFC Indirect Costs @	11.16%	\$36,874
					Total PSMFC Costs		\$367,288
					Sport Reward Fund		\$1,477,427
					TOTAL PSMFC Project Cost		\$1,844,715

Pacific States Marine Fisheries Commission						
Northern Pikeminnow 2015-2016 Budget Summary						
Project 1990-077-00, Grant 68321						
April 1, 2015 to March 31, 2016						
PSMFC Dam Angling Component of the 2015 NPM Control Program						
A. PERSONNEL			Quantity		Salaries	Dollars
Sci Tech (PSMFC)	(3 Crew members @ 4.5 mos)		13.5	months	\$2,708	\$36,558
Benefits						
PSMFC Temp staff		12%	of salaries			\$4,387
		Total Personnel				\$40,945
B. TRAVEL						
GSA Truck Lease			12	months	\$279	\$3,348
GSA mileage (Truck)			8,000	miles	\$0.329	\$2,632
		Total Travel				\$5,980
C. SERVICES & SUPPLIES						
Supplies						
Fish handling /field Materials			5	months	\$500	\$2,500
Services						
Cell Phones			5	months	\$60	\$300
Safety training & equipment PSMFC			3	employees	\$150	\$450
					Services Subtotal	\$750
		Total Services & Supplies				\$3,250
		Total PSMFC Direct Costs				\$50,175
PSMFC Indirect		11.16%	of A, B, and C			\$5,600
		Total PSMFC Project Costs				\$55,774

Pacific States Marine Fisheries Commission					
Northern Pikeminnow 2015-2016 Budget Summary					
Project 1990-077-00, Grant 68321					
April 1, 2015 to March 31, 2016					
PSMFC Component of the 2015 NPMP Field Operations					
A. PERSONNEL					
		Quantity		Salaries	Dollars
Sci. Tech	(PDX/Vancouver area - (b) (6))	16	months	\$2,873	\$45,968
Sci. Tech	(Other areas - (b) (6))	28	months	\$2,708	\$75,824
Subtotal Personnel					\$121,792
Benefits Temp staff		12%	of salaries		\$14,615
Total Personnel					\$136,407
B. TRAVEL					
Bridge Toll		450	trips	\$1	\$450
GSA Lease (Trucks)		84	months	\$239	\$20,076
GSA Lease (Render)		12	months	\$364	\$4,368
GSA Lease (Vans)		84	months	\$229	\$19,236
GSA mileage (Trucks)		100,000	miles	\$0.265	\$26,500
GSA mileage (Render)		6,500	miles	\$0.477	\$3,101
GSA mileage (Vans)		90,000	miles	\$0.254	\$22,860
Subtotal Travel					\$96,591
Total Travel					\$96,591
C. SERVICES & SUPPLIES					
Supplies					
Office Supplies		1	season	\$2,500	\$2,500
Field supplies		10	crews	\$1,159	\$11,595
Promotional supplies		1	season	\$9,000	\$9,000
Printing (Reg forms)		40,000	forms	\$0.160	\$6,400
Printing (Vouchers)		25,000	forms	\$0.225	\$5,625
Fish handling supplies		1	season	\$4,000	\$4,000
Pit Tag Scanner Replacement		7	@	\$2,000	\$14,000
Subtotal Supplies					\$53,120
Services					
Cell Phones 15 phones @ 12 months		180	months	\$36	\$6,480
High Speed Internet service		12	months	\$105	\$1,260
Field office lease - Dallesport		6	months	\$600	\$3,600
Computer/printer supplies & maintenance		1	year	\$1,000	\$1,000
Safety/Training/Equipment		1	year	\$1,000	\$1,000
PIT tag scanner supplies & maintenance		1	year	\$4,000	\$4,000
Document shredding		1	year	\$500	\$500
Fish rendering/Cold storage		1	season	\$12,000	\$12,000
Fed Ex shipping		1	season	\$600	\$600
Subtotal Services					\$30,440
Total Services & Supplies					\$83,560
Total PSMFC Direct Costs					\$316,557
PSMFC Indirect		11.16% of A, B, and C			\$35,328
Total Program Cost					\$351,885

Pacific States Marine Fisheries Commission					
Northern Pikeminnow 2015-2016 Budget Summary					
Project 1990-077-00, Grant 68321					
April 1, 2015 to March 31, 2016					
Subcontract Budget for the Oregon Department of Fish and Wildlife					
FY 2015-16, ODFW CDC 764003-27					

	Quantity	Unit	Rate	Total
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1. Personnel
 (b) (6)

EBA Seasonal	3	months	\$2,145	\$6,435
EBA Seasonal	3	months	\$2,145	\$6,435
EBA Seasonal	3	months	\$2,145	\$6,435
EBA Seasonal	3	months	\$2,145	\$6,435
EBA Seasonal	4	months	\$2,145	\$8,580
EBA Seasonal	4	months	\$2,145	\$8,580
EBA Seasonal	4	months	\$2,145	\$8,580
EBA Seasonal	4	months	\$2,145	\$8,580
EBA Seasonal	4	months	\$2,145	\$8,580
TOTALS				\$327,582

	Quantity	Unit	Rate	Total
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2. Benefits
 (b) (6)

EBA Seasonal	3	months	77.51%	\$4,988
EBA Seasonal	3	months	77.51%	\$4,988
EBA Seasonal	3	months	77.51%	\$4,988
EBA Seasonal	3	months	77.51%	\$4,988
EBA Seasonal	4	months	77.51%	\$6,650
EBA Seasonal	4	months	77.51%	\$6,650
EBA Seasonal	4	months	77.51%	\$6,650
EBA Seasonal	4	months	77.51%	\$6,650
EBA Seasonal	4	months	77.51%	\$6,650
TOTALS				\$197,636

	Quantity	Unit	Rate	Total
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3. Travel				
Lodging	422	days	\$83	\$35,026
Per Diem	456	days	\$46	\$20,976
Vehicle Rental, sedan	3	months	\$175	\$525
Vehicle Rental, 3/4 ton pickups (5)	37	months	\$600	\$22,200
Vehicle repair and maintenance	4	occurences	\$500	\$2,000
TOTALS				\$80,727

		Quantity	Unit	Rate	Total
4. Services and Supplies					
Office Supplies		65	FTE months	\$17	\$1,105
Sampling Equipment (PFDs, nets, gloves, etc.)		4	boats	\$550	\$2,200
Rain Gear		3	sets	\$200	\$600
Ruggedized laptop for field data entry		1	units	\$3,700	\$3,700
Boots		3	sets	\$100	\$300
Tagging Supplies		3	months	\$325	\$975
Lab Supplies (Chemicals, nitrile gloves, etc.)		4	months	\$250	\$1,000
Boat Supplies (oil, propellers, batteries, etc.)		4	months	\$800	\$3,200
Analytic Software (SigmaPlot)		2	license(s)	\$400	\$800
Rite-N-Rain Paper Data Sheets		15	Packages	\$30	\$450
Photocopier and Fax Rent		5	months	\$300	\$1,500
Northwest Region Utilities					\$1,500
Cellular Phone Service		40	months	\$25	\$1,000
Maint., Operation and Repair of Boats		183	days	\$117	\$21,411
	TOTALS				\$39,741
5. Total Direct Costs					\$645,686
6. Indirect Costs - ODFW	27%				\$174,335
TOTAL ODFW Costs					\$820,021
7. PSMFC Admin Fee	1.60%				\$13,120
Total Project Cost					\$833,141



Statement of Work Report

Data Current as of: 02/17/2016
Report Printed: 02/17/2016

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 71866
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$4,171,826 **Perf. Period:** 4/1/2016 - 3/31/2017
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 71866
SOW Validation: Last validated 02/11/2016 with 0 problems, and 7 reviewable items
Contract Documents: Northern Pikeminnow Sport Reward Program
[Budget - Contract \(02/09/2016\)](#) Budg...

[Property Inventory \(02/08/2016\)](#) Northern Pikeminnow Inventory Sheet 2016



Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
David Roberts	COTR	Bonneville Power Administration	(503) 230-4511 / (503) 230-4564	daroberts@bpa.gov	905 NE 11th Ave Mailstop KEWU-4 Portland OR 97232
Peter Lofy	F&W Approver	Bonneville Power Administration	(503) 230-4193 / (503) 230-4563	ptlofy@bpa.gov	905 NE 11th Ave. Portland OR 97232
Brad James	Administrative Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
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Tucker Jones	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
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Catherine Al-Sheikhly	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3224 / NA	kalsheikhly@psmfc.org	
Michael Arredondo	Interested Party	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	marredondo@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202
Adam Storch	Technical Contact	Oregon Department of Fish and Wildlife	(971) 673-6069 / NA	adam.j.storch@state.or.us	971-673-6069 Salem OR
Kristi Van Leuven	Contracting Officer	Bonneville Power Administration	(503) 230-3605 / NA	kjvleuven@bpa.gov	P.O Box 3621 Mailstop - NSSP-4 Portland, OR 97208-3621

Work Element Table of Contents:



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$1,025	(0 %)
B : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$2,050	(0 %)
C : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$297,767	(7 %)
D : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$25,620	(1 %)
E : 99. Outreach and Education - Promotion/Sport Show Outreach		\$40,797	(1 %)
F : 158. Mark/Tag Animals - Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$431,838	(10 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2016 Sport Reward Fishery Data Collection/Processing	*	\$77,904	(2 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,289,007	(31 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2016 Sport Reward Fund	*	\$1,487,704	(36 %)
J : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2016 pikeminnow removals on reduction in salmonid predation	*	\$179,343	(4 %)
K : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$230,584	(6 %)
L : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	*	\$104,087	(2 %)
M : 132. Produce (Annual) Progress Report - PLACEHOLDER: Submit RME Tech Report for Calendar year 2015		\$0	(0%)
N : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2016		\$2,050	(0 %)
O : 202. Produce BiOp RPA Report - BiOp RPA Report for CY 2016		\$2,050	(0 %)
Total:		\$4,171,826	

* Environmental Compliance (EC) needed before work begins.

Contract Description:



The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. 2015 was a very successful year for the NPMP with a total of 207,807 pikeminnow removed via the Sport Reward and Dam Angling programs. Pikeminnow removals resulted in meeting the programs exploitation rate goals coming in at just over 17% for 2015. We anticipate conducting dam angling program again in 2016.

Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA
Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.
Deliverable Specification:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2016 (4/1/2016 - 6/30/2016)	7/1/2016	7/15/2016	Inactive	
B. Jul-Sep 2016 (7/1/2016 - 9/30/2016)	10/1/2016	10/15/2016	Inactive	
C. Oct-Dec 2016 (10/1/2016 - 12/31/2016)	1/1/2017	1/15/2017	Inactive	
D. Final Jan-Mar 2017 (1/1/2017 - 3/31/2017)	3/17/2017	3/31/2017	Inactive	

B: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance
Description: Produce Environmental Compliance Documentation
Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Planned Metrics:

- * Are herbicides used as part of work performed under this contract?: No
- * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: Yes



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Obtain BPA's EC Lead sign-off that EC requirements are complete	4/1/2016	5/1/2016	Inactive	The EC column on the contract SOW tab in Pisces must have a "full moon" for each work element requiring environmental compliance before ground-disturbing implementation of that work element can begin. You will receive verbal or email notification from the EC Lead when a work element or, in rare instances, a portion of a work element is approved for implementation.
B. Determine if contract work could adversely affect Pacific lamprey			Canceled	
C. Report lamprey observation and catch data to USFWS by Feb. 15			Canceled	
D. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2016	3/31/2017	Inactive	Aquatic invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.coastal.ca.gov/ccbn/bmp-boaters.pdf -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.clr.pdx.edu/publications/files/OR_ANS_Plan.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Idaho: http://www.idahoag.us/Categories/Environment/InvasiveSpeciesCouncil/documents/Idaho%20Aquatic%20Nuisance%20Species%20Plan.pdf
E. Participate in ESA Consultation	4/1/2016	3/31/2017	Inactive	Work may include drafting BA, providing copy of Section 10, 4(d), or 6 permit, etc., or submitting Hatchery Genetic Management Plan to BPA for ESA consultation initiation, and providing input for the ensuing consultation.
F. Provide information for Section 106 Cultural review			Canceled	
G. Plan for field inventory			Canceled	
H. Cultural resource surveys			Canceled	
Deliverable: I. Produce Environmental Compliance Documentation		4/30/2016	Inactive	<i>See the Deliverable Specification above</i>

C: 119. Manage and Administer Projects

- Title:** Provide Pikeminnow Management Program contractual and fiscal oversight
- Description:** Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
- Deliverable Specification:** All administrative tasks shall be fulfilled on time and with quality products. Timely responses to requests for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery is expected.



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Attach initial FISMA Compliance Attestation (BPA risk category Low)	4/1/2016	4/1/2016	Canceled	
B. Confirm that FISMA compliance documentation for any subsequent contract is current	11/1/2016	11/15/2016	Canceled	
C. Begin drafting contract renewal documents and conduct internal review as needed	9/1/2016	10/1/2016	Inactive	Your statement of work, line-item budget, and (if required) property inventory for your next contract are due to BPA at least 5 months prior to the contract start date (longer if your internal processes require more time to get the contract signed and in place prior to the start date).
D. Submit contract renewal package (SOW, Excel budget, property inventory) to BPA COTR	10/1/2016	11/1/2016	Inactive	Once your statement of work (SOW) in Pisces is complete, and you have attached your line-item budget (LIB) and property inventory (PI) (if required), click the "Submit" button on the SOW tab to notify your COTR the package is ready for review.
E. Address comments and revise SOW, LIB, and PI as needed to get BPA manager approval	12/1/2016	12/31/2016	Inactive	Once your COTR and his or her BPA manager have reviewed your contract renewal package and returned any comments to you, you will need to provide responses and changes as needed to achieve approval from the BPA manager, who will then forward the package to the Contracting Officer. This should be completed at least two months prior to the next contract start date, but may need to be 3 or 4 months depending on your internal processing time for contract signatures. If you have subcontracts that need to be signed prior to the contract start, it should be a minimum of 4 months.
F. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/2/2016	11/30/2016	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
G. Accrual - Submit September estimate to BPA	8/10/2016	9/10/2016	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
H. Facilitate inputting Cost Share information into Pisces at the Project level	10/1/2016	11/15/2016	Inactive	I am the sole contractor under this project. I will enter previous federal FY's Cost Share information on the Project's Cost Share tab by Nov 15. (Milestone starts Sep. 30 and ends Nov. 15)
I. Comply with all applicable federal, state, tribal and local safety requirements, including reporting	4/1/2016	3/31/2017	Inactive	As described in the contract's Terms and Conditions, the contract manager and contractor shall comply with all applicable federal, state, tribal and local safety laws, rules, regulations and requirements.
Deliverable: J. All administrative tasks fulfilled with timely quality products		3/31/2017	Inactive	<i>See the Deliverable Specification above</i>

D: 122. Provide Technical Review

- Title:** Prepare biological opinion data computations, salmonid catch reporting and budget preparations
- Description:** Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.
- Deliverable Specification:** Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Attend review meetings	6/1/2016	3/31/2017	Inactive	Schedule and administer monthly meetings of the Northern Pikeminnow program. Include participation by ODFW, WDFW, BPA and marketing contractor as appropriate
B. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2016	9/30/2016	Inactive	Compile and submit weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
Deliverable: C. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2017	Inactive	<i>See the Deliverable Specification above</i>

E: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Television promotion, Sportsman's Show booths, and program brochure and print media. This may be done partially under a subcontract.
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths. Develop program promotion materials for print and other media outlets.
Planned Metrics: # of general public reached: 2000
Locations: 1
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		3/31/2017	Inactive	<i>See the Deliverable Specification above</i>

F: 158. Mark/Tag Animals

Title: Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals
Description: Collect pikeminnow for tagging with spaghetti tags and PIT Tags for population and evaluation studies for the Northern Pikeminnow Management Program. This will be done under a subcontract.
Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.
Planned Metrics: * Primary R, M, and E Focal Strategy : Multiple Strategies
* Primary R, M, and E Type : Status and Trend Monitoring
* Secondary R, M, and E Type : Action Effectiveness Monitoring
* Secondary R, M, and E Focal Strategy : Predation
* # fish tagged with PIT: 1300
Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Order PIT tags in TDI system	9/1/2016	10/31/2016	Inactive	Submit tag request in the Tag Distribution and Inventory application (TDI) at http://www.ptagis.org/services/tag-distribution-inventory indicating when the tags are needed (one or multiple shipments). Tag orders should be placed during September and October for shipment any time during the fiscal year. Funding for the tags occurs at the project level.
C. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snake	4/1/2016	7/31/2016	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to pikeminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: D. Collect and tag pikeminnow with spaghetti tags and PIT tags for program evaluation studies.		7/31/2016	Inactive	See the Deliverable Specification above

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2016 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Planned Metrics:

- * Primary R, M, and E Focal Strategy : Multiple Strategies
- * Primary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Type : Status and Trend Monitoring
- * Secondary R, M, and E Focal Strategy : Multiple Strategies

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program Website

Protocol: Predation Modeling (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2016	4/30/2016	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2016	3/31/2017	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2017	3/31/2017	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Coordinate stations and operating times, staff and train registration clerks for the 20 statio	4/1/2016	9/30/2016	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2015 season and their times of operation. Set stations to operate in 2015 and their times of operation to maximize station open times in relation to catch and cost efficiency.
F. Provide program and fishery data to participants and interested parties at the stations	5/1/2016	10/31/2016	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 20 program stations.
G. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2016	11/30/2016	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: H. : Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/30/2016	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations

Description: This work element addresses running the 19 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.

Deliverable Specification: Operate the 19 registration/creel check stations on the Columbia and Snake rivers from May 1, 2016 through September 30, 2016. Selected stations may remain open until mid-October if conditions warrant.

Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** DESCHUTES

State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER

County: SHERMAN **HUC6 Name:**



Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2016	9/30/2016	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 19 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2016	9/30/2016	Inactive	Hire, train and supervise the clerks for the 19 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2016	9/30/2016	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		10/15/2016	Inactive	<i>See the Deliverable Specification above</i>

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2016 Sport Reward Fund
Description: The reward fund used to pay regular and tag vouchers issued to P keminnow Sport Reward anglers. The 19 registration/creel stations utilized in the program are entered in the location fields.
Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook - All Populations | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations | Chum - Columbia River ESU
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:**
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2016	11/15/2016	Inactive	Manage voucher payment program daily, and pay every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Pikeminnow Sport Reward Fund		11/15/2016	Inactive	<i>See the Deliverable Specification above</i>

J: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2016 pikeminnow removals on reduction in salmonid predation
Description: Determine the exploitation rates for the various sectors of the fishery in 2016. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of pikeminnows. This will be done under a subcontract.
Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2016 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.
Planned Metrics:
 * Primary R, M, and E Focal Strategy : Multiple Strategies
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Strategy : Multiple Strategies



Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** DESCHUTES
State: OR **HUC5 Watershed:** LOWER DESCHUTES RIVER
County: SHERMAN **HUC6 Name:** LOWER DESCHUTES RIVER
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (accessible)
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) v1.0
Protocol Owner: Steve Williams **Protocol State:** Draft

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2016	4/30/2016	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2016	3/31/2017	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2017	3/31/2017	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Compute 2016 Northern P keminnow exploitation rates by program areas and estimate reduction in	5/15/2016	3/1/2017	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2016 season and report progress monthly and final end of season exploitation rates for the fishery and program areas. Determine reduction in salmonid predation in relation to pre program evaluation levels
F. Examine p keminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2016	3/1/2017	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
G. Study predator compensatory responses to pikeminnow removals	10/1/2016	3/1/2017	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response to continued removal of Northern pikeminnows.
Deliverable: H. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		3/31/2017	Inactive	See the Deliverable Specification above

K: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries



Description: Monitor responses of p keminnow, walleye and smallmouth bass to the continuing removals of pikeminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis. This will be done under a subcontract.

Deliverable Specification: Evaluate the response of Northern P keminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Multiple Strategies
 * Primary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Type : Status and Trend Monitoring
 * Secondary R, M, and E Focal Strategy : Predation

Locations:
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: **NPCC Subbasin:**
State: **HUC5 Watershed:**
County: **HUC6 Name:**

Salmonid ESUs Present:

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website

Protocol: Biological Evaluations (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft

Area of Inference:

Name	Value
Latitude, Longitude	45.638639, -121.108806

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org	4/1/2016	4/30/2016	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2016	3/31/2017	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2017	Inactive	<i>See the Deliverable Specification above</i>

L: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams

Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for p keminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May through October, 2016. Evaluate the potential for dam angling at other Columbia and Snake River Hydropower facilities. This may be done partially under a subcontract.

Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1, 2016 - October, 2016

Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 2

Primary Focal Species: Chinook - Deschutes River Summer/Fall ESU | Chinook - Mid-Columbia River Spring ESU | Chinook - Snake River Fall ESU | Chinook - Snake River Spring/Summer ESU | Chinook - Snake River Spring/Summer | Chinook - Upper Columbia River Spring ESU | Chinook - Upper Columbia River Summer/Fall ESU | Sockeye - All Populations

Country: US **NPCC Subbasin:** Multiple
State: WA **HUC5 Watershed:** Multiple
County: KLICKITAT **HUC6 Name:**

Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2016	4/30/2016	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff (completion can be based on pre-existing environmental documentation from BPA).
B. Evaluate opportunity for Dam Angling at other Columbia and Snake River Facilities	5/1/2016	10/1/2016	Inactive	Evaluate the opportunity for additional dam angling and subsequent p keminnow removal at other Columbia and Snake River Hydropower facilities.
Deliverable: C. Dam Angling at The Dalles and John Day dams.		10/15/2016	Inactive	<i>See the Deliverable Specification above</i>

M: 132. Produce (Annual) Progress Report

Title: PLACEHOLDER: Submit RME Tech Report for Calendar year 2015

Description: The milestones for this WE will be cancelled when the CY 2015 RM&E Technical Report is uploaded under contract 68321.

The progress report summarizes the project goal, objectives, hypotheses (for research), completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or any ramping up or ramping down of contract components or of the project as a whole.

RM&E Technical Progress reports must conform to BPA guidelines. See the "RME Technical Reporting" link at: <https://www.cbfish.org/Help.mvc/GuidanceDocuments>.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Planned Metrics:

- * Start date of reporting period : 1/1/2015
- * End date of reporting period : 12/31/2015

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Completed Annual Report		5/31/2016	Inactive	<i>See the Deliverable Specification above</i>

N: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2016

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2015. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Planned Metrics:

- * Start date of reporting period : 1/1/2016
- * End date of reporting period : 12/31/2016



Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Prepare for RM&E Technical Report. Review the 2016 guidance & template	11/15/2016	12/1/2016	Inactive	Review the newly-revised guidance & template for your RME Technical Report. BPA Fish and Wildlife project sponsors who have the following work elements in their contracts are required to complete a RM&E technical report: 156 Develop RM&E Methods and Designs, 157 Collect/Generate/Validate Field and Lab Data, 158 Mark and Tag Animals, and/or 162 Analyze/Interpret Data. Reports must show cumulative results and synthesis for the duration data collection/analysis studies. Final RME reports are due in March to align with regulatory reporting timelines. (Milestone start/end: August 1 - September 14)
B. Distribute Progress Report for Internal Contractor Review	12/1/2016	1/15/2017	Inactive	Internal review will be conducted before being reviewed externally or being uploaded.
C. Distribute Progress Report for External Review to [Insert external review entity]	1/2/2017	1/31/2017	Inactive	External review of the report will be conducted by WDFW and ODFW before being uploaded.
D. RM&E Technical: Upload draft RM&E Technical Report (MS Word) for BPA review	1/2/2017	2/15/2017	Inactive	Upload your draft RM&E report into the Pisces Attachments tab as an MS Word document as a "Technical, Draft" for BPA review. BPA will review the draft RM&E report. If your Word file is too big to be uploaded, contact Pisces Support (support@cbfish.org). For more information on structure and content of your report, please use the newly-revised guidance & template for RME Reports located at https://www.cbfish.org/Help.mvc/GuidanceDocuments . (Milestone start/end: September 15 - January 15).
E. RM&E Technical: Upload finalized RM&E Technical Report (MS Word) for BPA to publish	3/1/2017	3/15/2017	Inactive	Address any BPA comments on the draft and re-upload finalized report into the Pisces Attachments tab as an MS Word document as a "Technical, draft." (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF.) (Milestone start/end: Jan 16 - Mar 15)
Deliverable: F. Completed Annual Report		3/31/2017	Inactive	See the Deliverable Specification above

O: 202. Produce BiOp RPA Report

Title: BiOp RPA Report for CY 2016

Description: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, these reports are required to be completed online. If desired, the required information can be prepared in MS Word, and pasted into cbfish. For more guidance see https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf.

Deliverable Specification: The online BiOp RPA report in cbfish (<https://www.cbfish.org/BiologicalOpinionAction.mvc/Index/2014/BiOpRpaStatus>) should include the data, analyses, and data management completed no later than December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the scale analyses, you will report the preliminary data (# of redds), but not (incomplete) age distributions of carcasses, which would be reported in the subsequent CY report.

For each RPA, follow the directions in cbfish for each of the three sections and, input completed graphical or tabular data, accompanied by any complete explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Download RPA questions from cbfish.org	12/1/2016	12/31/2016	Inactive	To prepare for your RPA report, 1) Go to www.cbfish.org and log in, 2) Navigate to your project and select "BiOp Annual Report" from the menu on the left, 3) Click on "Input Needed" for each applicable RPA to find your RPA reporting requirements so you will know how much time to set aside for this task. You may also click the "download RPA doc" button to get all RPA questions in one MS Word document. 4) Use "Request Review" link to email COTR or BPA RM&E RPA lead to request help or for review of draft content. For further guidance, see: https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf (Milestone start/end: July 1 – September 30)
B. Draft calendar year report in cbfish.org	1/2/2017	2/28/2017	Inactive	For guidance on completing your report, see: https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf . If you have questions or would like BPA to review your draft, you may email RMEsupport@bpa.gov and your COTR to send them your working draft in Word or notify them to review in cbfish.org by using the "Request Review" email icon link to e-mail your COTR & BPA RM&E RPA lead. (Milestone start/end: September 30 - February 28)
C. Finalize calendar year report in cbfish.org and click Publish by March 15	2/15/2017	3/15/2017	Inactive	The final version is due by March 15. (Milestone start/end: December 31 - March 15)
Deliverable: D. Submit BiOp RPA Report in cbfish.org		3/15/2017	Inactive	<i>See the Deliverable Specification above</i>

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:
<http://efw.bpa.gov/IntegratedFWP/InadvertentDiscoveryProcedure.pdf>

Northern Pikeminnow 2016 Budget Summary		
Project 1990-077-00, Grant 71866		
April 1, 2016 to March 31, 2017		
443A.16/443N.16	PSMFC Prog. Management & Sport Reward Fund	\$ 1,823,277
443B.16	PSMFC WA Creel Station Field Support	\$ 364,482
443C.16	WDFW Predator Control	\$ 988,385
443D.16	ODFW Predator Control	\$ 869,516
443E.16	PSMFC Dam Angling	\$ 55,341
443E1.16	WDFW Dam Angling	\$ 70,825
		\$ 4,171,826

Pacific States Marine Fisheries Commission				
Northern Pikeminnow 2016-2017 Budget Summary				
Project 1990-077-00, Grant 71866				
April 1, 2016 to March 31, 2017				
PSMFC Program Management Component of the 2016 NPMP				
A. Personnel				
		Mos	Rate	
1. Program Administrator		6	\$10,755	\$64,530
2. Data Entry Supervisor		6	\$6,001	\$36,006
3. Data Entry Clerk		6	\$4,223	\$25,338
4. Administrative Specialist		6	\$4,473	\$26,838
			Subtotal Personnel	\$152,712
Health Care		24	\$810	\$19,440
Benefits	34% of 1 salary			\$21,940
Benefits	26% of 2-4 salaries			\$22,927
			Subtotal Benefits	\$44,867
			Total Personnel	\$217,019
B. Travel				
Airfare/Car Rental		3 trips @	\$500	\$1,500
Mileage		2754 miles @	\$0.540	\$1,487
Per Diem/Lodging		8 days @	\$129	\$1,032
			Subtotal Travel	\$4,019
			Total Travel	\$4,019
C. Services & Supplies				
Supplies				
	Mailing			\$4,200
	Office Supplies			\$3,150
	Trade Show Booth Preparation/Supplies			\$2,620
			Subtotal Supplies	\$9,970
Services				
	Telephone (voucher hotline & data entry)			\$2,625
	Postage, Photocopying			\$2,363
	P.O. Box Rental			\$235
	Office Rents	6 mo. @	\$2,345	\$14,070
	Trade Show Booth Rental Space - 5 Shows			\$4,000
			Subtotal Services	\$23,293
			Total Services & Supplies	\$33,263
D. Contractual Services				
	Program Promotion & Outreach			\$35,800
	Reprinting of Vouchers, Tag and Data Collection Forms			\$10,000
			Subtotal Contractual	\$45,800
			Total Contractual Services	\$45,800
PSMFC Direct Costs				
				\$300,101
PSMFC Indirect Costs	@	11.82%		\$35,472
Total PSMFC Costs (443A)				
				\$335,573
Sport Reward Fund				\$1,487,704
			TOTAL PSMFC Project Cost	\$1,823,277

Pacific States Marine Fisheries Commission					
Northern Pikeminnow 2016 Budget Summary					
Project 1990-077-00, Grant 71866					
April 1, 2016 to March 31, 2017					
PSMFC Component of the 2016 NPMP Field Operations					
A. PERSONNEL					
		Quantity		Salaries	Dollars
Sci. Tech (PDX/Vancouver area)		28	months	\$2,930	\$82,040
(b) (6)					
Sci. Tech (Other areas)		24	months	\$2,762	\$66,288
(b) (6)	1 pt temp)				
Subtotal Personnel					\$148,328
Benefits Temp staff		12%	of salaries		\$17,799
Total Personnel					\$166,127
B. TRAVEL					
Bridge Toll		450	trips	\$1	\$450
GSA Lease (Trucks)		84	months	\$239	\$20,076
GSA Lease (Render)		12	months	\$364	\$4,368
GSA Lease (Vans)		96	months	\$229	\$21,984
GSA mileage (Trucks)		100,000	miles	\$0.265	\$26,500
GSA mileage (Render)		6,500	miles	\$0.477	\$3,101
GSA mileage (Vans)		97,000	miles	\$0.254	\$24,638
Subtotal Travel					\$101,117
Total Travel					\$101,117
C. SERVICES & SUPPLIES					
Supplies					
Office Supplies		1	season	\$1,500	\$1,500
Field supplies		10	crews	\$600	\$6,000
Promotional supplies		1	season	\$2,000	\$2,000
Printing (Reg forms)		45,000	forms	\$0.160	\$7,200
Printing (Vouchers)		30,000	forms	\$0.225	\$6,750
Fish handling supplies		1	season	\$4,000	\$4,000
Subtotal Supplies					\$27,450
Services					
Cell Phones 15 phones @ 12 months		180	months	\$35	\$6,300
High Speed Internet service		12	months	\$105	\$1,260
Field office lease - Dallesport		6	months	\$600	\$3,600
Computer/printer supplies & maintenance		1	year	\$1,000	\$1,000
Safety/Training/Equipment		1	year	\$1,000	\$1,000
PIT tag scanner supplies & maintenance		1	year	\$3,000	\$3,000
Document shredding		1	year	\$500	\$500
Fish rendering/Cold storage		1	season	\$14,000	\$14,000
Fed Ex shipping		1	season	\$600	\$600
Subtotal Services					\$31,260
Total Services & Supplies					\$58,710
Total PSMFC Direct Costs					\$325,954

PSMFC Indirect			11.82%	of A, B, and C				\$38,528
		Total Program Cost						\$364,482

Pacific States Marine Fisheries Commission						
Northern Pikeminnow 2016 Budget Summary						
Project 1990-077-00, Grant 71866						
April 1, 2016 to March 31, 2017						
Subcontract - WDFW Component of the 2016 NPMP Field Operations						
A. PERSONNEL						
			Quantity		Salaries	Dollars
Permanent - WDFW						
a)Project Manager			1	month	\$5,943	\$5,943
b)Project Leader, Bio III			12	months	\$5,657	\$67,884
c)Fish Bio II - Pasco			12	months	\$4,762	\$57,144
d)Fish Bio I - PIT Tag Lead			12	months	\$3,369	\$40,428
e)Sci Tech	(Vancouver - WFAR, logistics)		6	months	\$3,655	\$21,930
f)Sci Tech IV - Mid-River			9	months	\$4,208	\$37,872
g)Sci Tech C/S	(12*6 mo Crew Leaders)		72	months	\$3,112	\$224,064
h)Sci Tech	(data entry)		9	months	\$3,369	\$30,321
					Subtotal Personnel	\$485,586
Benefits						
Permanent Yearly Staff @18.65%*						\$90,562
*(Benefit calculation based on OASI=6.2%, retirement=11%, medicare=1.45% of salary)						
Permanent Yearly Staff Health + L&I**						\$136,229
**(Benefit calculation based on avg. \$148.76/mo L&I + avg \$875.52/mo health)						
					Subtotal Benefits	\$226,791
Total Personnel						\$712,377
B. TRAVEL						
Per Diem (avg rate includes lodging)			18	days	\$165	\$2,970
DFW Vehicle mileage/maintenance			1	year	\$4,000	\$4,000
Mileage reimbursement			3,500	miles	\$0.575	\$2,013
Total Travel						\$8,983
C. SERVICES & SUPPLIES						
Supplies						
Office Supplies			1	season	\$3,500	\$3,500
Field materials/supplies			6	months	\$1,100	\$6,600
Fish handling supplies			6	months	\$500	\$3,000
					Subtotal Supplies	\$13,100
Services						
WDFW field facility charges (internet, util)			12	months	\$475	\$5,700
Vehicle insurance (Supplemental)			1	season	\$13,000	\$13,000
Safety/Training			1	year	\$1,000	\$1,000
					Subtotal Services	\$19,700
Total Services & Supplies						\$32,800
Total WDFW Direct Costs						\$754,160
WDFW Indirect						\$220,290
29.21% of A, B, and C						
WDFW Project Costs						\$974,450
PSMFC Admin Fee						\$13,935
1.43%						
Total Project Cost						\$988,385

Northern Pikeminnow Management Program
 Budget for the Oregon Department of Fish and Wildlife
 FY 2016; ODFW CDC: 764003-28 BPA Project No.: 1990-077-00 Grant 71866

1. Personnel					
	Quantity	Unit	Rate	Total	
(b) (6)					
EBA Seasonal (2820.860)	4	months	\$ 2,220	\$	8,882
EBA Seasonal (2820.865)	4	months	\$ 2,220	\$	8,882
EBA Seasonal (2820.872)	4	months	\$ 2,220	\$	8,882
EBA Seasonal (2820.876)	4	months	\$ 2,220	\$	8,882
EBA Seasonal (2820.879)	4	months	\$ 2,220	\$	8,882
EBA Seasonal (0507.122)	3	months	\$ 2,220	\$	6,661
EBA Seasonal (2820.868)	3	months	\$ 2,220	\$	6,661
EBA Seasonal (2820.874)	3	months	\$ 2,220	\$	6,661
EBA Seasonal (2820.880)	3	months	\$ 2,220	\$	6,661
	TOTALS			\$	330,621
2. Benefits					
	Quantity	Unit	Rate	Total	
(b) (6)					
EBA Seasonal (2820.860)	4	months	89.09%	\$	7,913
EBA Seasonal (2820.865)	4	months	89.09%	\$	7,913
EBA Seasonal (2820.872)	4	months	89.09%	\$	7,913
EBA Seasonal (2820.876)	4	months	89.09%	\$	7,913
EBA Seasonal (2820.879)	4	months	89.09%	\$	7,913
EBA Seasonal (0507.122)	3	months	89.09%	\$	5,934
EBA Seasonal (2820.868)	3	months	89.09%	\$	5,934
EBA Seasonal (2820.874)	3	months	89.09%	\$	5,934
EBA Seasonal (2820.880)	3	months	89.09%	\$	5,934
	TOTALS			\$	210,910
3. Travel					
	Quantity	Unit	Rate	Total	
Lodging	480	days	\$ 90	\$	43,200
Per Diem	541	days	\$ 53	\$	28,673
Sedan (vehicle rental)	3	months	\$ 115	\$	345
Sedan (fuel, oil changes, etc.)	3	months	\$ 60	\$	180
3/4 ton pickups (5; vehicle rental)	37	months	\$ 290	\$	10,730
3/4 ton pickups (5; fuel, oil changes, etc.)	37	months	\$ 305	\$	11,285
Vehicle repair	2	occurrences	\$ 1,000	\$	2,000
	TOTALS			\$	96,413
4. Services and Supplies					
	Quantity	Unit	Rate	Total	
Office Supplies	64	FTE months	\$ 17	\$	1,088
Sampling Equipment (PFDs, nets, gloves, etc.)	4	boats	\$ 550	\$	2,200
Rain Gear	3	sets	\$ 200	\$	600

Ruggedized tablet for field data entry		2	units	\$ 1,950	\$ 3,900
Boots		3	sets	\$ 100	\$ 300
Tagging Supplies		3	months	\$ 325	\$ 975
Lab Supplies (chemicals, nitrile gloves, etc.)		4	months	\$ 250	\$ 1,000
Boat Supplies (oil, propellers, batteries, etc.)		4	months	\$ 800	\$ 3,200
Data Mngt. Software (Pendragon or similar)		1	license(s)	\$ 600	\$ 600
Attendance to Professional Meeting		2	Attendees	\$ 800	\$ 1,600
Rite in the Rain Paper Data Sheets		15	Packages	\$ 34	\$ 510
Photocopier and Fax Rent		5	months	\$ 300	\$ 1,500
Northwest Region Utilities		1	@	\$ 1,500	\$ 1,500
Cellular Phone Service		40	months	\$ 25	\$ 1,000
Maint., Operation and Repair of Boats		192	days	\$ 120	\$ 23,040
	TOTALS				\$ 43,013
5. Total Direct Costs					\$ 680,957
6. Indirect Costs	25.89%				\$ 176,300
TOTAL ODFW Costs					\$ 857,257
7. PSMFC Admin Fee	1.43%				\$ 12,259
Total Project Cost					\$ 869,516

Pacific States Marine Fisheries Commission						
Northern Pikeminnow 2016 Budget Summary						
Project 1990-077-00, Grant 71866						
April 1, 2016 to March 31, 2017						
PSMFC Dam Angling Component of the 2016 NPM Control Program						
A. PERSONNEL				Quantity	Salaries	Dollars
Sci Tech (PSMFC)	(3 Crew members @ 4.5 mos. each)	13.5	months	\$2,762	\$37,287	
	(b) (6)					
Benefits						
PSMFC Temp staff		12%	of salaries		\$4,474	
Total Personnel						\$41,761
B. TRAVEL						
GSA Truck Lease		12	months	\$279	\$3,348	
GSA mileage (Truck)		8,000	miles	\$0.329	\$2,632	
Total Travel						\$5,980
C. SERVICES & SUPPLIES						
Supplies		5	months	\$200	\$1,000	
Services						
Cell Phones		5	months	\$60	\$300	
Safety training & equipment PSMFC		3	employees	\$150	\$450	
				Services Subtotal	\$750	
Total Services & Supplies						\$1,750
Total PSMFC Direct Costs						\$49,491
PSMFC Indirect	11.82%	of A, B, and C				\$5,850
Total PSMFC Project Costs						\$55,341

Pacific States Marine Fisheries Commission													
Northern Pikeminnow 2016 Budget Summary													
Project 1990-077-00, Grant 71866													
April 1, 2016 to March 31, 2017													
Subcontract - WDFW Dam Angling Component of the 2016 NPM Control Program													
A. PERSONNEL													
				Quantity		Salaries					Dollars		
	Sci Tech IV - Mid-River			3	months	\$4,208					\$12,624		
	Sci Tech (WDFW)	(Crew Leader)		5.5	months	\$3,062					\$16,841		
											Personnel Subtotal	\$29,465	
Benefits													
	Permanent Yearly Staff @ 18.65%*											\$5,495	
	*(Benefit calculation based on OASI=6.2%, retirement=11%, medicare=1.45% of salary)												
	Permanent Yearly Staff Health + L&I**								8.5	months	\$1,024.28		\$8,706
	**(Benefit calculation based on avg. \$148.76/mo L&I + avg. \$875.52/mo health)												
											Benefits Subtotal	\$14,201	
	Total Personnel											\$43,666	
B. TRAVEL													
	GSA Supplemental Insurance (WDFW)								1	year	\$2,225		\$2,225
	Total Travel											\$2,225	
C. SERVICES & SUPPLIES													
Supplies													
	Angling supplies - bait/tackle (WDFW)								5	months	\$1,600		\$8,000
Services													
	Safety training & equipment WDFW								1	employee	\$150		\$150
	Total Services & Supplies WDFW											\$8,150	
	Total WDFW Direct Costs											\$54,041	
	WDFW Indirect								29.21%	A, B, and C			\$15,785
	Total WDFW Project Cost											\$69,826	
	PSMFC Admin Fee								1.43%				\$999
	Total Project Cost											\$70,825	



Statement of Work Report

Data Current as of: 03/10/2017
 Report Printed: 03/10/2017

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 75527
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$4,471,241 **Perf. Period:** 4/1/2017 - 3/31/2018
Contract Type: Grant **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 75527
SOW Validation: Last validated 02/15/2017 with 0 problems, and 0 reviewable items
Contract Documents: [Property Inventory \(02/14/2017\)](#) 2017 Property Inventory

[Budget - Contract \(02/14/2017\)](#) 2017 Pikeminnow Budget

Contract Description:

The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. 2016 was a very successful year for the NPMP with a total of 223,419 pikeminnow removed via the Sport Reward and Dam Angling programs. Pikeminnow removals resulted in meeting the programs exploitation rate goals coming in at just over 12% for 2016. We anticipate conducting dam angling program again in 2017.



