

Department of Fish and Wildlife

Fish Division
4034 Fairview Industrial Drive SE
Salem, OR 97302
(503) 947-6201
FAX (503) 947-6202
www.dfw.state.or.us/

OREGON

2017- SCIENTIFIC TAKING PERMIT - FISH

Permit Holder: **Michele DeHart** Permit Number: **21103**

Dates: 0216/17-12/31/17

Project Title: Smolt Monitoring Program and Comparative Survival Study

Organization: Fish Passage Center

Address: 847 NE 19th Ave, Suite 250, Portland, OR 97213

Phone: (503)833-3901 Email: mdehart@fpc.org

Federal Authorization: NMFS Determination of Take under 2008/2014 FCRPS Biological Opinion, issued

1/26/17, expires 12/31/17

Principal Investigator: Michele DeHart	Co-Investigator(s): Rick Martinson, Charles Morrill
PI Signature:	_CI Signature(s):
Location(s): Lower Grande Ronde HUC: Grande Ronde Riv	ver

CONDITIONS AND AUTHORIZATION OF THIS PERMIT:

<u>Middle Columbia-Hood HUC:</u> John Day Dam Juvenile Bypass System Middle Columbia-Lake Wallula HUC: McNary Dam Juvenile Bypass System.

- 1. The Permit Holder, Principal Investigator, Co-Investigator, and all people working under their supervision shall at all times observe and comply with all federal and state laws, including the Endangered Species Act of 1973, as amended, and lawful regulations issued thereunder, which relate to threatened or endangered plant or animal species while performing activities described in the permit application. ODFW's approval of this permit does not certify that Permittee's activities described in its application are lawful under the federal ESA. Permittee's compliance with permit conditions is not in lieu of compliance with any federal requirements related to the federal Endangered Species Act. General conditions of Oregon Revised Statutes and Oregon Administrative Rules apply to this permit that cannot be used in lieu of any permit required by federal law or regulation. Permission to sample in areas where federally protected fish may occur is contingent upon the permittee obtaining necessary authorization from the appropriate federal agency and acting in accordance with the conditions established by the federal government. If a condition on this permit conflicts with a condition on a federal permit or authorization, then the permittee must comply with the more restrictive condition.
- 2. This permit is not transferable and must be carried while collecting. The Principal Investigator and all Co-Investigators must sign their own copy of the permit.
- 3. Persons not named on the permit may assist in collecting only while accompanied by the Principal Investigator or Co-investigator(s) listed above.
- 4. Access to private property is contingent on landowner permission. This permit does not authorize trespassing.

- 5. This permit is not valid in any refuge, park, city, wildlife area, or area closed to collection without written approval of manager or administrator. When collecting from state parks, please contact Oregon Parks and Recreation Department to inquire about the need for a scientific research collection permit from them http://www.oregon.gov/oprd/NATRES/Pages/permitting.aspx
- 6. Sampling must be coordinated with local District Biologists of the Oregon Department of Fish and Wildlife and officials of the Oregon State Police and they must be notified prior to sampling.
- 7. An annual activity/collection report associated with this permit must be submitted to ODFW by December 31, 2017 via https://apps.nmfs.noaa.gov/. Renewal of this permit will not be issued until ODFW reviews and approves the annual activity/collection report. All fish, crayfish, and mussel take must be recorded in the annual report. Take is defined as harass, harm, pursue, hunt, shoot, wound, kill, trap, control, capture, or collect, or to attempt to engage in any such conduct.
- 8. May only conduct research and monitoring activities via methods as described in the attached APPS permit. Actual distribution of take among sites is authorized as described in the APPS permit application. All numbers of fish authorized in this permit and the attached APPS permit take table are annual totals.
- 9. Indirect mortality may not exceed 3% (electrofishing) or 1% (other methods). Mortality rates are calculated as a percentage of total catch, not to exceed the number as described in the take tables in the permit application. In the event that mortality for any species exceeds this rate, the permittee should contact ODFW ESA staff, (503-947-6254 or 541-464-2185) prior to any further activity.
- 10. If electrofishing, protocols must follow the guidelines established by the National Marine Fisheries Service (NMFS) in June 2000, including no shocking if water temperatures exceed 64.4°F. http://www.westcoast.fisheries.noaa.gov/publications/reference_documents/esa_refs/section4d/electro2000.pdf
- 11. If the water temperature exceeds 70°F at the capture site, all capturing and handling must stop in stream habitats that contain any salmon, steelhead, trout, or lamprey species.
- 12. Follow FDA approved protocols and use only FDA approved substances for anesthetizing fish.
 - a) MS-222 may not be used where fish may be subject to sport harvest fisheries within 21 days;
 - b) Clove oil may not be used at all;
 - c) **AQUI-S**® may be used as an alternative to MS-222. To use AQUI-S® 20E as an immediate release sedative in freshwater fish for field-based activities, permit holder must sign up to participate in USFWS-AADAP INAD 11-741 and must comply with the requirements as set forth in the INAD Study Protocol for AQUI-S® 20E (for more information go to www.fws.gov/fisheries/aadap).
 - d) Carbon dioxide can be used as a fish anesthetic as per FDA rules and requires no withdrawal time;
 - e) Electro-anesthesia can be used as a fish anesthetic as an alternative to chemicals, and requires no withdrawal time.