Contacts:

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John Skidmore	F&W Approver	Bonneville Power Administration	(503) 230-5494 / NA	jtskidmore@bpa.gov	905 NE 11th Ave. Portland OR 97232
Brad James	Interested Party	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
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Catherine Al-Sheikhly	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3224 / NA	kalsheikhly@psmfc.org	
Michael Arredondo	Administrative Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	marredondo@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202
Adam Storch	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6069 / NA	adam.j.storch@state.or.us	971-673-6069 Salem OR

Work Element Budget Summary:

<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$2,012	(0 %)
B : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight		\$290,631	(7 %)
C : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations		\$25,039	(1 %)



<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
D : 99. Outreach and Education - Promotion/Sport Show Outreach		\$40,241	(1 %)
E : 158. Mark/Tag Animals - Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals	*	\$424,768	(10 %)
F : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2017 Sport Reward Fishery Data Collection/Processing	*	\$76,011	(2 %)
G : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	*	\$1,291,454	(29 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2017 Sport Reward Fund	*	\$1,788,036	(40 %)
I : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2017 pikeminnow removals on reduction in salmonid predation	*	\$174,378	(4 %)
J : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries		\$228,033	(5 %)
K : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	*	\$126,166	(3 %)
L : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$894	(0 %)
M : 132. Produce (Annual) Progress Report - PLACEHOLDER: Submit RME Tech Report for Calendar year 2016		\$0	(0%)
N : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2017		\$1,789	(0 %)
O : 202. Produce BiOp RPA Report - BiOp RPA Report for CY 2017		\$1,789	(0 %)
Total:		\$4,471,241	

* Environmental Compliance (EC) needed before work begins.

Statement of Work Report



Work Element Details

A: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance
Description: Produce Environmental Compliance Documentation
Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Work Element Budget: \$2012.00 (0 %)
Planned Metrics: * Are herbicides used as part of work performed under this contract?: No
 * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2017	3/31/2018	Inactive	Work done to obtain permits such as Sec. 401 or 404 (including RGP process), shoreline, NPDES, or any other required federal, state, or local permits.
Deliverable: B. Produce Environmental Compliance Documentation		3/31/2018	Inactive	<i>See the Deliverable Specification above</i>

B: 119. Manage and Administer Projects

Title: Provide Pikeminnow Management Program contractual and fiscal oversight
Description: Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
Deliverable Specification: All administrative tasks shall be fulfilled on time and with quality products. Timely responses to requests for more information are required. Proactive communication between the contractor and BPA's Contracting Officer (CO) and Contracting Officer Technical Representative (COTR) is required if a significant lag in scheduled delivery is expected.
Work Element Budget: \$290631.00 (7 %)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Begin drafting contract renewal documents and conduct internal review as needed	10/1/2017	11/1/2017	Inactive	Your statement of work, line-item budget, and (if required) property inventory for your next contract are due to BPA at least 5 months prior to the contract start date (longer if your internal processes require more time to get the contract signed and in place prior to the start date).
B. Submit contract renewal package (SOW, Excel budget, property inventory) to BPA COTR	10/15/2017	11/1/2017	Inactive	Once your statement of work (SOW) in Pisces is complete, and you have attached your line-item budget (LIB) and property inventory (PI) (if required), click the "Submit" button on the SOW tab to notify your COTR the package is ready for review.
C. Address comments and revise SOW, LIB, and PI as needed to get BPA manager approval	11/1/2017	1/15/2018	Inactive	Once your COTR and his or her BPA manager have reviewed your contract renewal package and returned any comments to you, you will need to provide responses and changes as needed to achieve approval from the BPA manager, who will then forward the package to the Contracting Officer. This should be completed at least two months prior to the next contract start date, but may need to be 3 or 4 months depending on your internal processing time for contract signatures. If you have subcontracts that need to be signed prior to the contract start, it should be a minimum of 4 months.
D. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/1/2017	11/30/2017	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
E. Accrual - Submit September estimate to BPA	8/10/2017	9/10/2017	Inactive	Provide BPA with an estimate of contract work that will occur prior to September 30 but will not be billed until October 1 or later. Data must be input in to Pisces by September 10 (begins Aug 10, ends Sep 10).
F. Facilitate inputting Cost Share information into Pisces at the Project level	10/1/2017	11/15/2017	Inactive	I am the sole contractor under this project. I will enter previous federal FY's Cost Share information on the Project's Cost Share tab by Nov 15. (Milestone starts Sep. 30 and ends Nov. 15)
G. Comply with all applicable federal, state, tribal and local safety requirements, including reporting	4/1/2017	3/31/2018	Inactive	As described in the contract's Terms and Conditions, the contract manager and contractor shall comply with all applicable federal, state, tribal and local safety laws, rules, regulations and requirements.
Deliverable: H. All administrative tasks fulfilled with timely quality products		3/31/2018	Inactive	<i>See the Deliverable Specification above</i>

C: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations

Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.

Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.

Work Element Budget: \$25039.00 (1 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2017	10/31/2017	Inactive	Compile and submit weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
Deliverable: B. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2018	Inactive	<i>See the Deliverable Specification above</i>



D: 99. Outreach and Education

Title: Promotion/Sport Show Outreach
Description: Program promotion through fishing clinics, Television promotion, Sportsman's Show booths, and program brochure and print media. This may be done partially under a subcontract.
Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths. Develop program promotion materials for print and other media outlets.
Work Element Budget: \$40241.00 (1 %)
Planned Metrics: # of general public reached: 2000
Locations: 1
Country: US **NPCC Subbasin:** Deschutes
State: OR **HUC5 Watershed:** Cedar Island-Deschutes River
County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. : Program promotion		3/31/2018	Inactive	See the Deliverable Specification above

E: 158. Mark/Tag Animals

Title: Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals
Description: Collect pikeminnow for tagging with spaghetti tags and PIT Tags for population and evaluation studies for the Northern Pikeminnow Management Program. This will be done under a subcontract.
Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.
Work Element Budget: \$424768.00 (10 %)
Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
Locations: 1
Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations
Country: US **NPCC Subbasin:** Deschutes
State: OR **HUC5 Watershed:** Cedar Island-Deschutes River
County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	5/1/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Order PIT tags in TDI system	9/1/2017	10/31/2017	Inactive	Submit tag request in the Tag Distribution and Inventory application (TDI) at http://www.ptagis.org/services/tag-distribution-inventory indicating when the tags are needed (one or multiple shipments). Tag orders should be placed during September and October for shipment any time during the fiscal year. Funding for the tags occurs at the project level.
C. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2017	7/31/2017	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: D. Collect and tag pikeminnow with spaghetti tags and PIT tags for program evaluation studies.		7/31/2017	Inactive	See the Deliverable Specification above



F: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2017 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Work Element Budget: \$76011.00 (2 %)

Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
* Primary R, M, and E Type : Status and Trend Monitoring

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
Reward Fishery Program
Website

Protocol: Predation Modeling (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	4/30/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org			Canceled	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2017	3/31/2018	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2018	3/31/2018	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Coordinate stations and operating times, staff and train registration clerks for the 19 statio	4/1/2017	11/30/2017	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2015 season and their times of operation. Set stations to operate in 2015 and their times of operation to maximize station open times in relation to catch and cost efficiency.
F. Provide program and fishery data to participants and interested parties at the stations	5/1/2017	10/31/2017	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the 20 program stations.
G. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2017	11/30/2017	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: H. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/30/2017	Inactive	<i>See the Deliverable Specification above</i>

G: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations

Description: This work element addresses running the 19 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.

Deliverable Specification: Operate the 19 registration/creel check stations on the Columbia and Snake rivers from May 1, 2017 through August 31, 2017. Operation of the Stations may continue beyond 8/31/17 depending on the availability of funding.

Work Element Budget: \$1291454.00 (29 %)

Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** Deschutes



State: OR HUC5 Watershed: Cedar Island-Deschutes River
 County: Sherman HUC6 Name: Gordon Canyon-Deschutes River
 Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	4/30/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2017	9/30/2017	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 19 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2017	9/30/2017	Inactive	Hire, train and supervise the clerks for the 19 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2017	9/30/2017	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		9/30/2017	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2017 Sport Reward Fund
Description: The reward fund used to pay regular and tag vouchers issued to P keminnow Sport Reward anglers. The 19 registration/creel stations utilized in the program are entered in the location fields.
Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.
Work Element Budget: \$1788036.00 (40 %)
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook - All Populations | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations | Chum - Columbia River ESU
Country: US **NPCC Subbasin:** Deschutes
State: OR **HUC5 Watershed:** Cedar Island-Deschutes River
County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	4/30/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2017	11/15/2017	Inactive	Manage voucher payment program daily, and pay every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Pikeminnow Sport Reward Fund		11/15/2017	Inactive	<i>See the Deliverable Specification above</i>

I: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2017 pikeminnow removals on reduction in salmonid predation
Description: Determine the exploitation rates for the various sectors of the fishery in 2017. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of pikeminnows. This will be done under a subcontract.



Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2017 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.

Work Element Budget: \$174378.00 (4 %)

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Action Effectiveness Monitoring

Locations:
1

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website

Protocol: Biological Evaluations (1990-077-00) v1.0

Protocol Owner: Steve Williams **Protocol State:** Draft



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	4/30/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org			Canceled	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Secure data back-up	4/1/2017	3/31/2018	Inactive	Minimum requirements: Hard copies of field sheets and original dataloggers secured against fire and flood. At least daily data back-up of electronic data on a separate hard drive. Secure cloud-based or off-site location data back-up to preclude catastrophic data loss at least weekly. More frequent cloud/off-site back-up is greatly encouraged. [Timing guidance: from beginning to end of contract]
D. Yearly upload of error-checked datasets	3/1/2018	3/31/2018	Inactive	Upload datasets with associated metadata to a publicly access ble site each year as soon as they have been QA/QC checked. This generally happens within 6 months for direct field-to-database input, but may be longer if laboratory analysis is required (e.g., scale reading or genetic analyses). If data is not QA/QCed within 1 year, data must be made access ble with acknowledgement of QA/QC limitations. Periods for dataset collection should be no longer than a year, and coincide with the logical biology of the data collection, which may not be on a calendar year. Example of a dataset: redd counts for one species for one season for a particular brood year. Dataset upload requirements apply to both original and derived data, which should be at a level of quality suitable for release to resource co-managers to make decisions – not the rigor required as if you were going to use the data for a peer-reviewed publication.
E. Compute 2016 Northern P keminnow exploitation rates by program areas and estimate reduction in	5/15/2017	3/1/2018	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the 2017 season and report progress monthly and final end of season exploitation rates for the fishery and program areas. Determine reduction in salmonid predation in relation to pre program evaluation levels
F. Examine p keminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2017	3/1/2018	Inactive	Analyze stomach contents of p keminnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
G. Study predator compensatory responses to pikeminnow removals	10/1/2017	3/1/2018	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response to continued removal of Northern pikeminnows.
Deliverable: H. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		3/31/2018	Inactive	<i>See the Deliverable Specification above</i>

J: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnows and other predators to sustained fisheries

Description: Monitor responses of p keminnow, walleye and smallmouth bass to the continuing removals of pikeminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis. This will be done under a subcontract.

Deliverable Specification: Evaluate the response of Northern P keminnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Work Element Budget: \$228033.00 (5 %)

Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
* Primary R, M, and E Type : Status and Trend Monitoring

Locations:

Primary Focal Species: Chinook - All Populations | Chum - Columbia River ESU | Coho - Lower Columbia River ESU | Sockeye - All Populations | Steelhead - All Populations



Country:
State:
County:
Salmonid ESUs Present:
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program Website
Protocol: Biological Evaluations (1990-077-00) v1.0
Protocol Owner: Steve Williams **Protocol State:** Draft
Area of Inference:

Name	Value
Latitude, Longitude	45.638639, -121.108806

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and Publish protocol, study design, and methods in monitoringmethods.org			Canceled	The Protocol (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2017	3/31/2018	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2018	Inactive	<i>See the Deliverable Specification above</i>

K: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams
Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for p keminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May through October, 2017. Evaluate the potential for dam angling at other Columbia and Snake River Hydropower facilities. This may be done partially under a subcontract.
Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1, 2017- October, 2017
Work Element Budget: \$126166.00 (3 %)
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 2
Primary Focal Species: Chinook - Deschutes River Summer/Fall ESU | Chinook - Mid-Columbia River Spring ESU | Chinook - Snake River Fall ESU | Chinook - Snake River Spring/Summer ESU | Chinook - Snake River Spring/Summer | Chinook - Upper Columbia River Spring ESU | Chinook - Upper Columbia River Summer/Fall ESU | Sockeye - All Populations
Country: US **NPCC Subbasin:** Multiple
State: WA **HUC5 Watershed:** Multiple
County: Klickitat **HUC6 Name:** Multiple
Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2017	4/30/2017	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Evaluate opportunity for Dam Angling at other Columbia and Snake River Facilities	5/1/2017	10/1/2017	Inactive	Evaluate the opportunity for additional dam angling and subsequent p keminnow removal at other Columbia and Snake River Hydropower facilities.
Deliverable: C. Dam Angling at The Dalles and John Day dams.		10/15/2017	Inactive	<i>See the Deliverable Specification above</i>

L: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA

Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Work Element Budget: \$894.00 (0 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2017 (4/1/2017 - 6/30/2017)	7/1/2017	7/15/2017	Inactive	
B. Jul-Sep 2017 (7/1/2017 - 9/30/2017)	10/1/2017	10/15/2017	Inactive	
C. Oct-Dec 2017 (10/1/2017 - 12/31/2017)	1/1/2018	1/15/2018	Inactive	
D. Final Jan-Mar 2018 (1/1/2018 - 3/31/2018)	3/17/2018	3/31/2018	Inactive	

M: 132. Produce (Annual) Progress Report

Title: PLACEHOLDER: Submit RME Tech Report for Calendar year 2016

Description: The milestones for this WE will be cancelled when the CY 2016 RM&E Technical Report is uploaded under contract 71866.

The progress report summarizes the project goal, objectives, hypotheses (for research), completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or any ramping up or ramping down of contract components or of the project as a whole.

RM&E Technical Progress reports must conform to BPA guidelines. See the "RME Technical Reporting" link at: <https://www.cbfish.org/Help.mvc/GuidanceDocuments>.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Work Element Budget: \$0.00 (0%)

Planned Metrics:

- * Start date of reporting period : 1/1/2016
- * End date of reporting period : 12/31/2016

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Completed 2016 Annual Report		5/1/2017	Inactive	<i>See the Deliverable Specification above</i>



N: 132. Produce (Annual) Progress Report

- Title:** Submit RM&E Annual Technical Report for Calendar Year 2017
- Description:** The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2015. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR.

Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://efw.bpa.gov/IntegratedFWP/technicalreports.aspx>.

If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.
- Deliverable Specification:** The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.
- Work Element Budget:** \$1789.00 (0 %)
- Planned Metrics:**
 - * Start date of reporting period : 1/1/2017
 - * End date of reporting period : 12/31/2017

Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Prepare for RM&E Technical Report. Review the revised (2014) guidance & template	11/15/2017	12/31/2017	Inactive	[DELETE THIS MILESTONE IF YOUR PROJECT DOES NOT INCLUDE ANY RM&E WORK ELEMENTS AND DOES NOT NEED TO PRODUCE AN RM&E TECHNICAL REPORT] Review the newly-revised guidance & template for your RME Technical Report. BPA Fish and Wildlife project sponsors who have the following work elements in their contracts are required to complete a RM&E technical report: 156 Develop RM&E Methods and Designs, 157 Collect/Generate/Validate Field and Lab Data, 158 Mark and Tag Animals, and/or 162 Analyze/Interpret Data. Reports must show cumulative results and synthesis for the duration data collection/analysis studies. Final RME reports are due in March to align with regulatory reporting timelines. (Milestone start/end: August 1 - September 14)
B. RM&E Technical: Upload draft RM&E Technical Report (MS Word) for BPA review	12/15/2017	1/15/2018	Inactive	[DELETE THIS MILESTONE IF YOUR PROJECT DOES NOT INCLUDE ANY RM&E WORK ELEMENTS AND DOES NOT NEED TO PRODUCE AN RM&E TECHNICAL REPORT] Upload your draft RM&E report into the Pisces Attachments tab as an MS Word document as a "Technical, Draft" for BPA review. BPA will review the draft RM&E report. If your Word file is too big to be uploaded, contact Pisces Support (support@cbfish.org). For more information on structure and content of your report, please use the newly-revised guidance & template for RME Reports located at https://www.cbfish.org/Help.mvc/GuidanceDocuments . (Milestone start/end: September 15 - January 15).
C. RM&E Technical: Upload finalized RM&E Technical Report (MS Word) for BPA to publish	3/1/2018	3/15/2018	Inactive	[DELETE THIS MILESTONE IF YOUR PROJECT DOES NOT INCLUDE ANY RM&E WORK ELEMENTS AND DOES NOT NEED TO PRODUCE AN RM&E TECHNICAL REPORT] Address any BPA comments on the draft and re-upload finalized report into the Pisces Attachments tab as an MS Word document as a "Technical, draft." (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF.) (Milestone start/end: Jan 16 - Mar 15)
Deliverable: D. Completed Annual Report		3/15/2018	Inactive	See the Deliverable Specification above



O: 202. Produce BiOp RPA Report

Title: BiOp RPA Report for CY 2017

Description: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, these reports are required to be completed online. If desired, the required information can be prepared in MS Word, and pasted into cbfish. For more guidance see https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf.

Deliverable Specification: The online BiOp RPA report in cbfish (<https://www.cbfish.org/BiologicalOpinionAction.mvc/Index/2014/BiOpRpaStatus>) should include the data, analyses, and data management completed no later than December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the scale analyses, you will report the preliminary data (# of redds), but not (incomplete) age distributions of carcasses, which would be reported in the subsequent CY report.