DATE: 2/16/2017

- 13. If sampling in multiple sub-basins (4th field HUCs), we recommend that after each sampling event concludes, all gear is cleaned and/or allowed to completely dry to prevent the spread of invasive species.
- 14. If you approach your permitted take or percent indirect mortality at a location and still have sampling to conduct, or would like to revise your sampling methods or procedures; please contact the ODFW ESA staff as soon as possible to request a permit modification so that you can continue your project.

ISSUED BY:

Michele Weaver

Endangered Species Act Specialist

503-947-6254

Distribution: Jones, Storch, French, Yanke, Bratcher, Duke -ODFW; Bellerud-NMFS

OREGON FISH BIOLOGISTS CONTACT DETAILS updated 12.21.16

ODFW District Biologist	Phone	E-mail	Watershed District	Office
Todd Alsbury	(971) 673-6011	Todd.Alsbury@state.or.us	North Willamette- Cascade Unit	Clackamas
Ben Walczak*	(971) 673-6013	Ben.Walczak@state.or.us	North Willamette- Cascade Unit	Clackamas
Tom Murtagh	(971) 673-6044	Tom.Murtagh@state.or.us	North Willamette- Coast Range	Clackamas
Josie Thompson*	(971)673-2040	Josie.E.Thompson@state.or.us	North Willamette- Coast Range	Clackamas
Tim Bailey	(541) 962-1829	Timothy.D.Bailey@state.or.us	Grande Ronde	LaGrande
Tucker Jones	(971) 673-6067	Tucker.A.Jones@state.or.us	Mainstem Columbia	Clackamas
John Spangler	(541) 265-8306 ext. 224	John.J.Spangler@state.or.us	Mid Coast	Newport
Jitesh Pattni*	(541) 265-8306 ext. 236	Jitesh.A.Pattni@state.or.us	Mid Coast	Newport
Todd Confer	(541) 247-7605	Todd.A.Confer@state.or.us	Rogue	Gold Beach
Steve Mazur*	(541)-247-7605	Steve.J.Mazur@state.or.us	Rogue	Gold Beach
Bill Duke	(541) 276-2344	William.B.Duke@state.or.us	Umatilla	Pendleton
Rod French	(541) 296-4628	Rod.A.French@state.or.us	Mid Columbia	The Dalles
Jason Seals*	(541)-296-4628	Jason.T.Seals@state.or.us	Mid-Columbia	The Dalles
Mike Gray	(541) 888-5515	Michael.E.Gray@state.or.us	Coos-Coquille	Charleston
Gary Vonderohe*	(541)-888-5515	Gary.R.Vonderohe@state.or.us	Coos-Coquille	Charleston
Brett Hodgson	(541) 388-6363 ext. 227	Brett.L.Hodgson@state.or.us	Deschutes	Bend
Erik Moberly*	(541)-447-5111 ext 24	Erik.R.Moberly@state.or.us	Deschutes	Bend
Tim Porter*	(541) 447-5111	Timothy.K.Porter@state.or.us	Deschutes	Prineville
Greg Huchko	(541) 440-3353 ext. 249	Greg.F.Huchko@state.or.us	Umpqua	Roseburg
Jason Brandt*	(541)-440-3353 ext.226	Jason.R.Brandt@state.or.us	Umpqua	Roseburg
Robert Bradley	(503) 842-2741	Robert.Bradley@state.or.us	North Coast	Tillamook
Mike Sinnott*	(503) 842-2741	Michael.Sinnott@dfw.state.or.us	North Coast	Tillamook
Elise Kelley	(541) 757-5249	Elise.X.Kelley@state.or.us	South Willamette	Corvallis

Alex Farrand*	(541) 757-5239	Alex.Farrand@state.or.us	South Willamette	Corvallis
Trevor Watson	(541) 575-1167	Trevor.M.Watson@state.or.us	John Day	John Day
Brent Smith*	(541) 575-1167	Brentton.A.Smith@state.or.us	John Day	John Day
Dave Banks	(541) 573-6582	David.T.Banks@state.or.us	Malheur	Hines
Ben Ramirez*	(541) 889-6975 ext. 25	Benji.S.Ramirez@state.or.us	Malheur	Ontario
Jeff Yanke	(541) 426-3279	Jeff.Yanke@state.or.us	Grande Ronde	Enterprise
Kyle Bratcher*	(541) 426-3279	Kyle.W.Bratcher@state.or.us	Grande Ronde	Enterprise
Vacant	(541) 883-5732	Vacant	Klamath	Klamath Falls
Bill Tinniswood*	(541) 883-5732	William.R.Tinniswood@state.or.us	Klamath	Klamath Falls
Justin Miles*	(541) 947-2950	Justin.P.Miles@dfw.state.or.us	Klamath	Lakeview
Dan Van Dyke	(541) 826-8774 ext. 234	Daniel.J.VanDyke@state.or.us	Rogue	Central Point
Pete Samarin*	(541) 826-8774	Peter.A.Samarin@state.or.us	Rogue	Central Point
Jeff Ziller	(541) 726-3515 ext. 26	Jeffrey.S.Ziller@state.or.us	South Willamette	Springfield
Kelly Reis*	(541) 726-3515	Kelly.E.Reis@state.or.us	South Willamette	Springfield
Scott Groth	(541) 888-5515	Scott.D.Groth@state.or.us	Marine Invertebrates	Charleston
Ali Whitman	(541) 867-4741 ext. 284	Alison.D.Whitman@state.or.us	Marine Zone	Newport
Christian Heath	(541) 867-0300 ext. 266	Christian.T.Heath@state.or.us	Marine Fish	Newport

^{* =} Assistant Fish Biologist





Authorizations and Permits for Protected Species (APPS)

File #: 21103

Title: Renew: Smolt Monitoring Program and Comparati

Applicant Information

Name: Michele DeHart

Title: Fish Passage Center Manager

Affiliation: Fish Passage Center

Address: 847 NE 19th Ave, Suite 250

City, State, Zip: Portland, OR 97213

Phone Number: (503)833-3901

Email: mdehart@fpc.org

Project Information

File Number: 21103

Project Number: FPC 47

Application Status: Application Complete - Issued

Project Title: Renew: Smolt Monitoring Program and Comparative Survival Study

Project Status: Renewal

Previous Federal or State

20128

Permit:

Permits Requested:

• Determination of Take Authorization under a Biological Opinion

• Oregon Scientific Taking Permit for Fish and Marine and Freshwater Invertebrates

PLEASE NOTE: Oregon Scientific Taking Permits only cover take and transport in the state of Oregon. It is the applicant's responsibility to obtain the necessary permits from all other states that may be associated with this project.

Where will activities occur? Idaho

Oregon (including Columbia River and offshore waters)

Washington (including Columbia River and offshore waters)

State department of fish and

game/wildlife:

N/A

Research Timeframe: Start: 01/26/2017 **End:** 12/31/2017

Sampling Season/Project

Duration:

The sampling season for both the Smolt Monitoring Program and the Comparative Survival Study extend from March 1 through October 31. The Smolt Monitoring Program

has been conducted annually since 1984. The Comparative Survival study has been conducted since 1996.