For each RPA, follow the directions in cbfish for each of the three sections and, input completed graphical or tabular data, accompanied by any complete explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Work Element Budget: \$1789.00 (0 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Lead project proponent will download RPA questions from cbfish.org	11/1/2017	1/15/2018	Inactive	To prepare for your RPA report, 1) Go to www.cbfish.org and log in, 2) Navigate to your project and select "BiOp Annual Report" from the menu on the left, 3) Click on "Input Needed" for each applicable RPA to find your RPA reporting requirements so you will know how much time to set aside for this task. You may also click the "download RPA doc" button to get all RPA questions in one MS Word document. 4) Use "Request Review" link to email COTR or BPA RM&E RPA lead to request help or for review of draft content. For further guidance, see: https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2014.pdf (Milestone start/end: July 1 – September 30)
B. Lead project proponent will draft calendar year report in cbfish.org	1/1/2018	2/28/2018	Inactive	For guidance on completing your report, see: https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2014.pdf . If you have questions or would like BPA to review your draft, you may email RMESupport@bpa.gov and your COTR to send them your working draft in Word or notify them to review in cbfish.org by using the "Request Review" email icon link to e-mail your COTR & BPA RM&E RPA lead. (Milestone start/end: September 30 - February 28)
C. Lead project proponent will finalize calendar year report in cbfish.org	2/15/2018	3/15/2018	Inactive	The final version is due by March 15. (Milestone start/end: December 31 - March 15)
Deliverable: D. Submit BiOp RPA Report in cbfish.org		3/15/2018	Inactive	See the Deliverable Specification above



Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:

<https://www.bpa.gov/efw/FishWildlife/InformationforContractors/IFCDocuments/InadvertentDiscoveryProcedure.pdf>

2017 Budget Summary
Grant No. 75527, PI 1990-077-00, Northern Pikeminnow
April 1, 2017 to March 31, 2018

1052A.17	PSMFC Prog. Management	\$	335,573
1052B.17	PSMFC WA Creel Station Field Support	\$	360,270
1052C.17	WDFW Predator Control	\$	990,139
1052D.17	ODFW Predator Control	\$	871,058
1052E.17	PSMFC Dam Angling	\$	55,341
1052F.17	WDFW Dam Angling	\$	70,824
1052N.17	Sport Reward Fund	\$	<u>1,788,036</u>
		\$	4,471,241

Northern Pikeminnow Management Program
Oregon Department of Fish and Wildlife (Program Evaluation)

FY 2017-18

ODFW CDC: 764003-29

BPA Project No.: 1990-077-00; BPA Grant #75527

PSMFC Job #: 1052D.17

1. Personnel

	Months	Hrs/Month	Hourly Rate	Monthly Rate	Total
PEMD Vacant (2020.540)	1.34	173.33	\$ 44.51	\$ 7,714	\$ 10,337
EBA Seasonal (0507.114)	3	173.33	\$ 14.07	\$ 2,439	\$ 7,317
EBA Seasonal (2820.879)	3	173.33	\$ 14.60	\$ 2,530	\$ 7,590
EBA Seasonal (2820.874)	3	173.33	\$ 14.60	\$ 2,530	\$ 7,590
EBA Seasonal (2820.868)	3	173.33	\$ 14.60	\$ 2,530	\$ 7,590
EBA Seasonal (2820.860)	4	173.33	\$ 14.07	\$ 2,439	\$ 9,756
EBA Seasonal (2820.865)	4	173.33	\$ 14.07	\$ 2,439	\$ 9,756
EBA Seasonal (2820.876)	4	173.33	\$ 15.67	\$ 2,716	\$ 10,864
EBA Seasonal (2820.872)	4	173.33	\$ 14.07	\$ 2,439	\$ 9,756
EBA Seasonal (2820.880)	4	173.33	\$ 14.07	\$ 2,439	\$ 9,756
TOTALS					\$ 349,017

2. Benefits

	Quantity	Unit	Rate	Total
PEMD Vacant (2020.540)	1.34	months	46.98%	\$ 2,856
EBA Seasonal (0507.114)	3	months	62.35%	\$ 4,562
EBA Seasonal (2820.879)	3	months	62.35%	\$ 4,732
EBA Seasonal (2820.874)	3	months	62.35%	\$ 4,732
EBA Seasonal (2820.868)	3	months	62.35%	\$ 4,732
EBA Seasonal (2820.860)	4	months	62.35%	\$ 6,083

(b) (6)

TOTALS \$ **201,019**

	Quantity	Unit	Rate	Total
3. Travel				
Lodging	451	days	\$ 90	\$ 40,590
Per Diem	542	days	\$ 53	\$ 28,726
Sedan (vehicle rental)	3	months	\$ 115	\$ 345
Sedan (fuel, oil changes, etc.)	3	months	\$ 60	\$ 180
3/4 ton pickups (5; vehicle rental)	37	months	\$ 335	\$ 12,395
3/4 ton pickups (5; fuel, oil changes, etc.)	37	months	\$ 305	\$ 11,285
Vehicle repair	2	occurrences	\$ 1,000	\$ 2,000
TOTALS				\$ 95,521

	Quantity	Unit	Rate	Total
4. Services and Supplies				
Office Supplies	62.34	FTE months	\$ 17	\$ 1,060
Sampling Equipment (PFDs, nets, gloves, etc.)	4	boats	\$ 550	\$ 2,200
Rain Gear	3	sets	\$ 200	\$ 600
Ruggedized tablet for field data entry	2	units	\$ 1,950	\$ 3,900
Boots	3	sets	\$ 100	\$ 300
Tagging Supplies	3	months	\$ 325	\$ 975
Lab Supplies (chemicals, nitrile gloves, etc.)	4	months	\$ 250	\$ 1,000
Boat Supplies (oil, propellers, batteries, etc.)	4	months	\$ 800	\$ 3,200
Data Mngt. Software (Pendragon or similar)	1	license(s)	\$ 598	\$ 598
Attendance to Professional Meeting	3	Attendees	\$ 789	\$ 2,368
Rite in the Rain Paper Data Sheets	15	Packages	\$ 43	\$ 650
Photocopier and Fax Rent	5	months	\$ 300	\$ 1,500
Northwest Region Utilities	1	@	\$ 1,500	\$ 1,500
Cellular Phone Service	60	months	\$ 50	\$ 3,000
Maint., Operation and Repair of Boats	192	days	\$ 120	\$ 23,040
TOTALS				\$ 45,891

5. Total Direct Costs \$ **691,448**

6. Indirect Costs (23.98%) \$ **165,809**

TOTAL ODFW Costs

\$ 857,257

7. PSMFC Admin Fee (1.61%)

\$ 13,801

Total Project Cost

\$ 871,058

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2017-2018 Budget Summary

BPA Grant #: 75527, Project #: 1990-077-00

PSMFC Job #: 1052E.17

April 1, 2017 - March 31, 2018

PSMFC Dam Angling

1 PERSONNEL	Months	Hours/Month	Unit Cost	Total	COST
Sci. Tech 1	3 crew members	13.0	173.33	\$16.25	\$36,613
			Subtotal Salaries		\$36,613
Benefit Rate:			12% of	\$36,613	\$4,394
			Subtotal Benefits		\$4,394
					\$5,980
2 TRAVEL					
GSA Lease (Trucks)			12 months @	\$279	\$3,348
GSA Mileage (Trucks)			8,000 miles @	\$0.329	\$2,632
			Subtotal Services		\$1,499
3 SERVICES & SUPPLIES					\$2,249
Supplies					\$1,499
Office Supplies					\$1,499
Services					
Cell Phones			5 months @	\$60	\$300
Safety/Training Equipment					\$450
			Subtotal Services		\$750
TOTAL PSMFC DIRECT COSTS					\$49,236
4 OVERHEAD / INDIRECT					\$6,105
			12.40%	of Items 1 thru 3:	\$49,236
TOTAL PSMFC PROGRAM MANAGEMENT					\$55,341

Pacific States Marine Fisheries Commission

Northern Plkeminnow 2017-2018 Budget Summary

BPA Grant # 75527/Project # 1990-077-00

PSMFC Job # 1052A.17 & 1052N.17

April 1, 2017 - March 31, 2018

PSMFC Program Management

1 PERSONNEL	Months	Hours/Month	Unit Cost	Total	COST
Program Administrator	6.0	173.33	\$63.29	\$65,821	\$224,089
Data Entry Supervisor	6.0	173.33	\$35.31	\$36,724	
Data Entry Clerk	6.0	173.33	\$24.85	\$25,841	
Administrative Specialist	6.0	173.33	\$26.33	\$27,379	
			Subtotal Salaries	\$155,765	
Medical Premium:					
Program Administrator			34%	\$22,379	
Data Entry Supervisor			26%	\$9,548	
Data Entry Clerk			26%	\$6,719	
Administrative Specialist			26%	\$7,118	
Benefit Rate:					
Program Administrator	6		\$940	\$5,640	
Data Entry Supervisor	6		\$940	\$5,640	
Data Entry Clerk	6		\$940	\$5,640	
Administrative Specialist	6		\$940	\$5,640	
			Subtotal Benefits	\$68,324	
2 TRAVEL					\$4,109
Airfare		3 Trips @	\$500	\$1,500	
Per Diem/Lodging		8 Days @	\$142	\$1,136	
POV Mileage		2754 miles	\$0.535	\$1,473	
3 SERVICES & SUPPLIES					\$29,554
Supplies					
Mailing				\$4,000	
Office Supplies				\$2,600	
Trade Show Booth Preparation/Supplies				\$2,620	
			Subtotal Benefits	\$9,220	
Services					
Telephone				\$1,000	
Postage, Photocopying				\$1,000	
PO Box Rental				\$235	
Office Rents		6 months @	\$2,327	\$13,962	
Trade Show Booth Rental Space - 5 shows				\$4,137	
			Subtotal Benefits	\$20,334	
4 CONTRACTUAL SERVICES					\$40,800
Program Promotion & Outreach				\$35,800	
Reprinting of Vouchers, Tag & Data Collection Forms				\$5,000	
			PSMFC DIRECT COSTS TOTAL	\$298,552	
5 OVERHEAD / INDIRECT					\$37,021
			12.40% of Items 1 thru 4	\$298,552	
TOTAL PSMFC PROGRAM MANAGEMENT					\$335,573
TOTAL SPORT REWARD FUND					\$1,788,036

Pacific States Marine Fisheries Commission
 Northern Pikeminnow 2017-2018 Budget Summary
 BPA Grant #: 75527/Project #: 1990-077-00
 PSMFC Job# 1052B.17
 April 1, 2017 - March 31, 2018
Washington Creel Station Support

1 PERSONNEL	Months	Hours/Month	Unit Cost	Total	COST
Temporary Scientific Tech's (PDX/Vancouver area) (4 Crew Members)	28	173.33	\$17.24	\$83,660	\$169,403
Temporary Scientific Tech's (O her Areas) (5 Crew Members)	24	173.33	\$16.25	\$67,593	
Subtotal Salaries				\$151,253	

Benefits

Temporary Staff	\$151,253	12%	\$18,150
Benefits Subtotal			\$18,150

2 TRAVEL

Bridge Tolls	450	Trips @	\$1	\$450
GSA Lease (Trucks)	84	Months @	\$239	\$20,076
GSA Lease (Render)	12	Months @	\$364	\$4,368
GSA Lease (Vans)	96	Months @	\$229	\$21,984
GSA mileage (Trucks)	100,000	Miles @	\$0.265	\$26,500
GSA mileage (Render)	6,500	Miles @	\$0.477	\$3,101
GSA mileage (Vans)	97,000	Miles @	\$0.254	\$24,638
				\$101,117

3 SERVICES & SUPPLIES

Supplies

Office Supplies	1	Season @	\$910	\$910
Field supplies	10	Crews @	\$600	\$6,000
Promotional supplies	1	Season @	\$2,000	\$2,000
Printing (Reg forms)	32,500	Forms @	\$0.160	\$5,200
Printing (Vouchers)	22,000	Forms @	\$0.225	\$4,950
Fish handling supplies	1	Season @	\$4,000	\$4,000
Subtotal Supplies				\$23,060

Services

Cell Phones 15 phones	77	Months @	\$26	\$2,002
High Speed Internet service	12	Months @	\$105	\$1,260
Field office lease - Dallesport	6	Months @	\$600	\$3,600
Computer/printer supplies & maintenance	1	Year @	\$983	\$983
Safety/Training/Equipment	1	Year @	\$1,000	\$1,000
PIT tag scanner supplies & maintenance	1	Year @	\$3,000	\$3,000
Document shredding	1	Year @	\$500	\$500
Fish rendering/Cold storage	1	Season @	\$14,000	\$14,000
Fed Ex shipping	1	Season @	\$600	\$600
Subtotal Supplies				\$26,945

TOTAL PSMFC DIRECT COSTS **\$320,525** Items 1 thru 3:

PSMFC INDIRECT COSTS **\$39,745** of **\$320,525**

PROGRAM TOTAL **\$360,270**

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2017-2018 Budget Summary

BPA Grant #: 75527/ Project #: 1990-077-00

PSMFC Job #: 1052F.17

April 1, 2017 - March 31, 2018

WDFW Dam Angling

1 PERSONNEL	Months	Hours/Month	Unit Cost	Total	COST
Sci. Tech IV - Mid River	3.0	173.33	\$24.28	\$12,625	\$43,673
Sci Tech Crew Leader(WDFW)	5.5	173.33	\$17.67	\$16,845	
Subtotal Salaries				\$29,470	
Benefits					
Permanent Yearly Staff*					
		\$29,470	18.65%	\$5,496	
*(Benefit calculation based on OASI=6.2%, retirement=11%, medicare=1.45% of salary)					
Permanent Yearly Staff Health & L&I**					
	8.5	Months @	\$1,024.28	\$8,706	
**(Benefit calculation based on avg. \$148.76/mo L&I + avg. \$875.52/mo health)					
Benefits Subtotal				\$14,203	
2 TRAVEL					\$2,225
GSA Supplemental Insurance (WDFW)					1 Year @ \$2,225 \$2,225
3 SERVICES & SUPPLIES					\$8,459
Supplies					
Angling Supplies - Bait/Tackle (WDFW)					5 Months @ \$1,580 \$7,900
Services					
Safety Training & Equipment (WDFW)					1 Employee @ \$559 \$559
TOTAL WDFW DIRECT COSTS					\$54,357
					Items 1 thru 3:
WDFW INDIRECT COSTS					\$15,345
					28.23% of \$54,357
TOTAL WDFW PROJECT COSTS					\$69,702
PSMFC ADMIN FEE					\$1,122
					1.61% of \$69,702
CONTRACT TOTAL					\$70,824

Pacific States Marine Fisheries Commission

Northern Pitkinnow 2017-2018 Budget Summary

BPA Grant # 75527/Project # 1990-077-00

PSMFC Job # 1052C.17

April 1, 2017 - March 31, 2018

WDFW Predator Control

1 PERSONNEL	Months	Hours/Month	Unit Cost	Total	COST
Project Manager	1.0	173.33	\$34.29	\$5,943	\$717,051
Project Leader, Fish Biologist III	12.0	173.33	\$32.64	\$67,890	
Fish Biologist II - Pasco	12.0	173.33	\$27.47	\$57,137	
Fish Biologist I - PIT Tag Lead	12.0	173.33	\$19.44	\$40,434	
Scientific Technician I - Vancouver, W/FAR, Logistics	6.0	173.33	\$21.09	\$21,933	
Scientific Technician IV - Mid-River	9.0	173.33	\$24.28	\$37,876	
Scientific Technician C/S - 12 ea/6 mo Crew Leaders	73.0	173.33	\$17.95	\$227,123	
Scientific Technician - Data Entry	9.0	173.33	\$19.44	\$30,326	
Subtotal Salaries				\$488,662	

Benefits Permanent Yearly Staff*

\$488,662 18.65% \$91,135
 *(Benefit calculation based on OASDI=6.2%, retirement=11%, medicare=1.45% of salary)

Permanent Yearly Staff Health + L&I**

134 Months @ \$1,024.28 \$137,254
 **(Benefit calculation based on avg. \$148.76/mo L&I + avg \$875.52/mo health)

Subtotal Benefits \$228,389

2 TRAVEL					
Per diem (Average Standard Rate-Including Lodging)	18 Days @		\$142	\$2,556	\$8,429
WDFW Vehicle Mileage/Maintenance	1 Year @		\$4,000	\$4,000	
Mileage Reimbursement	3500 Miles @		\$0.535	\$1,873	

3 SUPPLIES/SERVICES					
Supplies/Equipment					
Office Supplies	1 Season @		\$5,000	\$5,000	\$34,444
Field Materials/Supplies	6 Months @		\$967	\$5,802	
Fish Handling Supplies	6 Months @		\$500	\$3,000	
Subtotal Office				\$13,802	
Services					
WDFW Field Facility Charges (Internet, Utilities)	12 Months @		\$525	\$6,300	\$20,642
Vehicle Insurance (Supplemental)	1 Season @		\$13,000	\$13,000	
Safety Training	1 Year @		\$1,342	\$1,342	
Subtotal Field				\$20,642	

TOTAL WDFW DIRECT COSTS Items 1 thru 3 **\$759,924**

WDFW INDIRECT COSTS 28.23% of \$759,924 **\$214,526**

TOTAL WDFW PROJECT COSTS **\$974,450**

PSMFC ADMIN FEE 1.61% of \$974,450 **\$15,689**

CONTRACT TOTAL **\$990,139**

Project 1990-077-00, Northern Pikeminnow Property Inventory -2017
PSMFC - 75527 (former Grant 71866)

Updated 2/10/2017

ID #	Asse #	Description	Serial No.	Cost	Check No.	Acquisti on Date	Condition	Responsible Party	FA Class Code	FA Subclass Code	Location	Center Code	Job Code	
	5541	DELL OPTIPLEX COMPUTER					Good	(b) (6)						
	5542	DELL OPTIPLEX COMPUTER					Good							
	5380	DELL OPTIPLEX COMPUTER					Good							
		POLAR KING WALK SELF CONTAINED	H810			04/01/15	New					WDFW		
		Boat, 768XX, "Z-Row"		\$34,000		02/18/00	Fair					ODFW		443D
		Boat, 833XX, "Indirect"		\$53,399		03/28/05	Fair					ODFW		443D
		Boat, 866XX, "Enterprise2"		\$66,404		12/31/07	Good					ODFW		443D
		Boat, 882XX, "Phredator"		\$78,091		02/11/10	Good					ODFW		443D
		Boat, 920XX, "George Reed"		\$83,416		12/10/13	New					ODFW		443D
		Outboard Engine, 768xx, "Z-Row"		\$6,297		02/15/05	Fair					ODFW		443D
		Outboard Engine, 833xx, "Indirect"		\$6,297		02/15/05	Fair					ODFW		443D
		Outboard Engine, 866xx, "Enterprise2"		\$6,419		01/11/08	Good					ODFW		443D
		Outboard Engine, 882xx, "Phredator"		\$6,419		12/08/09	Good					ODFW		443D
		Outboard Engine, 920xx, "George Reed"		\$6,919		10/01/15	New					ODFW		443D
		Outboard Motor, 15 hp emergency kicker		\$1,247		04/08/91	Fair					ODFW		443D
		Outboard Motor, 15 hp emergency kicker		\$1,909		01/14/02	Fair					ODFW		443D
		Outboard Motor, 15 hp emergency kicker		\$1,909		01/14/02	Fair					ODFW		443D
		Outboard Motor, 15 hp emergency kicker		\$1,909		01/14/02	Fair					ODFW		443D
		Outboard Motor, 15 hp emergency kicker		\$1,820		12/02/09	Good					ODFW		443D
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	4503	\$2,250			Used-Fair							
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	51	\$2,250			Used-Fair					WDFW		
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	33	\$2,250			Used-Fair					WDFW		
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	5384	\$2,250			Used-Broke					WDFW		
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	4501	\$2,250			Used-Fair					WDFW		
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	4502	\$2,250			Used-Fair					WDFW		
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	4500	\$2,250			Used-Fair				WDFW			
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	5015	\$2,250			Used-Fair				WDFW			
		PIT tag detector, Destron (portable transceiver) Model F2001F-7	4504	\$2,250			Used-Fair				WDFW			
	2566	PIT tag detector, Destron (portable transceiver) Model F2001F-7	130			07/24/02	Used-Fair				WDFW			
	2172	PIT tag detector, Destron (portable transceiver) Model F2001F-7	128			07/24/02	Used-Fair				WDFW			
	6243	PIT tag detector, Destron (portable transceiver) Model F2001F-7	48			07/24/02	Used-Fair				WDFW			



Statement of Work Report

Data Current as of: 03/9/2018
 Report Printed: 03/9/2018

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 78040 REL 3
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$4,471,814 **Perf. Period:** 4/1/2018 - 3/31/2019
Contract Type: Release **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 78040 REL 3
SOW Validation: Last validated 02/13/2018 with 0 problems, and 0 reviewable items

Contract Documents:	Transmittal Memo (02/07/2018)	Transmittal Memo for CR-317319
	Property Inventory (02/05/2018)	Property Inventory 1990-077-00 Northern Pikem...
	Budget - Contract (02/13/2018)	Northern Pikeminnow Sport Reward Budget 2018-...

Contract Description:

The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. 2017 was another very successful year for the NPMP with a total of 196,727 pikeminnow removed via the Sport Reward and Dam Angling programs. Pikeminnow removals resulted in meeting the programs exploitation rate goals coming in at just over 17.4% for 2016. We anticipate conducting dam angling program again in 2018.

Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
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Tybee Sheidler	Interested Party	Bonneville Power Administration	503-230-3820 / NA	tasheidler@bpa.gov	P.O. Box 3621 Mail Stop NSSP-4 Portland OR 97208-3621 AB
Elham Zolmajd-Haghighi	CO Assistant	Bonneville Power Administration	(503) 230-7414 / NA	ezolmajd-haghighi@bpa.gov	P.O. Box 3621 Mailstop - NSSP-4 Portland OR 97208-3621
Eric McOmie	COTR	Bonneville Power Administration	(503) 230-4964 / NA	ermcomie@bpa.gov	

Work Element Budget Summary:

<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$895	(0.02 %)
B : 165. Produce Environmental Compliance Documentation - Produce Environmental Compliance		\$2,013	(0.05 %)
C : 119. Manage and Administer Projects - Provide		\$290,817	(6.50 %)



Pikeminnow Management Program contractual and fiscal oversight		
D : 122. Provide Technical Review - Prepare biological opinion data computations, salmonid catch reporting and budget preparations	\$25,055	(0.56 %)
E : 99. Outreach and Education - Promotion/Sport Show Outreach	\$40,267	(0.90 %)
F : 158. Mark/Tag Animals - Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals	* \$425,040	(9.50 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2018 Sport Reward Fishery Data Collection/Processing	* \$76,060	(1.70 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	* \$1,323,685	(29.60 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2018 Sport Reward Fund	* \$1,755,487	(39.26 %)
J : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2018 pikeminnow removals on reduction in salmonid predation	\$174,490	(3.90 %)
K : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries	\$228,179	(5.10 %)
L : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	* \$126,247	(2.82 %)
M : 132. Produce (Annual) Progress Report - PLACEHOLDER: Submit RME Tech Report for Calendar year 2017	\$0	(0.00%)
N : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2018	\$1,790	(0.04 %)
O : 202. Produce BiOp RPA Report - BiOp RPA Report for CY 2018	\$1,789	(0.04 %)
Total:	\$4,471,814	

* Environmental Compliance (EC) needed before work begins.

Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title: Periodic Status Reports for BPA

Description: The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.

Deliverable Specification:

Work Element Budget: \$895 (0.02 %)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2018 (4/1/2018 - 6/30/2018)	7/1/2018	7/15/2018	Inactive	
B. Jul-Sep 2018 (7/1/2018 - 9/30/2018)	10/1/2018	10/15/2018	Inactive	
C. Oct-Dec 2018 (10/1/2018 - 12/31/2018)	1/1/2019	1/15/2019	Inactive	
D. Final Jan-Mar 2019 (1/1/2019 - 3/31/2019)	3/17/2019	3/31/2019	Inactive	

B: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance
Description: Produce Environmental Compliance Documentation
Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Work Element Budget: \$2013 (0.05 %)
Planned Metrics: * Are herbicides used as part of work performed under this contract?: No
 * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: No

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2018	3/31/2019	Inactive	Work done to obtain permits such as Sec. 401 or 404 (including RGP process), shoreline, NPDES, or any other required federal, state, or local permits.
Deliverable: B. Produce Environmental Compliance Documentation		3/31/2019	Inactive	<i>See the Deliverable Specification above</i>

C: 119. Manage and Administer Projects

Title: Provide Pikeminnow Management Program contractual and fiscal oversight
Description: Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.
Deliverable Specification: Provide effective implementation and administration: a) evaluate current workload and monitor implementation progress; b) develop work plan consistent with expected budget availability and potential tasks or projects; and c) integrate and manage the planning, permitting, environmental compliance, and coordinated implementation of contract actions.
Work Element Budget: \$290817 (6.50 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. WE Budget Tab: Error-check and update actual spending (reflect contract close-out value)	9/1/2018	3/31/2019	Inactive	After a final invoice is submitted to BPA (in order to close the contract): (a) open the prior-year contract SOW at the "WE Budget" tab; and (b) redistribute the "Updated" WE budget amounts to reflect the final contract close-out amount actually spent by the contractor.
B. Facilitate inputting Cost Share information into Pisces at the Project level	9/30/2018	11/15/2018	Inactive	There are multiple contractors under this project and I am the lead project Proponent. I will solicit cost share information for the previous federal FY from project partners and enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners. (Milestone starts Sep. 30 and ends Nov. 15)



Milestone Title	Start Date	End Date	Status	Milestone Description
C. Comply with all applicable federal, state, tribal and local safety requirements, including reporting	4/1/2018	3/31/2019	Inactive	As described in the contract's Terms and Conditions, the contract manager and contractor shall comply with all applicable federal, state, tribal and local safety laws, rules, regulations and requirements.
D. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/1/2018	11/30/2018	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.
Deliverable: E. Effective implementation management and timely contract administration		3/31/2019	Inactive	<i>See the Deliverable Specification above</i>

D: 122. Provide Technical Review

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations

Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.

Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.

Work Element Budget: \$25055 (0.56 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fi	5/1/2018	11/15/2018	Inactive	Compile and submit weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
Deliverable: B. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2019	Inactive	<i>See the Deliverable Specification above</i>

E: 99. Outreach and Education

Title: Promotion/Sport Show Outreach

Description: Program promotion through fishing clinics, Television promotion, Sportsman's Show booths, and program brochure and print media. This may be done partially under a subcontract.

Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths. Develop program promotion materials for print and other media outlets.

Work Element Budget: \$40267 (0.90 %)

Planned Metrics: # of general public reached: 2000

Locations: 1

Country: US

State: OR

County: Sherman

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

NPCC Subbasin: Deschutes

HUC5 Watershed: Cedar Island-Deschutes River

HUC6 Name: Gordon Canyon-Deschutes River



Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		3/31/2019	Inactive	See the Deliverable Specification above

F: 158. Mark/Tag Animals

Title: Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals

Description: Collect pikeminnow for tagging with spaghetti tags and PIT Tags for population and evaluation studies for the Northern Pikeminnow Management Program. This will be done under a subcontract.

Deliverable Specification: Tag pikeminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.

Work Element Budget: \$425040 (9.50 %)

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
 * # of "other" tag/marks applied to fish: 1000

Locations: 1

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2018	3/31/2019	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Order PIT tags in TDI system	4/1/2018	4/15/2018	Inactive	Submit tag request in the Tag Distribution and Inventory application (TDI) at http://www.ptagis.org/services/tag-distribution-inventory indicating when the tags are needed (one or multiple shipments). Tag orders should be placed during September and October for shipment any time during the fiscal year. Funding for the tags occurs at the project level.
C. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snake	4/1/2018	7/1/2018	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to pikeminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: D. Collect and tag pikeminnow with spaghetti tags and PIT tags for program evaluation studies.		7/31/2018	Inactive	See the Deliverable Specification above

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2018 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Work Element Budget: \$76060 (1.70 %)

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring

Locations: 1

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations



Country: US
State: OR
County: Sherman
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)
Study Design: Predation Modeling (1990-077-00)
Study Design Owner: Steve Williams
Sample Design: Predation Modeling (1990-077-00) WSE 124412
Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program Website
NPCC Subbasin: Deschutes
HUC5 Watershed: Cedar Island-Deschutes River
HUC6 Name: Gordon Canyon-Deschutes River
Protocol State: Draft

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2018	3/31/2019	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Review, revise, and publish Study Design and Methods in monitoringmethods.org	4/1/2018	3/31/2019	Inactive	The Study Design (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Study Design/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Coordinate stations and operating times, staff and train registration clerks for the 19 station	4/1/2018	11/30/2018	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2016 season and their times of operation. Set stations to operate in 2016 and their times of operation to maximize station open times in relation to catch and cost efficiency.
D. Provide program and fishery data to participants and interested parties at the stations	5/1/2018	10/31/2018	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the program stations.
E. Receive and edit sport reward voucher copies for completeness and enter into the catch database	5/1/2018	11/30/2018	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: F. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/30/2018	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations
Description: This work element addresses running the 19 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.
Deliverable Specification: Operate the 19 registration/creel check stations on the Columbia and Snake rivers from May 1st through September 31st, or until the budget is projected to be fully spent for the season (at which point, close season early to prevent budget overrun).
Work Element Budget: \$1323685 (29.60 %)
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook (Oncorhynchus tshawytscha) - All Populations | Chum (Oncorhynchus keta) - Columbia River ESU | Coho (Oncorhynchus kisutch) - Lower Columbia River ESU | Sockeye (Oncorhynchus nerka) - All Populations | Steelhead (Oncorhynchus mykiss) - All Populations
Country: US
State: OR
County: Sherman
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)
NPCC Subbasin: Deschutes
HUC5 Watershed: Cedar Island-Deschutes River
HUC6 Name: Gordon Canyon-Deschutes River



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2018	3/31/2019	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2018	9/30/2018	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 19 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2018	9/30/2018	Inactive	Hire, train and supervise the clerks for the 19 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2018	9/30/2018	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both pikeminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		9/30/2018	Inactive	<i>See the Deliverable Specification above</i>

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2018 Sport Reward Fund

Description: The reward fund used to pay regular and tag vouchers issued to Pikeminnow Sport Reward anglers. The 19 registration/creel stations utilized in the program are entered in the location fields.

Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.

Work Element Budget: \$1755487 (39.26 %)

Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook (Oncorhynchus tshawytscha) - All Populations | Coho (Oncorhynchus kisutch) - Lower Columbia River ESU | Sockeye (Oncorhynchus nerka) - All Populations | Steelhead (Oncorhynchus mykiss) - All Populations | Chum (Oncorhynchus keta) - Columbia River ESU

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2018	3/31/2019	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2018	11/15/2018	Inactive	Manage voucher payment program daily, and pay every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Pikeminnow Sport Reward Fund		11/15/2018	Inactive	<i>See the Deliverable Specification above</i>

J: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2018 pikeminnow removals on reduction in salmonid predation

Description: Determine the exploitation rates for the various sectors of the fishery in 2018. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of p keminnows. This will be done under a subcontract.

Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2018 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.



Work Element Budget: \$174490 (3.90 %)

Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
* Primary R, M, and E Type : Action Effectiveness Monitoring

Locations: 1

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Study Design: Biological Evaluations (1990-077-00)

Study Design Owner: Steve Williams **Protocol State:** Draft

Sample Design: Biological Evaluations (1990-077-00) WSE 124415

Data Repositories: Northern Pikeminnow Sport (<http://www.p.keminnnow.org>)
Reward Fishery Program Website

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete			Canceled	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Review, revise, and publish Study Design and Methods in monitoringmethods.org			Canceled	The Study Design (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Study Design/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Compute 2018 Northern Pikeminnow exploitation rates by program areas and estimate reduction in	5/15/2018	2/1/2019	Inactive	Provide an analysis of Northern pikeminnow caught, tags returned and tag loss rates to estimate Northern pikeminnow exploitation rates for the season and report progress monthly and final end of season exploitation rates for the fishery and program areas. Determine reduction in salmonid predation in relation to pre program evaluation levels
D. Examine pikeminnow, walleye, and smallmouth bass stomach data for feeding habits of these pred	8/1/2018	3/1/2019	Inactive	Analyze stomach contents of p keminnnow collected from indexing studies along with that of smallmouth bass, and walleye to determine and update food habits and proportion of fish in their diets and the species consumed.
E. Study predator compensatory responses to pikeminnow removals	10/1/2018	3/1/2019	Inactive	Analyze population sizes and responses to the continuing removal of Northern pikeminnow from the mainstem Columbia and Snake rivers. Prepare estimates of predatory response to continued removal of Northern pikeminnows.
Deliverable: F. Determine the percentage reduction in predation on salmonids from pikeminnow removals.		3/31/2019	Inactive	<i>See the Deliverable Specification above</i>

K: 162. Analyze/Interpret Data

Title: Evaluate system-wide response of P keminnnows and other predators to sustained fisheries

Description: Monitor responses of p keminnnow, walleye and smallmouth bass to the continuing removals of pikeminnows in the sport reward fishery. Continue indexing and stomach analysis of these species in the program area on an annual rotating basis. This will be done under a subcontract.

Deliverable Specification: Evaluate the response of Northern P keminnnow to fish removals by the sport reward fishery. Determine exploitation rates for the season and the Northern P keminnnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.

Work Element Budget: \$228179 (5.10 %)

Planned Metrics: * Primary R, M, and E Focal Strategy : Predation
* Primary R, M, and E Type : Status and Trend Monitoring

Locations:

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho



(Oncorhynchus kisutch) - Lower Columbia River ESU | Sockeye (Oncorhynchus nerka) - All Populations | Steelhead (Oncorhynchus mykiss) - All Populations

Country:
State:
County:
Salmonid ESUs Present:
Study Design: Biological Evaluations (1990-077-00)
Study Design Owner: Steve Williams **Protocol State:** Draft
Sample Design: Biological Evaluations (1990-077-00) WSE 124416
Data Repositories: Northern Pikeminnow Sport (<http://www.p.keminnnow.org>)
 Reward Fishery Program Website

Area of Inference: **Name** **Value**
 Latitude, Longitude 45.638639, -121.108806
Note:

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and publish Study Design and Methods in monitoringmethods.org			Canceled	The Study Design (including temporal and spatial design) and Methods for this work element are stored at monitoringmethods.org and need to be finalized (i.e., "Published" through monitoringmethods.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Study Design/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2018	3/31/2019	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2019	Inactive	<i>See the Deliverable Specification above</i>

L: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams
Description: Provide dam angling across the face of the dam at the Powerhouse and other accessible areas for pikeminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May 1st to October. Evaluate the potential for dam angling at other Columbia and Snake River Hydropower facilities. This may be done partially under a subcontract.
Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1st thru the end of September
Work Element Budget: \$126247 (2.82 %)
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 2
Primary Focal Species: Chinook (O. tshawytscha) - Deschutes River Summer/Fall ESU | Chinook (O. tshawytscha) - Mid-Columbia River Spring ESU | Chinook (O. tshawytscha) - Snake River Fall ESU | Chinook (O. tshawytscha) - Snake River Spring/Summer ESU | Chinook (O. tshawytscha) - Snake River Spring/Summer (not listed) | Chinook (O. tshawytscha) - Upper Columbia River Spring ESU | Chinook (O. tshawytscha) - Upper Columbia River Summer/Fall ESU | Sockeye (Oncorhynchus nerka) - All Populations
Country: US **NPCC Subbasin:** Multiple
State: WA **HUC5 Watershed:** Multiple
County: Klickitat **HUC6 Name:** Multiple
Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2018	4/1/2018	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Evaluate opportunity for Dam Angling at other Columbia and Snake River Facilities	5/1/2018	10/1/2018	Inactive	Evaluate the opportunity for additional dam angling and subsequent p keminnow removal at other Columbia and Snake River Hydropower facilities.
Deliverable: C. Dam Angling at The Dalles and John Day dams.		10/15/2018	Inactive	<i>See the Deliverable Specification above</i>

M: 132. Produce (Annual) Progress Report

Title: PLACEHOLDER: Submit RME Tech Report for Calendar year 2017

Description: The milestones for this WE will be cancelled when the CY 2017 RM&E Technical Report is uploaded under contract 75527. The progress report summarizes the project goal, objectives, hypotheses (for research), completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or any ramping up or ramping down of contract components or of the project as a whole. RM&E Technical Progress reports must conform to BPA guidelines. See the "RME Technical Reporting" link at: <https://www.cbfish.org/Help.mvc/GuidanceDocuments>.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Work Element Budget: \$0 (0.00%)

Planned Metrics:
 * Start date of reporting period : 1/1/2017
 * End date of reporting period : 12/31/2017

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Completed Annual Report		5/1/2018	Inactive	<i>See the Deliverable Specification above</i>

N: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2018

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2015. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR. Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <http://efw.bpa.gov/IntegratedFWP/technicalreports.aspx>. If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Work Element Budget: \$1790 (0.04 %)

Planned Metrics:
 * Start date of reporting period : 1/1/2018
 * End date of reporting period : 12/31/2018



Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Prepare for RM&E Technical Report. Review the revised (2014) guidance & template	8/1/2018	9/14/2018	Inactive	Review the newly-revised guidance & template for your RME Technical Report. BPA Fish and Wildlife project sponsors who have the following work elements in their contracts are required to complete a RM&E technical report: 156 Develop RM&E Methods and Designs, 157 Collect/Generate/Validate Field and Lab Data, 158 Mark and Tag Animals, and/or 162 Analyze/Interpret Data. Reports must show cumulative results and synthesis for the duration data collection/analysis studies. Final RME reports are due in March to align with regulatory reporting timelines. (Milestone start/end: August 1 - September 14)
Deliverable: B. Completed Annual Report		3/15/2019	Inactive	See the Deliverable Specification above

O: 202. Produce BiOp RPA Report

Title: BiOp RPA Report for CY 2018

Description: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, these reports are required to be completed online. If desired, the required information can be prepared in MS Word, and pasted into cbfish. For more guidance see https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf.

Deliverable Specification: The online BiOp RPA report in Taurus (<https://www.cbfish.org/BiologicalOpinionAction.mvc/Index/2014/BiOpRpaStatus>) should include the data, analyses, and data management completed no later than December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the scale analyses, you will report the preliminary data (# of redds), but not (incomplete) age distributions of carcasses, which would be reported in the subsequent CY report.

For each RPA, follow the directions in Taurus for each of the three sections and, input completed graphical or tabular data, accompanied by any complete explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Work Element Budget: \$1789 (0.04 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Lead project proponent will download RPA questions from cbfish.org	11/1/2018	1/15/2019	Inactive	To prepare for your RPA report, 1) Go to www.cbfish.org and log in, 2) Navigate to your project and select "BiOp Annual Report" from the "Views/Action" menu button, 3) Click on "Input Needed" for each applicable RPA to find your RPA reporting requirements so you will know how much time to set aside for this task. You may also click the "download RPA doc" button to get all RPA questions in one MS Word document. 4). For further guidance or to request help, email BPA RM&E RPA support RMESupport@bpa.gov or email your COTR. (Milestone start/end: July 1 – September 30)
B. Lead project proponent will finalize calendar year report in cbfish.org	2/15/2019	3/15/2019	Inactive	The final version is due by March 15. (Milestone start/end: December 31 - March 15)
Deliverable: C. Submit BiOp RPA Report in Taurus		3/15/2019	Inactive	See the Deliverable Specification above

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:



<https://www.bpa.gov/efw/FishWildlife/InformationforContractors/IFCDocuments/InadvertentDiscoveryProcedure.pdf>

Northern Pikeminnow 2018-19 Budget Summary		
Project 1990-077-00, BPA Contract # 78040, Rel 3		
April 1, 2018 to March 31, 2019		
1052A.18	PSMFC Prog. Management	\$ 341,617
1052B.18	PSMFC WA Creel Station Field Support	\$ 249,970
1052C.18	WDFW Predator Control	\$ 1,098,885
1052D.18	ODFW Predator Control	\$ 899,562
1052E.18	PSMFC Dam Angling	\$ 50,704
1052F.18	WDFW Dam Angling	\$ 75,589
1052N.18	Sport Reward Fund	\$ 1,755,487
		\$ 4,471,814
Totals per Budget Category		\$4,471,814
Personnel		\$1,776,714
PSMFC (Prog. Management, WA Creel Station Field Support, and Dam Angling)		\$441,769
WDFW (Predator Control, Dam Angling)		\$788,850
ODFW Predator Control		\$546,095
Travel		\$198,528
PSMFC (Prog. Management and WA Creel Station Field Support)		\$11,833
WDFW (Predator Control, Dam Angling)		\$90,905
ODFW Predator Control		\$95,790
Services/Supplies		\$142,536
PSMFC (Prog. Management, WA Creel Station Field Support, and Dam Angling)		\$76,904
WDFW (Predator Control, Dam Angling)		\$19,742
ODFW Predator Control		\$45,890
Contractual Services-PSMFC Prog. Management		\$38,800
Sport Reward Fund		\$1,755,487
Overhead/Indirect Rate (PSMFC)		12.82% \$72,985
Overhead/Indirect Rate (WDFW)		28.78% \$258,875
Overhead/Indirect Rate (ODFW)		29.00% \$199,455
Subcontractor Admin pass-thru		1.39% \$28,433

Pacific States Marine Fisheries Commission
Northern Pikeminnow 2018-2019 Budget Summary
BPA Contract #: 78040, Rel 3/Project #: 1990-077-00
PSMFC Job# 1052B.18