Management/Applied Research **Project Type(1):**

Project Type(2): Monitoring

Project Description

Purpose:

The Smolt Monitoring program (SMP) monitors the juvenile salmonid migration in the Snake/Columbia river basins. The information is used by the state, tribal and federal salmon managers for the development of in-season recommendations and post-season analyses for fish passage management actions in the hydrosystem. The Comparative Survival Study (CSS) is a multi-year program for the purpose of monitoring and evaluating the impacts of the mitigation measures and actions (e.g., flow augmentation, spill, and transportation) under the NMFS Biological Opinion to recover listed stocks.

Description: The SMP data is significant to several regional programs. Historical SMP data has provided the basis for development and implementation of Biological Opinion measures and Northwest Power and Conservation Council (NPCC) Fish and Wildlife Program measures. Each year the SMP provides data for daily and weekly passage management decisions used in implementation of the National Marine Fisheries Service (NMFS) Biological Opinion measures. SMP sampling also recovers mark groups from various activities, providing recapture data to the originating entity. Gas bubble trauma (GBT) symptom monitoring through the SMP is a pre-requisite established by NMFS and the state water quality agencies for implementation of the NMFS Biological Opinion spill for fish passage measures.

The SMP provides daily data on movement of smolts out of major river drainages and past the dams on the Snake and Columbia Rivers. Indices of migration strength and migration timing result for the run-at-large at key monitoring sites. In addition, marked smolts from hatcheries, traps, and dams provide measures of smolt speed and in-river survival through key index reaches. Fish quality, descaling and GBT measures are taken on samples of fish collected at each monitoring site supplying indicators of the health of the run. The SMP affords real-time fish passage data to fishery management entities and the hydroelectric power system managers, which they utilize in day-to-day river operations decisions. The SMP provides a continuous long-term fish passage database which is utilized in year-to-year comparisons of smolt travel time, passage timing, passage duration, dissolved GBT signs, juvenile survival estimates, relative to annual fish passage conditions and hydrosystem operations. The SMP will furnish data useful in the development of future long-term mitigation measures. There are no other viable alternatives to accomplish the goals of this project.

The Fish Passage Center (FPC) also annually, together with the CSS oversight committee, designs and oversees the implementation of the Comparative Survival Study. The state and tribal fishery agencies and US Fish and Wildlife Service have developed the CSS as a multi-year program for the purpose of monitoring and evaluating the impacts of the mitigation measures and actions (e.g., flow augmentation, spill, and transportation) under the NMFS Biological Opinion to recover listed stocks. The CSS allows comparisons of survival over different life stages among fish with different experiences in the hydrosystem (e.g., transportation vs. in-river migrants and migration through various numbers of dams).

Biological Opinion

Biological Opinion:

2008/2014 FCRPS Biological Opinion

Objectives:

- Smolt to Adult Returns
- Environmental Stressors
- Transportation
- Delayed Mortality
- Survival Monitoring

Justification:

The Smolt Monitoring Program is part of the Research Monitoring and Evaluation described in the Biological Opinion. The Smolt Monitoring Program activities are described in the updated proposed action under Research Monitoring and Evaluation sub strategy 1.3. The Comparative Survival Study objectives and products are described in the Research Monitoring and Evaluation section of the Biological Opinion in strategy 3, critical uncertainties research.

Review:

The project has undergone regional review and has been regionally approved as a high priority project. The scope, purpose and intent of the SMP is to provide a technical basis and justification for implementation of hydrosystem operations to enhance fish passage in the mainstem Columbia and Snake rivers. The SMP is reviewed annually relative to sampling constraints and sampling techniques with the objective of limiting fish handling and sampling as much as possible. The annual SMP is considered within the context of planned activities at mainstem dams, such as the Smolt Transportation Program. Dates of sampling at trap sites and mainstem sites are established to provide early indication of fish migration from major tributaries and through the mainstem including planned major hatchery releases. Consistency in sample dates is pursued to support year-to-year comparison of migration timing and duration relative to environmental factors, such as flow and temperature.

Supplemental Information

Methods:

The Smolt Monitoring Program (SMP) samples fish at several sites in the Columbia Basin including five traps and eight dams. Field work is carried out by various agencies, including the USFWS, WDFW, Nez Perce Tribe, ODFW, and PSMFC. Traps and dams operate to collect active migrant juvenile salmonids. A wide range of activities occur in association with monitoring including species-specific passage timing, mark information in migrants, external injury and disease information, mortality and descaling information, and finally PIT-tag marking is carried out at some SMP sites to aid in gathering longer-term data such as travel time, passage timing and survival for specific mark groups. The SMP tagging at the mainstem trap sites is augmented with additional tagging to estimate smolt to adult return rates as part of the CSS.

Daily sample rates for the SMP are based on the previous days' sample, and are designed to sample the least number of fish, while providing a statistically significant sample.

Lethal Take:

Animals:

Not Applicable

Anticipated Effects on

The 2017 take estimates of incidental mortality are based on data from the past five years conduct of the SMP, actual numbers intercepted by the Smolt Monitoring Program in 2016, and the anticipated project operations for 2017.

Measures to Minimize

Effects:

Whether fish are captured at traps or at juvenile bypass systems, the overall goal is to minimize handling effects on fish and to do this wet capture, anesthetic before handling, and recovery before release is emphasized. The FPC data entry program manual (http://www.fpc.org/documents/metadata/FPC32net 2015Manual.pdf) provides detailed descriptions of

data collected on individual fish and overall sample statistics, such as mortality rate. After fish are examined they are routed to a recovery tank. Typically, fish sampled at

transportation sites are ultimately routed to a raceway for transportation. If fish are to be returned to river, a minimum of 1 hour recovery time prior to release is recommended.

Disposition of Tissues: Not Applicable

Public Availability of All information is available through the Fish Passage Center website (www.fpc.org) on a daily basis and summarized in annual reports available via the website as well.

Product/Publications:

Biologist Comments

Date	From	Comments
01/10/2017	Kyle Bratcher	The Wallowa District supports this project
01/12/2017	Adam Storch	Columbia River program are supportive of this work for 2017.

Federal Information

No Federal comments or authorizations.

Location/Take Information

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Lower Grande Ronde Stream Name: Grande Ronde River

Sale in Oregon of species taken: None

Location Description: Grande Ronde Trap, Lower Grand Ronde River, GrT

Take Information

Li	ine Ve	r Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		1 ′	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	30	Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

2	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	900	16	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
3	,	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	100	4	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
4	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	4300	66	Liccus Ralanca Liva Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/26/2017	12/31/2017
5	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	280	6	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/26/2017	12/31/2017
6	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1120	22	Capture/Mark, Tag, Sample Tissue/Release Live Animal	Trap, Incline Plane	Tag, PIT	Spring/Summer	N/A	1/26/2017	12/31/2017
7	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	7000	140	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
8	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	5000	130	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
9	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	19000	350		Trap, Incline Plane	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
10	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Trap, Incline Plane	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
11	Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1200	24	Ticche/Releace Live Animal	Trap, Incline Plane	Tag, PIT	Summer	N/A	1/26/2017	12/31/2017

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Middle Columbia-Hood Stream Name: Middle Columbia River Sale in Oregon of species taken: None Location Description: John Day Dam Juvenile Bypass System, JDA

Take Information

Li	1e Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Bass, Largemouth	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2		Bass, Smallmouth	NA	Natural	Adult	Unknown	400	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
3		Bluegill	NA	Natural	Adult	Unknown	300	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
4	_ I	Bullhead (unknown)	NA	Natural	Adult	Unknown	25	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
5		Carp, Common	NA	Natural	Adult	Unknown	25	2	171811	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

6		Catfish, Channel	NA	Natural	Adult	Unknown	32	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
7		Crappie, Black	NA	Natural	Adult	Unknown	30	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
8		Dace, Longnose	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
9		Kilifish, Banded	NA	Natural	Adult	Male and Female	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
1	0	Kokanee	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
1	1	Lamprey, Pacific	NA	Natural	Juvenile	Unknown	15000	150	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

									with fish handling)					
12	Lamprey, Pacific	NA	Natural	Larvae	Unknown	3000	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
13	Lamprey, Pacific	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
14	 Mixed invertebrate	NA	N/A	Adult	Unknown	10000	100	Unknown	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)		N/A	N/A	1/26/2017	12/31/2017
15	Peamouth	NA	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
16	Perch, Yellow	NA	Natural	Adult	Unknown	400	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

17	Pikeminnow, Northern	NA	Natural	Adult	Unknown	100	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
18	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	500		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
19	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	4500		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
20	Salmon, Chinook	Snake River fall-run (NMFS Threatened)		Juvenile	Male and Female	500		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
21	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1300		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
22	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Intact	Juvenile	Male and Female	500		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017