April 1, 2018 - March 31, 2019

PSMFC Washington Creel Station Support

		Months	Hours/Month	Unit Cost	Total	COST
1 PERSONNEL						\$168,635
	Temporary Scientific Tech's (PDX/Vancouver area)	24	173.33	\$17.24	\$71,709	
	(4 Crew Members)					
	Temporary Scientific Tech's (Other Areas)	28	173.33	\$16.25	\$78,858	
	(5 Crew Members)					
				Subtotal Salaries		
						\$150,567
	Benefits					
	Temporary Staff		\$150,567	12%	\$18,068	
			Benefits Subtotal			\$18,068
2 TRAVEL						\$7,680
	Bridge Tolls	450	Trips @	\$1	\$450	
	GSA Lease (Trucks)	0	Months @	\$239	\$0	
	GSA Lease (Render)	12	Months @	\$364	\$4,368	
	GSA Lease (Vans)	0	Months @	\$229	\$0	
	GSA mileage (Trucks)	0	Miles @	\$0.265	\$0	
	GSA mileage (Render)	6,000	Miles @	\$0.477	\$2,862	
	GSA mileage (Vans)	0	Miles @	\$0.254	\$0	
3 SERVICES & SUPPLIES						\$45,250
	Supplies					
	Office Supplies	1	Season @	\$2,700	\$2,700	
	Field supplies	10	Crews @	\$400	\$4,000	
	Promotional supplies	1	Season @	\$2,000	\$2,000	
	Printing (Reg forms)	32,500	Forms @	\$0.160	\$5,200	
	Printing (Vouchers)	22,000	Forms @	\$0.225	\$4,950	
	Fish handling supplies	1	Season @	\$4,000	\$4,000	
			Subtotal Supplies			\$22,850
	Services					
	Field office lease - Dallesport	6	Months @	\$600	\$3,600	
	Computer/printer supplies & maintenance	1	Year @	\$600	\$600	
	Safety/Training/Equipment	1	Year @	\$600	\$600	
	PIT tag scanner supplies & maintenance	1	Year @	\$3,000	\$3,000	
	Fish rendering/Cold storage	1	Season @	\$14,000	\$14,000	
	Fed Ex shipping	1	Season @	\$600	\$600	
			Subtotal Supplies			\$22,400
TOTAL PSMFC DIRECT COSTS				Items 1 thru 3:		\$221,565
PSMFC INDIRECT COSTS		12.82%	of	\$221,565		\$28,405
PROGRAM TOTAL						\$249,970

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2018-2019 Budget Summary

BPA Contract #: 78040, Rel 3/Project #: 1990-077-00

PSMFC Job #: 1052C.18

April 1, 2018 - March 31, 2019

WDFW Predator Control

		Months	Hours/Month	Unit Cost	Total	COST
1	PERSONNEL					\$741,049
	Project Manager	1.0	174	\$34.84	\$0	
	Project Manager, Fish Biologist 4	12.0	174	\$34.84	\$72,746	
	Fish Biologist 2's - Pasco and PIT Tag Bios	24.0	174	\$27.91	\$116,552	
	Scientific Technician IV - Mid-River	9.0	174	\$25.28	\$39,588	
	Scientific Technician - Data Entry	9.0	174	\$19.75	\$30,929	
	Scientific Technician - WFAR, Logistics	6.0	174	\$22.90	\$23,908	
	Scientific Technician C/S - 10 ea/6 mo Crew Leaders	64.0	174	\$19.75	\$219,936	
				Subtotal Salaries	\$503,659	
	Benefits					
	Permanent Yearly Staff*			\$503,659	20.35%	\$102,495
	*(Benefit calculation based on OASI=6.2%, retirement=12.7%, medicare=1.45% of salary)					
	Permanent Yearly Staff Health + L&I**	125	Months @	\$1,079.16	\$134,895	
	**(Benefit calculation based on avg. \$166.16/mo L&I + avg \$913/mo heal h)					
				Subtotal Benefits	\$237,390	
2	TRAVEL					\$87,015
	Per diem (Average Standard Rate-Including Lodging)	16	Days @	\$144	\$2,304	
	WDFW Motor Pool (Trucks)	54	months @	\$263	\$14,202	
	WDFW Motor Pool (Vans)	42	months @	\$297	\$12,474	
	WDFW Motor Pool Mileage (Trucks)	70,000	miles @	0.34	\$23,800	
	WDFW Motor Pool Mileage (Vans)	65,000	miles @	0.44	\$28,600	
	WDFW Vehicle Mileage/Maintenance	1	Year @	\$4,000	\$4,000	
	Mileage Reimbursement	3000	Miles @	\$0.545	\$1,635	
3	SUPPLIES/SERVICES					\$13,542
	Supplies/Equipment					
	Office Supplies	1	Season @	\$1,000	\$1,000	
	Field Materials/Supplies	6	Months @	\$400	\$2,400	
				Subtotal Office	\$3,400	
	Services					
	WDFW Field Facility Charges (Internet, Utilities)	12	Months @	\$400	\$4,800	
	Vehicle Insurance (Supplemental)	1	Season @	\$4,000	\$4,000	
	Safety Training	1	Year @	\$1,100	\$1,342	
				Subtotal Field	\$10,142	
	TOTAL WDFW DIRECT COSTS			Items 1 thru 3:	\$841,606	
	WDFW INDIRECT COSTS	28.78%	of	\$841,606	\$242,214	
	TOTAL WDFW PROJECT COSTS				\$1,083,820	
	PSMFC ADMIN FEE	1.39%	of	\$1,083,820	\$15,065	
	CONTRACT TOTAL				\$1,098,885	

		Quantity	Unit	Rate	Total
2. Benefits					
(b) (6)		(b) (6)			
(b) (6)					
EBA Seasonal (0507.114)		3	months	58.46%	\$
EBA Seasonal (2820.879)		3	months	58.46%	\$
EBA Seasonal (2820.874)		3	months	58.46%	\$
EBA Seasonal (2820.868)		3	months	58.46%	\$
EBA Seasonal (2820.860)		4	months	58.46%	\$
EBA Seasonal (2820.865)		4	months	58.46%	\$
EBA Seasonal (2820.876)		4	months	58.46%	\$
EBA Seasonal (2820.872)		4	months	58.46%	\$
EBA Seasonal (2820.880)		2	months	58.46%	\$
	TOTALS				\$ 19
3. Travel					
		Quantity	Unit	Rate	Total
Lodging		451	days (5-8 staff)	\$ 93	\$ 4
Per Diem		542	days (5-8 staff)	\$ 51	\$ 2
Sedan (vehicle rental)		3	months	\$ 115	\$
Sedan (fuel, oil changes, etc.)		3	months	\$ 60	\$
3/4 ton pickups (5; vehicle rental)		37	months	\$ 335	\$ 1
3/4 ton pickups (5; fuel, oil changes, etc.)		37	months	\$ 305	\$ 1
Vehicle repair		2	occurrences	\$ 1,000	\$
	TOTALS				\$ 9

4. Services and Supplies	Quantity	Unit	Rate	Total
Office Supplies	64.33	FTE months	\$ 17	\$
Sampling Equipment (PFDs, nets, gloves, etc.)	5	boats	\$ 550	\$
Rain Gear	5	sets	\$ 200	\$
Ruggedized tablet for field data entry	3	units	\$ 1,761	\$
Boots	3	sets	\$ 100	\$
Tagging Supplies	3	months	\$ 325	\$
Lab Supplies (chemicals, nitrile gloves, etc.)	4	months	\$ 250	\$
Boat Supplies (oil, propellers, batteries, etc.)	4	months	\$ 800	\$
Data Mngt. Software (Pendragon or similar)	1	license(s)	\$ 598	\$
Rite in the Rain Paper Data Sheets	15	Packages	\$ 43	\$
Photocopier and Fax Rent	5	months	\$ 300	\$
Northwest Region Utilities	1	@	\$ 1,500	\$
Cellular Phone Service	60	months	\$ 50	\$
Maint., Operation and Repair of Boats	192	days	\$ 120	\$ 2
	TOTALS			\$ 4
5. Total Direct Costs				\$ 68
6. Indirect Costs (29.00%)				\$ 19
TOTAL ODFW Costs				\$ 88
7. PSMFC Admin Fee (1.39%)				\$ 1
Total Project Cost				\$ 89

Pacific States Marine Fisheries Commission							
Northern Pikeminnow 2018-2019 Budget Summary							
BPA Contract #: 78040, Rel 3/Project #: 1990-077-00							
PSMFC Job #: 1052F.18							
April 1, 2018 - March 31, 2019							
WDFW Dam Angling							
			Months	Hours/Month	Unit Cost	Total	COST
1 PERSONNEL							\$47,801
	Sci. Tech IV - Mid River		3.0	174	\$25.28	\$13,196	
	Sci Tech Crew Leader(WDFW)		5.5	174	\$19.75	\$18,901	
					Subtotal Salaries	\$32,097	
	Benefits						
	Permanent Yearly Staff*			\$32,097	20.35%	\$6,532	
				*(Benefit calculation based on OASI=6.2%, retirement=12.7%, medicare=1.45% of salary)			
	Permanent Yearly Staff Health & L&I**	8.5	Months @	\$1,079.16		\$9,173	
				**(Benefit calculation based on avg. \$166.16/mo L&I + avg. \$913/mo health)			
					Benefits Subtotal	\$15,705	
2 TRAVEL							\$3,890
	Supplemental Insurance (WDFW)		6	months	\$150	\$900	
	WDFW Motor Pool (Truck)		6	months @	\$279	\$1,674	
	WDFW Motor Pool Mileage (Truck)		4,000	miles @	\$0.329	\$1,316	
3 SERVICES & SUPPLIES							\$6,200
	Supplies						
	Angling Supplies - Bait/Tackle (WDFW)		5	Months @	\$1,200	\$6,000	
	Services						
	Safety/Training & Equipment (WDFW)		1	Employee @	\$200	\$200	
TOTAL WDFW DIRECT COSTS					Items 1 thru 3:	\$57,891	
WDFW INDIRECT COSTS			28.78%	of	\$57,891	\$16,661	
TOTAL WDFW PROJECT COSTS						\$74,553	
PSMFC ADMIN FEE			1.39%	of	\$74,553	\$1,036	
CONTRACT TOTAL						\$75,589	



Statement of Work Report

Data Current as of: 02/11/2019
 Report Printed: 02/11/2019

Project Title: Development of Systemwide Predator Control
Project #: 1990-077-00
Contract Title: 1990-077-00 EXP NORTHERN PIKEMINNOW MANAGEMENT PROGRAM
Contract #: 78040 REL 13
Province: Non-Provincial **Subbasin:** Mainstem
Workorder ID: 78189 **Task ID:** 1
Perf. Period Budget: \$4,384,624 **Perf. Period:** 4/1/2019 - 3/31/2020
Contract Type: Release **Pricing Type:** Cost Reimbursement (CNF)
Contractor(s): Pacific States Marine Fisheries Commission (Prime - PACISTAT00)
BPA Internal Ref: 78040 REL 13
SOW Validation: Last validated 01/24/2019 with 0 problems, and 0 reviewable items

Contract Documents:	Transmittal Memo (01/22/2019)	Transmittal Memo for CR-325651
	Budget - Contract (01/24/2019)	Northern Pikeminnow Sport Reward Program Budg...
	Property Inventory (01/22/2019)	Northern Pikeminnow Sport Reward Property Inv...

Contract Description:

The Northern Pikeminnow Management Program (NPMP) is a basin-wide program to harvest northern pikeminnow (*Ptychocheilus oregonensis*). It was started in 1991 in an effort to reduce predation by northern pikeminnow on juvenile salmonids during their emigration from natal streams to the ocean. Modeling studies in John Day reservoir in the 1980's indicated a 10-20% removal of predacious sized pikeminnows could cut predation by up to 50%. Over the years various gear types, both sport and commercial, were tested to determine the most expeditious means to remove 10-20% of the pikeminnows. The Sport Reward Fishery using sport anglers with hook and line was found to be the most effective. The NPMP is administered technically and fiscally by the Pacific States Marine Fisheries Commission (PSMFC) in cooperation with Washington Department of Fish and Wildlife (WDFW) and the Oregon Department of Fish and Wildlife (ODFW). Program evaluation, population indexing, tagging operations, and other predator response is studied and evaluated by ODFW. The Sport Reward Fishery is implemented by WDFW through manning Sport Reward Fishery registration stations, collecting and disposing of pikeminnows caught and issuance of reward vouchers. The PSMFC pays all rewards and assists WDFW in staffing the registration stations along with fiscal and technical services to the two state agencies. The NPMP is currently in the management phase of the program, having explored and refined the most effective techniques to remove pikeminnows over the past twenty years. The applied research component handled by ODFW continues each year along with the management component. 2018 was another very successful year for the NPMP with a total of 180,309 pikeminnow removed via the Sport Reward and Dam Angling programs. Pikeminnow removals resulted in meeting the programs exploitation rate goals coming in at just over 16.8% for 2018. We anticipate conducting dam angling program again in 2019.

Contacts:

Name	Role	Organization	Phone/Fax	Email	Address
Peter Lofy	F&W Approver	Bonneville Power Administration	(503) 230-4193 / (503) 230-4563	ptlofy@bpa.gov	905 NE 11th Ave. Portland OR 97232
Khanida Mote	Contracting Officer	Bonneville Power Administration	(503) 230-4599 / NA	kpmote@bpa.gov	P.O. Box 3621 Mailstop Nssp-4 Portland OR 97208



Brad James	Interested Party	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6716 / NA	brad.james@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Eric Winther	Technical Contact	Washington Department of Fish and Wildlife (WDFW)	(360) 906-6749 / NA	Eric.Winther@dfw.wa.gov	2108 Grand Blvd Vancouver WA 98661
Pam Kahut	Technical Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	pam_kahut@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202-6413
Randy Fisher	Technical Contact	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	randy.fisher@psmfc.org	205 SE Spokane St Suite 100 Portland OR 97202-6413
Tucker Jones	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6067 / NA	tucker.a.jones@state.or.us	
Michael Arredondo	Interested Party	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	marredondo@psmfc.org	205 SE Spokane St, Suite 100 Portland OR 97202
Daniel Gambetta	Env. Compliance Lead	Bonneville Power Administration	(503) 230-3493 / NA	dagambetta@bpa.gov	OR
Steve Williams	Supervisor	Pacific States Marine Fisheries Commission	(503) 595-3100 / NA	swilliams@psmfc.org	
Catherine Al-Sheikhly	Contract Manager	Pacific States Marine Fisheries Commission	(503) 595-3224 / NA	kalsheikhly@psmfc.org	
Adam Storch	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6069 / NA	adam.j.storch@state.or.us	971-673-6069 Salem OR
Elham Zolmajd-Haghighi	CO Assistant	Bonneville Power Administration	(503) 230-7414 / NA	ezolmajd-haghighi@bpa.gov	P.O. Box 3621 Mailstop - NSSP-4 Portland OR 97208-3621
Tybee Sheidler	CO Assistant	Bonneville Power Administration	(503) 230-3820 / NA	tasheidler@bpa.gov	P.O. Box 3621 Mail Stop NSSP-4 Portland OR 97208-3621
Eric McOmie	COTR	Bonneville Power Administration	(503) 230-4964 / NA	ermcomie@bpa.gov	
Mac Barr	Interested Party	Oregon Department of Fish and Wildlife	(971) 673-6081 / NA	c.mac.barr@state.or.us	

Work Element Budget Summary:

<u>Work Element - Work Element Title</u>	<u>EC Needed*</u>	<u>Estimate</u>	<u>(%)</u>
A : 185. Produce Pisces Status Report - Periodic Status Reports for BPA		\$878	(0.02 %)
B : 165. Produce Environmental Compliance Documentation -		\$1,974	(0.05 %)



Produce Environmental Compliance		
C : 119. Manage and Administer Projects - Provide Pikeminnow Management Program contractual and fiscal oversight	\$285,147	(6.50 %)
D : 122. Provide Technical Review and Recommendation - Prepare biological opinion data computations, salmonid catch reporting and budget preparations	\$24,566	(0.56 %)
E : 99. Outreach and Education - Promotion/Sport Show Outreach	\$39,482	(0.90 %)
F : 158. Mark/Tag Animals - Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals	* \$414,712	(9.46 %)
G : 157. Collect/Generate/Validate Field and Lab Data - Pikeminnow- 2019 Sport Reward Fishery Data Collection/Processing	* \$74,577	(1.70 %)
H : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- Operate Sport Reward Fishery Registration/creel check stations	* \$1,293,876	(29.51 %)
I : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow- 2019 Sport Reward Fund	* \$1,729,300	(39.44 %)
J : 157. Collect/Generate/Validate Field and Lab Data - Evaluate effects of the 2019 pikeminnow removals on reduction in salmonid predation	* \$171,088	(3.90 %)
K : 162. Analyze/Interpret Data - Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries	\$221,730	(5.06 %)
L : 190. Remove, Exclude and/or Relocate Animals - Pikeminnow - Dam Angling at The Dalles and John Day Dams	* \$123,785	(2.82 %)
M : 132. Produce (Annual) Progress Report - Submit RM&E Annual Technical Report for Calendar Year 2019	\$1,755	(0.04 %)
N : 202. Produce BiOp RPA Report - BiOp RPA Report for CY 2019	\$1,754	(0.04 %)
Total:	<hr style="width: 250px; margin-left: auto; margin-right: 0;"/> \$4,384,624	

* Environmental Compliance (EC) needed before work begins.

Statement of Work Report

Work Element Details

A: 185. Produce Pisces Status Report

Title:	Periodic Status Reports for BPA	
Description:	The Contractor shall report on the status of milestones and deliverables in Pisces. Reports shall be completed either monthly or quarterly as determined by the BPA COTR. Additionally, when indicating a deliverable milestone as COMPLETE, the contractor shall provide metrics and the final location (latitude and longitude) prior to submitting the report to the BPA COTR.	
Deliverable Specification:		
Work Element Budget:	\$878	(0.02 %)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Apr-Jun 2019 (4/1/2019 - 6/30/2019)	7/1/2019	7/15/2019	Inactive	
B. Jul-Sep 2019 (7/1/2019 - 9/30/2019)	10/1/2019	10/15/2019	Inactive	
C. Oct-Dec 2019 (10/1/2019 - 12/31/2019)	1/1/2020	1/15/2020	Inactive	
D. Final Jan-Mar 2020 (1/1/2020 - 3/31/2020)	3/17/2020	3/31/2020	Inactive	

B: 165. Produce Environmental Compliance Documentation

Title: Produce Environmental Compliance
Description: Produce Environmental Compliance Documentation
Deliverable Specification: Produce environmental compliance documentation. Provide copy of current NMFS Biological Opinion for P keminnow Management Program to EC Lead
Work Element Budget: \$1974 (0.05 %)
Planned Metrics: * Are herbicides used as part of work performed under this contract?: No
 * Will water craft, heavy equipment, waders, boots, or other equipment be used from outside the local watershed as part of work performed under this contract?: Yes

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Obtain/Renew applicable local, state, federal and tribal environmental permits	4/1/2019	3/31/2020	Inactive	Work done to obtain permits such as Sec. 401 or 404 (including RGP process), shoreline, NPDES, or any other required federal, state, or local permits. Send copies of final permits to EC Lead as requested.
B. Determine if contract work could adversely affect Pacific lamprey	4/1/2019	2/15/2020	Inactive	Contractor will review work proposed under this contract and determine the following: 1) Will field work take place in any area where lamprey may be present? (Any tributary or subbasin where anadromous fish exist is also accessible Pacific lamprey habitat.) 2) Are there any stream disturbing activities or instream activities that could adversely impact Pacific lamprey? Examples of activities posing a threat to lamprey may include (this list is not intended to be all-inclusive): aquatic habitat improvements, fish passage improvements, culvert replacements, water diversions, altered management of water flows, dewatering of any portions of streams, or alteration of irrigation practices. If the answer is yes to BOTH 1 and 2, the contractor must implement USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (Entosphenus tridentatus) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf (BMPs).
C. Report lamprey observation and catch data to USFWS by Feb. 15	4/1/2019	2/15/2020	Inactive	[IF ALL WORK UNDER THE SOW IS IN SUBBASINS BLOCKED TO ANADROMOUS SPECIES, ASK YOUR COTR TO CANCEL THIS MILESTONE.] All contractors doing instream work (e.g., surveys, habitat improvements, electrofishing, screwtraps, etc.) in anadromous fish areas are required to annually report lamprey observations or catch, including zero, by Feb 15 for the previous calendar year's work. A data template is available at: (https://www.bpa.gov/efw/FishWildlife/InformationforContractors/IFCDocuments/Lamprey_Database_Template.xls) As per instructions on the form, email your data to christina_wang@fws.gov at US Fish and Wildlife Service and CC your COR. For identification of lamprey life stages see page 10 of USFWS Best Management Practices to Minimize Adverse Effects to Pacific Lamprey (Entosphenus tridentatus) http://www.fws.gov/pacific/Fisheries/sphabcon/lamprey/pdf/Best%20Management%20Practices%20for%20Pacific%20Lamprey%20April%202010%20Version.pdf .