				Auipose						with fish handling)					
2	23	Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
2	.4		Upper Columbia River spring-run (NMFS Endangered)	Natural	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
2	2.5	Salmon, Chinook	(NMFS	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1800	36	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
2	26	Salmon,	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1800	36	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
2	7	Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

28		Sculpin (unknown)	NA	Natural	Adult	Unknown	200		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
29		Shad, American	NA	Natural	Juvenile	Unknown	400000		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
30		Shad, American	NA	Natural	Adult	Unknown	100	50	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
31	S		Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	6000	120	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
32	S	Staalhand	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	3000		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
33	5		Snake River Basin (NMFS Threatened)	Listed Hatchery Intact	Juvenile	Male and Female	1500		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	Summer	N/A	1/26/2017	12/31/2017

			Auipose						with fish handling)					
34	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1500	30	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
35	Steelhead	Unspecified	Natural	Adult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017
36	Steelhead	Unspecified	Unlisted Hatchery	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017
37	Steelhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	4500	90	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
38	Steelhead	II bara an Calumaha	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017

39	Steelhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	4000	80	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
40	Stickleback Threespine	NA	Natural	Adult	Unknown	100	2	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
41	Sucker (unknown)	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
42	Sucker, Bridgelip	NA	Natural	Adult	Unknown	50	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
43	Walleye	NA	Natural	Adult	Unknown	300	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
44	Whitefish, Mountain	NA	Natural	Adult	Unknown	150	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

1				with fish			
				handling)			

Freshwater Location

Research Area: Pacific Ocean State: OR Sub Basin (4th Field HUC): Middle Columbia-Lake Wallula Stream Name: Snake River

Sale in Oregon of species taken: None Location Description: McNary Dam, Juvenile Bypass System, MCN

Take Information

L	ine Ver	Species	Listing Unit/Stock	Production /Origin	Life Stage	Sex	Expected Take	Indirect Mort	Take Action	Observe /Collect Method	Procedure	Run	Transport Record	Begin Date	End Date
1		Salmon, Chinook	Snake River spring/summer-run (NMFS Threatened)	Natural	Juvenile	Male and Female	1100		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
2		Salmon, Chinook	Snake River	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	7771	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring/Summer	N/A	1/26/2017	12/31/2017
3		Salmon, Chinook	Snake River	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
4		Steelhead	Snake River Basin (NMFS Threatened)	Natural	Juvenile	Male and Female	1000		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017

5	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
6	Steelhead	Snake River Basin (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	1000	20	FISH	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
7	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
8	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
9	Salmon, Chinook	Snake River fall-run (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
10	Salmon, sockeye	Snake River (NMFS Endangered)	Natural	Juvenile	Male and Female	500	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

										with fish handling)					
11	Salm Chin	non, nook	Upper Columbia River spring-run (NMFS Endangered)	Natural	Juvenile	Male and Female	3320	66	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
12	Steel	elhead	Upper Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
13	Steel	elhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
14	Steel	elhead	Upper Columbia River (NMFS Threatened)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	3000	60	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017
15	Steel	elhead	Middle Columbia River (NMFS Threatened)	Natural	Juvenile	Male and Female	1000	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Summer	N/A	1/26/2017	12/31/2017

16		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Intact Adipose	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
17		Salmon, Chinook	Upper Columbia River spring-run (NMFS Endangered)	Listed Hatchery Adipose Clip	Juvenile	Male and Female	2000	40	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Spring	N/A	1/26/2017	12/31/2017
18		Steelhead	Unspecified	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017
19		Steelhead	Unspecified	Unlisted Hatchery	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017
20	I	Bullhead (unknown)	NA	Natural	Adult	Unknown	20	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
21		Bass, Largemouth	NA	Natural	Adult	Unknown	10		Capture/Handle/Release	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

										with fish handling)					
2	22	Bass, Smallmouth	NA	Natural	Adult	Unknown	350		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	23	Catfish, Channel	NA	Natural	Adult	Unknown	20	5	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	24	Chub, Chiselmouth	NA	Natural	Adult	Unknown	5		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	25	Carp, Common	NA	Natural	Adult	Unknown	10		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	26	Salmon, Chinook	Unspecified	Unlisted Hatchery	Subadult	Unknown	10	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017

27	7	Salmon, Chinook	Unspecified	Natural	Subadult	Unknown	5		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	Unknown	N/A	1/26/2017	12/31/2017
28	3	Kokanee	NA	Natural	Adult	Unknown	10	()	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
29)	Dace, Longnose	NA	Natural	Adult	Unknown	100		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
30)	Whitefish, Mountain	NA	Natural	Adult	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
31		Perch, Yellow	NA	Natural	Adult	Unknown	50		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
32	2	Peamouth	NA	Natural	Adult	Unknown	1000		Capture/Handle/Release	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

									with fish handling)					
33	Shiner, Redside	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
34	Shad, American	NA	Natural	Juvenile	Unknown	400000	6000	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
35	Stickleback, Threespine	NA	Natural	Adult	Unknown	300	20	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
36	Pikeminnow, Northern	NA	Natural	Adult	Unknown	5	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
37	Sandroller	NA	Natural	Adult	Unknown	5	0	Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

38	Sucker (unknown)	NA	Natural	Adult	Unknown	15	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
39	Lamprey, Pacific	NA	Natural	Juvenile	Unknown	5000	100	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
40	Lamprey, Pacific	NA	Natural	Larvae	Unknown	100	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
41	Lamprey, Pacific	NA	Natural	Adult	Unknown	50	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
42	Sculpin (unknown)	NA	Natural	Adult	Unknown	10	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
43	Walleye	NA	Natural	Adult	Unknown	20		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

										with fish handling)					
4	14	Bluegill	NA	Natural	Adult	Unknown	200		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	15	Kilifish, Banded	NA	Natural	Adult	Unknown	25	1	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	16	Shad, American	NA	Natural	Adult	Unknown	10		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
2	17	Unknown fish	NA	Natural	Unknown	Unknown	20	0	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
	18	Crappie, Black	NA	Natural	Unknown	Unknown	20		Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)		N/A	N/A	1/26/2017	12/31/2017

49	9	- 1	Mixed invertebrate	NA	N/A	Adult	Unknown	200	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017
50	0		Walleye	NA	Natural	Unknown	Unknown	10	Capture/Handle/Release Fish	Dam bypass, gatewell, orifice, etc. (only if associated with fish handling)	Anesthetize	N/A	N/A	1/26/2017	12/31/2017

Project Contacts

Primary Contact: Margaret Filardo

Principal Investigator: Michele DeHart

Other Personnel:

Name	Role(s)			
Rick Martinson	Co-Investigator			
Charles F. Morrill	Co-Investigator			

Collector Comments: SMP crews overseen by PSMFC, WDFW, ODFW and IDFG.

Attachments

Application Archive - P21103T14Issued.pdf (Added Jan 26, 2017)

Certification of Identity - P21103T112017permitsignature.pdf (Added Jan 4, 2017)

Contact - Charles F. Morrill C197T5CMorrill_CV.doc (Added Oct 17, 2008)

Contact - Michele DeHart C2373T5Michele DeHar cv 2015.docx (Added Jan 20, 2015)

Contact - Rick Martinson C19383T5ResumeforRick2015.doc (Added Jan 8, 2016)

Project Description - P20128T109 16 FPC-47Finaldeterminationoftakeletterissued2216.pdf (Added Dec 21, 2016)

Status

Application Status: Application Complete Date Submitted: January 10, 2017 February 16, 2017 **Last Date Archived:**

• Determination of Take Authorization under a Biological Opinion

Current Status: Issued Status Date: January 26, 2017

Expire Date: December 31, 2017

Analyst Information:

Phone: (503)231-2238 Blane Bellerud

Email: blane.bellerud@noaa.gov

• Oregon Scientific Taking Permit for Fish and Marine and Freshwater

Invertebrates

Current Status: Issued Status Date: January 26, 2017

Date State Approved: February 16, 2017

Expire Date: December 31, 2017

Analyst Information:

Blane Bellerud

Phone: (503)231-2238 Email: blane.bellerud@noaa.gov

Modification Requests

This section is currently empty.

Reports

Report Required

_	,,										
]	Nbr	Report Type	Report	Period	Date Due	Status	Date Received				
			Start Date	End Date							
Γ	1	Annual	01/01/2017	12/31/2017	01/30/2018	N/A					