Milestone Title	Start Date	End Date	Status	Milestone Description
D. Inspect water craft, waders, boots, etc. to be used in or near water for aquatic invasive species	4/1/2019	11/30/2019	Inactive	Aquatic invasive Species Guidance: Uniform Decontamination Procedures: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Best management guidance for boaters: http://www.westernais.org -- Aquatic Nuisance Species newsletter: http://www.aquaticnuisance.org/newsletters -- State Aquatic Invasive Species Management Plans: Oregon: http://www.aquaticnuisance.org/wordpress/wp-content/uploads/2009/01/Recommended-Protocols-and-Standards-for-Watercraft-Interception-Programs-for-Dreissenid-Mussels-in-the-Western-United-States-September-8.pdf -- Washington: http://www.wdfw.wa.gov/publications/pub.php?id=00105 -- Montana: http://www.anstaskforce.gov/Montana-FINAL_PLAN.pdf -- Idaho: http://www.anstaskforce.gov/stateplans.php
E. Inspect and, if necessary, wash vehicles and equipment infested with terrestrial invasive species	4/1/2019	11/30/2019	Inactive	Prevent spread of invasive species by identifying and removing invasive species from work vehicles and equipment. Consult resources such as the Plants Database (http://plants.usda.gov/index.html) or the NatureServe Explorer (http://www.natureserve.org/explorer/) with assistance identifying invasive plants. Other resources include state natural resource offices (https://www.fws.gov/offices/statelinks.html) or a local U.S. Fish and Wildlife Service Office (https://www.fws.gov/offices/).
Deliverable: F. Produce Environmental Compliance Documentation		3/31/2020	Inactive	<i>See the Deliverable Specification above</i>

C: 119. Manage and Administer Projects

Title: Provide Pikeminnow Management Program contractual and fiscal oversight

Description: Generate contract budgets and provide fiscal and technical oversight for all components of the Northern Pikeminnow Management Program and its subcontractors.

Deliverable Specification: Provide effective implementation and administration: a) evaluate current workload and monitor implementation progress; b) develop work plan consistent with expected budget availability and potential tasks or projects; and c) integrate and manage the planning, permitting, environmental compliance, and coordinated implementation of contract actions.

Work Element Budget: \$285147 (6.50 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Error-check & update actual WE budget spending w/in 4 months (reflect contract close-out value)	9/1/2019	3/31/2020	Inactive	No later than 4 months after the end of the previous contract, (a) open the prior-year contract SOW at the "WE Budget" tab; and (b) enter "Updated" WE budget amounts to reflect the final contract close-out amount actually spent by the contractor.
B. Facilitate inputting Cost Share information into Pisces at the Project level	9/30/2019	11/15/2019	Inactive	Cost share information can be input anytime during the contract (e.g., concurrent with quarterly status reports) but no later than November 15 for each fiscal year. There are multiple contractors under this project and I am the lead project Proponent. I will solicit cost share information for the previous federal FY from project partners and enter previous FY's Cost Share information on the Project Cost Share tab by Nov 15 for all project partners.
C. Comply with all applicable federal, state, tribal and local safety requirements, including reporting	4/1/2019	3/31/2020	Inactive	As described in the contract's Terms and Conditions, the contract manager and contractor shall comply with all applicable federal, state, tribal and local safety laws, rules, regulations and requirements.
D. Process and Pay reward vouchers and prepare IRS Form 1099's for anglers	5/1/2019	11/30/2019	Inactive	Receive pikeminnow vouchers from anglers. Enter, validate and create payments for vouchers received. Accumulate angler data for the season and issue IRS Form 1099 at end of year if appropriate.



Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: E. Effective implementation management and timely contract administration		3/31/2020	Inactive	See the Deliverable Specification above

D: 122. Provide Technical Review and Recommendation

Title: Prepare biological opinion data computations, salmonid catch reporting and budget preparations

Description: Compute salmonid species and stock ratios for listed stocks to apply to incidental salmonids taken in the pikeminnow fishery. Apply these ratios to the weekly incidental catches of salmonids in the dam angling, sport reward and evaluation fisheries.

Deliverable Specification: Determine the salmonid listed stock ratios and apply mortalities from the Biological Opinion for all incidental caught salmonids, adults and juveniles in the pikeminnow fisheries. Supply weekly reports of these catches and mortalities to NMFS.. This may be modified depending on the final acceptance and language of the Biological Opinion by the federal court.

Work Element Budget: \$24566 (0.56 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Compute weekly catch of pikeminnows, salmonids and other species in the weekly Sport Reward Fund	5/1/2019	11/15/2019	Inactive	Compile and submit weekly catches of pikeminnows, adult and juvenile salmonids and other fish species for National Marine Fisheries Service (NMFS) and the Northern Pikeminnow Management Program (NPMP) participants as specified in the B.O. The report uses ratios to estimate the percentage of reports salmonid catches that are listed stocks. This number is monitored in the weekly report against the allowed salmonid catches of listed stocks in accordance with the B.O.
Deliverable: B. Salmonid Take ratios for listed stocks and weekly report to NMFS		3/31/2020	Inactive	See the Deliverable Specification above

E: 99. Outreach and Education

Title: Promotion/Sport Show Outreach

Description: Program promotion through fishing clinics, Television promotion, Sportsman's Show booths, and program brochure and print media. This may be done partially under a subcontract.

Deliverable Specification: Conduct fishing clinics and present program materials at Sportsman's Show booths. Develop program promotion materials for print and other media outlets.

Work Element Budget: \$39482 (0.90 %)

Planned Metrics: # of general public reached: 2000

Locations: 1

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
Deliverable: A. Program promotion		3/31/2020	Inactive	See the Deliverable Specification above

F: 158. Mark/Tag Animals

Title: Mark and PIT Tag Northern pikeminnows system-wide for evaluation of program goals

Description: Collect pikeminnow for tagging with spaghetti tags and PIT Tags for population and evaluation studies for the Northern Pikeminnow Management Program. This will be done under a subcontract.



Deliverable Specification: Tag p keminnow for population and program evaluation studies. Evaluate tagged pikeminnow caught in the sport reward and test dam angling fisheries to determine pikeminnow exploitation rates and salmonid predation reduction in the various segments of the fishery.

Work Element Budget: \$414712 (9.46 %)

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring
 * # of "other" tag/marks applied to fish: 1000

Locations: 1

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations

Country: US **NPCC Subbasin:** Deschutes
State: OR **HUC5 Watershed:** Cedar Island-Deschutes River
County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2019	3/31/2020	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Order PIT tags in TDI system	4/1/2019	5/1/2019	Inactive	Submit tag request in the Tag Distribution and Inventory application (TDI) at http://www.ptagis.org/services/tag-distribution-inventory indicating when the tags are needed (one or multiple shipments). Tag orders should be placed during September and October for shipment any time during the fiscal year. Funding for the tags occurs at the project level.
C. Collect, tag and Pit tag pikeminnow throughout the Sport Reward Fishery area-Columbia and Snak	4/1/2019	7/1/2019	Inactive	Index the pikeminnow fishery in the various sections of the lower and middle Columbia river and in the Snake river. Apply spaghetti tags to p keminnows for population studies and exploitation rate computations. Pit tag pikeminnow with spaghetti tags for tag loss computations. Collect stomachs from pikeminnows, smallmouth bass and walleye for feeding study analysis
Deliverable: D. Collect and tag pikeminnow with spaghetti tags and PIT tags for program evaluation studies.		7/31/2019	Inactive	<i>See the Deliverable Specification above</i>

G: 157. Collect/Generate/Validate Field and Lab Data

Title: P keminnow- 2019 Sport Reward Fishery Data Collection/Processing

Description: Maintain angler database of registrations and reward vouchers issued. Compute and issue reward checks and prepare IRS reports on payments made and issue IRS Form 1099's to anglers.

Deliverable Specification: Maintain the database of daily registered anglers and the catch of successful anglers along with reward vouchers issued for untagged and tagged fish. Process vouchers issued and mail rewards.

Work Element Budget: \$74577 (1.70 %)

Planned Metrics:
 * Primary R, M, and E Focal Strategy : Predation
 * Primary R, M, and E Type : Status and Trend Monitoring

Locations: 5

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations

Country: US **NPCC Subbasin:** Multiple
State: Multiple **HUC5 Watershed:** Multiple
County: Benton | Clatsop | Multnomah | Nez Perce | Sherman **HUC6 Name:** Multiple

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible) | Snake River Basin Steelhead DPS (Accessible) | Snake River Fall-run Chinook Salmon ESU (Access ble)

Study Design: Predation Modeling (1990-077-00) v1.0
Study Design Owner: Steve Williams **Protocol State:** Draft
Sample Design: 2007 Sport Reward Fishery Data Collection/Processing - Pacific States Marine Fisheries Commission v1.0
Data Repositories:



Northern Pikeminnow Sport (<http://www.pikeminnow.org>)
 Reward Fishery Program
 Website

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2019	3/31/2020	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Review, revise, and publish Protocol and Methods in MonitoringResources.org	4/1/2019	3/31/2020	Inactive	The Protocol (including temporal and spatial design) and Methods for this work element are stored at MonitoringResources.org and need to be finalized (i.e., "Published" through MonitoringResources.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Protocols/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
C. Coordinate stations and operating times, staff and train registration clerks for the 19 statio	5/1/2019	11/30/2019	Inactive	Review past year's participation rates and catches along with times fish are returned to the various stations to set stations that will operation in the 2016 season and their times of operation. Set stations to operate in 2016 and their times of operation to maximize station open times in relation to catch and cost efficiency.
D. Provide program and fishery data to participants and interested parties at the stations	5/1/2019	10/31/2019	Inactive	Provide weekly catch computation for the Sport Reward Fishery to PSMFC for the weekly report and to monitor progress, success, and angler catch rates for the program stations.
E. Receive and edit sport reward voucher copies for completeness and enter into the catch databas	5/1/2019	11/30/2019	Inactive	Compile voucher copies and enter into the angler database at WDFW to validate against angler registrations and account balancing of voucher forms. Provide look up database for lost forms or angler inquires and validation with Pacific States Marine Fisheries Commission reward payments and original voucher processing.
Deliverable: F. Compilation of reward fishery registrations and vouchers issued for pikeminnow removals.		11/30/2019	Inactive	<i>See the Deliverable Specification above</i>

H: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- Operate Sport Reward Fishery Registration/creel check stations
Description: This work element addresses running the 19 registration/creel check stations on the river for the Sport Reward Fishery. This will be done under a subcontract.
Deliverable Specification: Operate the 19 registration/creel check stations on the Columbia and Snake rivers from May 1st through September 31st, or until the budget is projected to be fully spent for the season (at which point, close season early to prevent budget overrun).
Work Element Budget: \$1293876 (29.51 %)
Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)
Locations: 1
Primary Focal Species: Chinook (Oncorhynchus tshawytscha) - All Populations | Chum (Oncorhynchus keta) - Columbia River ESU | Coho (Oncorhynchus kisutch) - Lower Columbia River ESU | Sockeye (Oncorhynchus nerka) - All Populations | Steelhead (Oncorhynchus mykiss) - All Populations
Country: US **NPCC Subbasin:** Deschutes
State: OR **HUC5 Watershed:** Cedar Island-Deschutes River
County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River
Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2019	3/31/2020	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.



Milestone Title	Start Date	End Date	Status	Milestone Description
B. Issue vouchers for all qualifying pikeminnows turned in at the registration/creel stations	5/1/2019	9/30/2019	Inactive	Receive all eligible Northern pikeminnows at the Sport Reward Fishery registration/creel check stations and issue payment vouchers to anglers along with special tag vouchers if appropriated.
C. Operate 19 Registration/Creel stations from Cathlamet to Hells Canyon dam	5/1/2019	9/30/2019	Inactive	Hire, train and supervise the clerks for the 19 registration stations for daily operation during the 5 month season. Stations to be operated between Cathlamet, WA on the lower Columbia to Greenbelt on the upper Snake River.
D. Register anglers, collect pikeminnows caught, monitor pikeminnows for tags and Pit Tags	5/1/2019	9/30/2019	Inactive	Register anglers during station operation and manage after hours registration boxes and forms. Collect all eligible pikeminnow presented for rewards, record biological data and scan all pikeminnow for Pit tags -- both p keminnow inserted tags for tagged fish tag loss estimation and salmonid tags in the pikeminnow stomachs. Upload the Pit tag data to the PTAGIS database
Deliverable: E. Operate the Sport Reward Fishery registration/fish check stations		9/30/2019	Inactive	See the Deliverable Specification above

I: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow- 2019 Sport Reward Fund

Description: The reward fund used to pay regular and tag vouchers issued to Pikeminnow Sport Reward anglers. The 19 registration/creel stations utilized in the program are entered in the location fields.

Deliverable Specification: Reward fund for paying vouchers received daily. Issue checks debited to the reward fund.

Work Element Budget: \$1729300 (39.44 %)

Planned Metrics: Targeted animal: Pikeminnow, Northern (Ptychocheilus oregonensis)

Locations: 1

Primary Focal Species: Chinook (Oncorhynchus tshawytscha) - All Populations | Coho (Oncorhynchus kisutch) - Lower Columbia River ESU | Sockeye (Oncorhynchus nerka) - All Populations | Steelhead (Oncorhynchus mykiss) - All Populations | Chum (Oncorhynchus keta) - Columbia River ESU

Country: US **NPCC Subbasin:** Deschutes

State: OR **HUC5 Watershed:** Cedar Island-Deschutes River

County: Sherman **HUC6 Name:** Gordon Canyon-Deschutes River

Salmonid ESUs Present: Middle Columbia River Steelhead DPS (Accessible)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2019	3/31/2020	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Reward Fund for payment of pikeminnow fishery sport rewards.	5/1/2019	11/15/2019	Inactive	Manage voucher payment program daily, and pay every few days, all appropriate rewards for vouchers received from the reward fund.
Deliverable: C. Pikeminnow Sport Reward Fund		11/15/2019	Inactive	See the Deliverable Specification above

J: 157. Collect/Generate/Validate Field and Lab Data

Title: Evaluate effects of the 2019 pikeminnow removals on reduction in salmonid predation

Description: Determine the exploitation rates for the various sectors of the fishery in 2019. Estimate reductions in salmonid predation related to these rates. Evaluation of other predators compensatory responses to the annual removal of p keminnows. This will be done under a subcontract.

Deliverable Specification: Determine the percent reduction in salmonid mortality attributed to Northern Pikeminnow through 2018 in comparison with the program model and its expected reductions in salmonid predation at different exploitation rates.

Work Element Budget: \$171088 (3.90 %)

Planned Metrics: * Primary R, M, and E Focal Strategy : Predation



Locations:

Primary Focal Species: Chinook (*Oncorhynchus tshawytscha*) - All Populations | Chum (*Oncorhynchus keta*) - Columbia River ESU | Coho (*Oncorhynchus kisutch*) - Lower Columbia River ESU | Sockeye (*Oncorhynchus nerka*) - All Populations | Steelhead (*Oncorhynchus mykiss*) - All Populations

Country:

NPCC Subbasin:

State:

HUC5 Watershed:

County:

HUC6 Name:

Salmonid ESUs Present:

Study Design: Biological Evaluations (1990-077-00) v1.0

Study Design Owner: Steve Williams

Protocol State: Draft

Sample Design: Evaluate system-wide response of Pikeminnows and other predators to sustained fisheries - Pacific States Marine Fisheries Commission v1.0

Data Repositories: Northern Pikeminnow Sport (<http://www.pikeminnow.org>)

Reward Fishery Program Website

Area of Inference:	Name	Value
	Latitude, Longitude	45.638639, -121.108806
	Note:	

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Review, revise, and publish Study Design and Methods in monitoringmethods.org	4/1/2019	3/31/2020	Inactive	The Study Design (including temporal and spatial design) and Methods for this work element are stored at monitoringresources.org and need to be finalized (i.e., "Published" through monitoringresources.org), preferably prior to data collection. Preparations for contract renewals must include reviewing any previously published Study Design/Methods to ensure that they are consistent with how work will be done in any subsequent contract.
B. Evaluate response of Northern pikeminnow to sustained fisheries and removals	6/1/2019	3/31/2020	Inactive	Evaluate the response of Northern pikeminnow to fish removals by the sport reward fishery. Determine exploitation rate for the season and the Northern pikeminnow population size structure and biological characteristics along with other predator responses to less competition as a result of these sustained fisheries.
Deliverable: C. Evaluation of pikeminnow removals on the population and predation		3/31/2020	Inactive	<i>See the Deliverable Specification above</i>

L: 190. Remove, Exclude and/or Relocate Animals

Title: P keminnow - Dam Angling at The Dalles and John Day Dams

Description: Provide dam angling across the face of the dam at the Powerhouse and other access ble areas for pikeminnow removals. Work to document time, area and season of pikeminnow presence in relation to spill and turbine operations. Work to be done at The Dalles and John Day dams from May 1st to October. Evaluate the potential for dam angling at other Columbia and Snake River Hydropower facilities. This may be done partially under a subcontract.

Deliverable Specification: Remove p keminnows from The Dalles and John Day dam with dam anglers from May 1st thru the end of September

Work Element Budget: \$123785 (2.82 %)

Planned Metrics: Targeted animal: Pikeminnow, Northern (*Ptychocheilus oregonensis*)

Locations: 2

Primary Focal Species: Chinook (*O. tshawytscha*) - Deschutes River Summer/Fall ESU | Chinook (*O. tshawytscha*) - Mid-Columbia River Spring ESU | Chinook (*O. tshawytscha*) - Snake River Fall ESU | Chinook (*O. tshawytscha*) - Snake River Spring/Summer ESU | Chinook (*O. tshawytscha*) - Snake River Spring/Summer (not listed) | Chinook (*O. tshawytscha*) - Upper Columbia River Spring ESU | Chinook (*O. tshawytscha*) - Upper Columbia River Summer/Fall ESU | Sockeye (*Oncorhynchus nerka*) - All Populations

Country: US **NPCC Subbasin:** Multiple

State: WA **HUC5 Watershed:** Multiple

County: Klickitat **HUC6 Name:** Multiple

Salmonid ESUs Present: Columbia River Chum Salmon ESU (Accessible)



Milestone Title	Start Date	End Date	Status	Milestone Description
A. Environmental compliance requirements complete	4/1/2019	3/31/2020	Completed	On-the-ground work associated with this work element cannot proceed until this milestone is complete. Milestone is complete when final documentation is received from BPA environmental compliance staff.
B. Evaluate opportunity for Dam Angling at other Columbia and Snake River Facilities	5/1/2019	10/1/2019	Inactive	Evaluate the opportunity for additional dam angling and subsequent p keminnow removal at other Columbia and Snake River Hydropower facilities.
Deliverable: C. Dam Angling at The Dalles and John Day dams.		10/15/2019	Inactive	<i>See the Deliverable Specification above</i>

M: 132. Produce (Annual) Progress Report

Title: Submit RM&E Annual Technical Report for Calendar Year 2019

Description: The progress report summarizes the project goal, objectives, hypotheses, completed and uncompleted deliverables, problems encountered, lessons learned, and long-term planning. Examples of long-term planning include future improvements, new directions, or level of effort for contract implementation, including any ramping up or ramping down of contract components or of the project as a whole. Date range for the new RM&E Annual Technical Report is CY2015. This may or may not coincide with the contract period. For an ongoing project, a progress report covering a contract period may be submitted under the subsequent contract, if approved by the COTR. Progress reports must conform to BPA guidelines. See the "formatting guidelines" link at the Technical Reports and Publications page: <https://www.cbfish.org/Help.mvc/GuidanceDocuments>. If producing a technical report for this contract, a discrete experiment, or a peer-reviewed publication, use work element 183: Produce Journal Article.

Deliverable Specification: The Deliverable is considered complete when the final report is posted. It usually takes BPA 30-45 days to post the final PDF version of a report. This milestone's end date should therefore be 45 days after the final version is uploaded in Pisces. You will receive an email from BPA confirming that your report has been finalized and posted to the web. Mark this milestone complete when you have confirmed your final report has been posted. If you do not receive such an email after 45 days, contact your COTR.

Work Element Budget: \$1755 (0.04 %)

Planned Metrics: * Start date of reporting period : 1/1/2019
* End date of reporting period : 12/31/2019

Milestone Title	Start Date	End Date	Status	Milestone Description
A. RM&E Technical: Prepare for RM&E Technical Report. Review the revised (2014) guidance & template	8/1/2019	10/14/2019	Inactive	Review the newly-revised guidance & template for your RME Technical Report. BPA Fish and Wildlife project sponsors who have the following work elements in their contracts are required to complete a RM&E technical report: 156 Develop RM&E Methods and Designs, 157 Collect/Generate/Validate Field and Lab Data, 158 Mark and Tag Animals, and/or 162 Analyze/Interpret Data. Reports must show cumulative results and synthesis for the duration data collection/analysis studies. Final RME reports are due in March to align with regulatory reporting timelines.
B. RM&E Technical: Upload draft RM&E Technical Report (MS Word) for BPA review	10/15/2019	12/14/2019	Inactive	Upload your draft RM&E report into the Pisces Attachments tab as an MS Word document as a "Technical, Draft" for BPA review. BPA will review the draft RM&E report. If your Word file is too big to be uploaded, contact Pisces Support (support@cbfish.org). For more information on structure and content of your report, please use the newly-revised guidance & template for RME Reports located at https://www.cbfish.org/Help.mvc/GuidanceDocuments .
C. RM&E Technical: Upload finalized RM&E Technical Report (MS Word) for BPA to publish	12/15/2019	3/15/2020	Inactive	Address any BPA comments on the draft and re-upload finalized report into the Pisces Attachments tab as an MS Word document as a "Technical, draft." (Note: This MS Word format is a change in policy. BPA staff will now convert it to a PDF.)
Deliverable: D. Completed Annual Report		3/31/2020	Inactive	<i>See the Deliverable Specification above</i>

N: 202. Produce BiOp RPA Report

Title: BiOp RPA Report for CY 2019



Description: Projects that have claimed that they support one or more RM&E RPAs (i.e., RPAs 50-73) under the FCRPS BiOp are required to report their results. To facilitate the summary of these results across the entire Columbia River Basin, and to provide more clarity as to the format required under the BiOp, these reports are required to be completed online. If desired, the required information can be prepared in MS Word, and pasted into cbfish. For more guidance see https://www.cbfish.org/Content/tutorials/Reporting_Guidance_BiOp_2013.pdf.

Deliverable Specification: The online BiOp RPA report in Taurus (<https://www.cbfish.org/BiologicalOpinionAction.mvc/Index/2014/BiOpRpaStatus>) should include the data, analyses, and data management completed no later than December 31st. Any activity after the last day of the Calendar Year should be included in a subsequent BiOp report. For example, if you have completed redd surveys, but have not completed the scale analyses, you will report the preliminary data (# of redds), but not (incomplete) age distributions of carcasses, which would be reported in the subsequent CY report.

For each RPA, follow the directions in Taurus for each of the three sections and, input completed graphical or tabular data, accompanied by any complete explanatory text. These are cumulative summary reports and should show relevant results for the life of your project. Each year, note trends and whether they are changing from one year (or groups of years) to the next.

Work Element Budget: \$1754 (0.04 %)

Milestone Title	Start Date	End Date	Status	Milestone Description
A. Lead project proponent will download RPA questions from cbfish.org	11/1/2019	1/15/2020	Inactive	To prepare for your RPA report, 1) Go to www.cbfish.org and log in, 2) Navigate to your project and select "BiOp Annual Report" from the "Views/Action" menu button, 3) Click on "Input Needed" for each applicable RPA to find your RPA reporting requirements so you will know how much time to set aside for this task. You may also click the "download RPA doc" button to get all RPA questions in one MS Word document. 4). For further guidance or to request help, email BPA RM&E RPA support RMESupport@bpa.gov or email your COTR. (Milestone start/end: July 1 – September 30)
B. Lead project proponent will finalize calendar year report in cbfish.org	2/15/2020	3/15/2020	Inactive	The final version is due by March 15. (Milestone start/end: December 31 - March 15)
Deliverable: C. Submit BiOp RPA Report in Taurus		3/15/2020	Inactive	See the Deliverable Specification above

Inadvertent Discovery Instructions

BPA is required by section 106 of the National Historic Preservation Act (NHPA) to consider the effects of its undertakings on historic properties (16 USC 470). Prior to approving the expenditure of funds or conducting a federal undertaking, BPA must follow the section 106 process as described at 36 CFR 800. Even though BPA has completed this process by the time an undertaking is implemented, if cultural materials are discovered during the implementation of a project, work within the immediate area must stop and the significance of the materials must be evaluated and adverse effects resolved before the project can continue (36 CFR 800.13(b)(3)). The Inadvertent Discovery of Cultural Resources Procedure form outlines the steps to be taken and notifications to be made. If the undertaking takes place on tribal lands (16 USC 470w), BPA must also "comply with applicable tribal regulations and procedures and obtain the concurrence of the Indian tribe on the proposed action" (36 CFR 800.13(d)).

Inadvertent Discovery of Cultural Resources Procedure form:

<https://www.bpa.gov/efw/FishWildlife/InformationforContractors/IFCDocuments/InadvertentDiscoveryProcedure.pdf>

Northern Pikeminnow 2018-19 Budget Summary			
Project # 1900-077-00, BPA Contract # 78040 REL 13			
April 1, 2019 to March 31, 2020			
1052A.19	PSMFC Prog. Management	\$	335,397
1052B.19	PSMFC WA Creel Station Field Support	\$	207,538
1052C.19	WDFW Predator Control	\$	1,120,427
1052D.19	ODFW Predator Control	\$	875,010
1052E.19	PSMFC Dam Angling	\$	44,269
1052F.19	WDFW Dam Angling	\$	72,682
1052N.19	Sport Reward Fund		\$1,729,300
		\$	4,384,624
Totals per Budget Category			\$4,384,624
Personnel			\$1,716,733
PSMFC (Prog. Management, WA Creel Station Support, and Dam Angling)			\$402,468
WDFW (Predator Control, Dam Angling)			\$797,942
ODFW Pikeminnow			\$516,324
Travel			\$214,502
PSMFC (Prog. Management and WA Creel Station Field Support)			\$5,149
WDFW (Predator Control, Dam Angling)			\$98,033
ODFW Pikeminnow			\$111,320
Services/Supplies			\$142,778
PSMFC (Prog. Management, WA Creel Station Field Support, and Dam Angling)			\$78,462
WDFW (Predator Control, Dam Angling)			\$19,692
ODFW Pikeminnow			\$44,624
Contractual Services-PSMFC Prog. Management			\$35,000
Sport Reward Fund			\$1,729,300
Overhead/Indirect Rate (PSMFC)		12.69%	\$66,125
Overhead/Indirect Rate (WDFW)		28.78%	\$263,529
Overhead/Indirect Rate (ODFW)		28.64%	\$192,538
Subcontractor Admin pass-thru		1.18%	\$24,119
			\$456,067

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2018-19 Budget Summary

BPA Contract #: 78040 Rel 13/Project #: 1990-077-00

PSMFC Job #: 1052A.19 & 1052N.19

April 1, 2019 - March 31, 2020

PSMFC Program Management

1 PERSONNEL								\$227,766
				Months	Hours/Month	Unit Cost	Total	
	Program Administrator			6.0	173.33	\$64.56	\$67,137	
	Data Entry Supervisor			6.0	173.33	\$35.00	\$36,399	
	Data Entry Clerk			6.0	173.33	\$23.00	\$23,920	
	Administrative Specialist			6.0	173.33	\$26.86	\$27,930	
						Subtotal Salaries	\$155,386	
	Medical Premium:	Program Administrator				36%	\$24,169	
		Data Entry Supervisor				27%	\$9,828	
		Data Entry Clerk				27%	\$6,458	
		Administrative Specialist				27%	\$7,541	
	Benefit Rate:	Program Administrator			6	\$1,016	\$6,096	
		Data Entry Supervisor			6	\$1,016	\$6,096	
		Data Entry Clerk			6	\$1,016	\$6,096	
		Administrative Specialist			6	\$1,016	\$6,096	
						Subtotal Benefits	\$72,380	
2 TRAVEL								\$4,249
	Airfare			3	Trips @	\$500	\$1,500	
	Per Diem/Lodging	(National Avg.)		8	Days @	\$144	\$1,152	
	POV Mileage			2754	miles	\$0.580	\$1,597	

Pacific States Marine Fisheries Commission
Northern Pikeminnow 2017-2018 Budget Summary
BPA Contract #: 78040 Rel 13/Project #: 1990-077-00
PSMFC Job# 1052B.19
April 1, 2019 - March 31, 2020

PSMFC Washington Creel Station Support

		Months	Hours/Month	Unit Cost	Total	
1	PERSONNEL					\$138,017
	Temporary Scientific Tech's (PDX/Vancouver area) (4 Crew Members)	21	173.33	\$17.58	\$63,990	
	Temporary Scientific Tech's (Other Areas) (4 Crew Members)	21	173.33	\$16.58	\$60,350	
				Subtotal Salaries	\$124,340	
	Benefits					
	Temporary Staff		\$124,340	11%	\$13,677	
				Benefits Subtotal	\$13,677	
2	TRAVEL					\$900
	Bridge Tolls	450	Trips @	\$2	\$900	
3	SERVICES & SUPPLIES					\$45,250
	Supplies					
	Office Supplies	1	Season @	\$2,700	\$2,700	
	Field supplies	10	Crews @	\$400	\$4,000	
	Promotional supplies	1	Season @	\$2,000	\$2,000	
	Printing (Reg forms)	32,500	Forms @	\$0.160	\$5,200	
	Printing (Vouchers)	22,000	Forms @	\$0.225	\$4,950	
	Fish handling supplies	1	Season @	\$4,000	\$4,000	
				Subtotal Supplies	\$22,850	
	Services					
	Field office lease - Dallesport	6	Months @	\$600	\$3,600	
	Computer/printer supplies & maintenance	1	Year @	\$600	\$600	
	Safety/Training/Equipment	1	Year @	\$600	\$600	
	PIT tag scanner supplies & maintenance	1	Year @	\$3,000	\$3,000	
	Fish rendering/Cold storage	1	Season @	\$14,000	\$14,000	
	Fed Ex shipping	1	Season @	\$600	\$600	
				Subtotal Supplies	\$22,400	
TOTAL PSMFC DIRECT COSTS					Items 1 thru 3:	\$44,800
PSMFC INDIRECT COSTS		12.69%	of	\$184,167		\$23,371
CONTRACT TOTAL						\$207,538

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2018-2019 Budget Summary

BPA Contract #: 78040 Rel 13/Project #: 1990-077-00

PSMFC Job #: 1052C.19

April 1, 2019 - March 31, 2020

WDFW Predator Control

1 PERSONNEL							\$752,019
			Months	Hours/Month	Unit Cost	Total	
	Project Manager, Fish Biologist 4		12.0	174	\$35.53	\$74,187	
	Fish Biologist 2's - Pasco and PIT Tag Bios		24.0	174	\$28.47	\$118,891	
	Scientific Technician IV - Mid-River		9.0	174	\$25.79	\$40,387	
	Scientific Technician - Data Entry		9.0	174	\$20.14	\$31,539	
	Scientific Technician - WFAR, Logistics		6.0	174	\$23.36	\$24,388	
	Scientific Technician C/S - 10 Reg Station Crew Leaders		64.0	174	\$20.14	\$224,279	
					Subtotal Salaries	\$513,671	
	Benefits	Permanent Yearly Staff*			\$513,671	20.35%	\$104,532
		*(Benefit calculation based on OASI=6.2%, retirement=12.7%, medicare=1.45% of salary)					
		Permanent Yearly Staff Health + L&I**	124	Months @	\$1,079.16		\$133,816
		**(Benefit calculation based on avg. \$166.16/mo L&I + avg \$913/mo health)					
					Subtotal Benefits		\$238,348

	Quantity	Unit	Rate	Total
3. Travel				
Lodging	480	days (5-8 staff)	\$ 94	\$ 45,120
Per Diem	542	days (5-8 staff)	\$ 55	\$ 29,810
Jeep (vehicle rental)	2	months	\$ 400	\$ 800
Jeep (fuel, oil changes, etc.)	2	months	\$ 40	\$ 80
3/4 ton pickups (5; vehicle rental)	60	months	\$ 316	\$ 18,960
3/4 ton pickups (5; fuel, oil changes, etc.)	60	months	\$ 243	\$ 14,550
Vehicle repair	2	occurrences	\$ 1,000	\$ 2,000
	TOTALS			\$ 111,320
4. Services and Supplies				
	Quantity	Unit	Rate	Total
Office Supplies	53	FTE months	\$ 17	\$ 901
Sampling Equipment (PFDs, nets, gloves, etc.)	5	boats	\$ 650	\$ 3,250
Rain Gear	5	sets	\$ 200	\$ 1,000
Microscope and imaging software	1	units	\$ 4,250	\$ 4,250
Boots	3	sets	\$ 100	\$ 300
Tagging Supplies	3	months	\$ 325	\$ 975
Lab Supplies (chemicals, nitrile gloves, etc.)	4	months	\$ 250	\$ 1,000
Boat Supplies (oil, propellers, batteries, etc.)	4	months	\$ 800	\$ 3,200
Data Mngt. Software (Pendragon or similar)	1	license(s)	\$ 598	\$ 598
Rite in the Rain Paper Data Sheets	15	packages	\$ 43	\$ 650
Photocopier and Fax Rent	5	months	\$ 300	\$ 1,500
Cellular Phone Service	60	months	\$ 50	\$ 3,000
Maint., Operation and Repair of Boats	192	days	\$ 125	\$ 24,000
	TOTALS			\$ 44,624
5. Total Direct Costs				\$ 672,268
6. Indirect Costs (28.64%)				\$ 192,538
	TOTAL ODFW Costs			\$ 864,806
7. PSMFC Admin Fee (1.18%)				\$ 10,204
Total Project Cost				\$ 875,010

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2019-20 Budget Summary

BPA Contract #: 78040 Rel 13/Project #: 1990-077-00

PSMFC Job #: 1052E.19

April 1, 2019 - March 31, 2020

PSMFC Dam Angling

1	PERSONNEL						\$36,684
			Months	Hours/Month	Unit Cost	Total	
	Sci. Tech 1	3 crew members (temp)	11.5	173.33	\$16.58	\$33,049	
				Subtotal Salaries		\$33,049	
	Benefit Rate:		11%	of	\$33,049	\$3,635	
				Subtotal Benefits		\$3,635	
3	SERVICES & SUPPLIES						\$2,600
	Supplies						
	Field Supplies		4 Months @		\$500	\$2,000	
				Subtotal Services		\$2,000	
	Services						
	Safety/Training Equipment					\$600	
				Subtotal Services		\$600	
	TOTAL PSMFC DIRECT COSTS						\$39,284
4	OVERHEAD / INDIRECT		12.69%		of Items 1 thru 3:	\$39,284	\$4,985
	TOTAL PSMFC PROGRAM MANAGEMENT						\$44,269

Pacific States Marine Fisheries Commission

Northern Pikeminnow 2019-2020 Budget Summary

BPA Contract #: 78040 Rel 13/Project #: 1990-077-00

PSMFC Job #: 1052F.19

April 1, 2019 - March 31, 2020

WDFW Dam Angling

1	PERSONNEL					\$45,923
		Months	Hours/Month	Unit Cost	Total	
	Sci. Tech IV - Mid River	3.0	174	\$25.79	\$13,462	
	Sci Tech Crew Leader(WDFW)	5.0	174	\$20.14	\$17,522	
				Subtotal Salaries	\$30,984	
	Benefits					
	Permanent Yearly Staff*			\$30,984	20.35%	\$6,305
	*(Benefit calculation based on OASI=6.2%, retirement=12.7%, medicare=1.45% of salary)					
	Permanent Yearly Staff Health & L&I**	8	Months @	\$1,079.16	\$8,633	
	**(Benefit calculation based on avg. \$166.16/mo L&I + avg. \$913/mo health)					
				Benefits Subtotal	\$14,939	
2	TRAVEL					\$3,708
	Supplemental Insurance (WDFW)	1	year	\$600	\$600	
	WDFW Motor Pool (Truck)	6	months @	\$263	\$1,578	
	WDFW Motor Pool Mileage (Truck)	4,500	miles @	\$0.340	\$1,530	
3	SERVICES & SUPPLIES					\$6,150
	Supplies					
	Angling Supplies - Bait/Tackle (WDFW)	5	Months @	\$1,200	\$6,000	
	Services					
	Safety/Training & Equipment (WDFW)	1	Employee @	\$150	\$150	
TOTAL WDFW DIRECT COSTS				Items 1 thru 3:		\$55,781
WDFW INDIRECT COSTS		28.78%	of	\$55,781		\$16,054
TOTAL WDFW PROJECT COSTS						\$71,834
PSMFC ADMIN FEE		1.18%	of	\$71,834		\$848
CONTRACT TOTAL						\$72,682

Project 1990-077-00, Northern Pikeminnow Property Inventory -2019																			
PSMFC - Contract # 78040 Rel 13										Updated 1/22/19									
ID #	Asset #	Description	Serial No.	Cost	Check No.	Acquisition Date	Condition	Responsible Party	FA Class Code	FA Subclass Code	Location	Center Code	Job Code						
	5541	DELL OPT PLEX COMPUTER	DESK TOP				Good	(b) (6)											
	5542	DELL OPT PLEX COMPUTER	DESK TOP				Good												
	5380	DELL OPT PLEX COMPUTER	DESK TOP				Good												
		POLAR KING WALK SELF CONTA NED	Walk-in cooler	H810		04/01/15	New				WDFW								
		Boat, 768XX, "Z-Row"	OR # O38085	XRP18254A000	\$34,000	02/18/00	Poor				ODFW		443D						
		Boat, 833XX, "Indirect"	OR # O42737	XRP18322B505	\$53,399	03/28/05	Fair				ODFW		443D						
		Boat, 866XX, "Enterprise2"	OR # O47638	XRP18367B808	\$66,404	12/31/07	Good				ODFW		443D						
		Boat, 882XX, "Predator"	OR # O49898	XRP18387A010	\$78,091	02/11/10	Good				ODFW		443D						
		Boat, 920XX, "George Reed"	OR # O56639	US-18419C414	\$83,416	12/10/13	New				ODFW		443D						
		Outboard Engine, 768xx, "Z-Row"	OR # O56093	2B094342	\$6,744	05/13/14	Good				ODFW		443D						
		Outboard Engine, 833xx, "Indirect"	OR # O56649	5488429	\$7,729	03/10/17	New				ODFW		443D						
		Outboard Engine, 866xx, "Enterprise2"	OR # O56650	5488901	\$7,729	03/10/17	New				ODFW		443D						
		Outboard Engine, 882xx, "Predator"	OR # O56648	5473235	\$8,517	02/28/17	New				ODFW		443D						
		Outboard Engine, 920xx, "George Reed"	OR # O56647	2B196603	\$6,919	09/18/15	Good				ODFW		443D						
		Outboard Motor, 15 hp emergency kicker, "Z-row"	OR # O39348	OT544918	\$1,909	01/14/02	Fair				ODFW		443D						
		Outboard Motor, 15 hp emergency kicker, "Indirect"	OR # O44528	1B313049	\$1,521	03/31/06	Fair				ODFW		443D						
		Outboard Motor, 15 hp emergency kicker, "Enterprise2"	OR # O44529	1B313048	\$1,909	03/31/06	Fair				ODFW		443D						
		Outboard Motor, 15 hp emergency kicker, "Predator"	OR# O9999	OR852312	\$2,750	05/18/18	Good				ODFW		443D						
		Outboard Motor, 15 hp emergency kicker, "George Reed"	OR # O58447	OR710898	\$2,220	05/06/16	Good				ODFW		443D						
	5611	PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		287726	\$2,850	03/18/14	Good				WDFW								
	5612	PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		287737	\$2,850	04/04/14	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		329750	\$2,595	04/20/15	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		329760	\$2,595	04/20/15	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		316709	\$2,595	04/20/15	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		329698	\$2,595	04/20/15	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		430548	\$2,885	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		430547	\$2,885	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		430532	\$2,885	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		430550	\$2,885	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		430549	\$2,885	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		461180	\$2,845	2017	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		473671	\$2,845	2018	Good				WDFW								
No tag		PIT tag detector, Biomark HPR Plus Reader (portable transceiver)		473669	\$2,845	2018	Good				WDFW								