

2026 ANNUAL MANAGEMENT PLAN

Port Armstrong Hatchery

Armstrong-Keta, Inc.

This Annual Management Plan (AMP) is prepared to fulfill the requirements of 5 AAC 40.840. This plan is prepared to guide hatchery operations in accordance with the hatchery permit. The plan must be developed with consideration of the hatchery's production cycle and must organize and guide the hatchery's operations regarding production goals, broodstock management, and harvest management of hatchery-produced salmon. The production cycle begins with adult returns, which lead to egg takes and end with fish releases. Action may be taken outside of the management plan if allowed under the hatchery permit or modified by emergency order. In-season assessments and project alterations by Armstrong-Keta, Inc. (AKI) or Alaska Department of Fish and Game (ADF&G or department) may result in changes to this AMP in order to reach or maintain program objectives. AKI will notify the ADF&G private nonprofit (PNP) hatchery program coordinator in a timely manner of any departure from the AMP. The ADF&G PNP coordinator will advise as to whether an amendment, exception report, or other action is warranted. No variation or deviation will be implemented until an AMP amendment has been approved or waived by both the department and AKI. This policy applies to all hatchery operations covered under the AMP.

1.0 Executive Summary

1.1 *Background*

The Port Armstrong Hatchery (PAH) is a PNP facility owned and operated by AKI. The hatchery is located at the outlet of Jetty Lake, in Port Armstrong, near the southeastern tip of Baranof Island along Chatham Strait (Figure 1). Fed by water from two lakes perched 285 feet above the facility, up to 30 cfs of water is seasonally available for hatchery use and hydropower generation. The hatchery facilities include a primary incubation building, a Chinook and coho salmon building, ten freshwater raceways, and three saltwater net pen complexes. The hatchery operates 365 days per year.

PAH is currently producing pink, chum, and coho salmon, and is also permitted to produce Chinook salmon. Because of the timing overlap of its Chinook and chum runs, AKI has been focusing on coho instead of Chinook salmon. Currently, PAH-permitted production is released at or near Port Armstrong.

1.2 *New this Year (production, harvest management, culture techniques, etc.)*

Pending Permit Alteration Request (PAR) approval, AKI plans to increase coho egg take by 2 million eggs (from 6 million eggs to 8 million).

1.3 *New Permits or Permit Amendments*

AKI submitted a PAR to increase our permitted green coho egg capacity to allow for an additional two million eggs for a new total of eight million eggs. If approved, PAH intends to take up to eight million coho salmon eggs.

AKI applied for a new FTP for backup pink salmon egg take at Lovers Cove Creek, one of the original pink salmon donor stocks for PAH.

1.4 *Expected Returns*

Species, Run	Release Location	Total Return	Common Property Harvest	Return to Hatchery	Broodstock Needed	Available for Cost Recovery
Pink salmon, BY24	Port Armstrong	387,412	154,965	232,447	300,000	0
Coho salmon, BY23	Port Armstrong	139,456	69,728	69,728	8,000	61,728
Chum salmon, BY20-23	Port Armstrong	201,718	20,172	181,546	20,000	161,546

Additional details on adult salmon returns from PAH projects can be found in Appendix Table 1.

1.5 *Production Summary*

Program Name	Brood Year	Planned Release Date	Number to Release	Life Stage	Type of Mark, Percent or Number Marked
Armstrong pink salmon; Larges	2025	May 15, 2026	21 million	fed fry	TM, 100% 3H
Armstrong pink salmon; smalls	2025	May 10, 2026	21 million	fed fry	TM, 100% 3H4
Armstrong coho salmon	2024	May 20, 2026	4.6 million	smolt	CWT, 2.2%
Armstrong chum salmon; larges	2025	May 10, 2026	3.6 million	fed fry	TM, 100% 3,2,2H
Armstrong chum salmon; smalls	2025	May 10, 2026	12 million	fed fry	TM, 100% 5H4

1.6 *Egg Takes*

In 2026, the egg-take goal at PAH will be 105 million pink salmon eggs; 20 million chum salmon eggs; six (or eight) million coho salmon eggs.

1.7 *Current Permitting*

The permitted capacity of PAH is 105 million pink salmon eggs, 60 million chum salmon eggs, and six (or hopefully eight) million combined Chinook and coho salmon eggs with no more than two million being Chinook salmon eggs.

2.0 Late Summer Pink Salmon Production

2.1 Program Details

Since 1983, PAH has been producing pink salmon. In previous years, PAH strived to annually release 97 million, 0.5-gram to 1.2-gram, otolith-marked pink salmon fry. Primarily due to environmental conditions we have not achieved our pink egg take goal for several years now.. With the change in production goals for 2023, PAH's pink egg take goal for 2026 is the full permitted 105 million eggs. The purpose of the program is to provide pink salmon to common property fisheries in lower Chatham Strait, as well as provide sufficient pink salmon returns to the hatchery to meet PAH cost-recovery and broodstock requirements.

Average marine survival of PAH pink salmon has been approximately 2.0%, with a high of 6.9% in return year 1990 and a low of 0.12% in return year 2008 (Table 2), with relatively depressed average returns during the past decade. In 2015, PAH began investigating the effects of release location on marine survival by towing a cohort of differentially marked pink salmon into Chatham Strait for release. No pink salmon will be vessel-transported for release this year.

Changes in fishing effort, opportunity for common property harvest in District 9, and the department's understanding of PAH pink salmon contribution to fisheries outside of District 9 warrant further investigation into updating contribution to fisheries.

2.2 Egg Takes

Program Name	Ancestral Stock(s)	Egg-Take Site & Stat Area	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
Armstrong pink salmon	Sashin Creek	Port Armstrong Hatchery 109-10	primary	105,000,000	105,000,000

2.3 Broodstock Capture Method

Pink salmon returning to the hatchery are an enhanced run. Sex ratios are sampled during the harvest to monitor run timing. Broodstock mature in the inner bay over the course of the run. In early September, when broodstock have sufficiently matured, two fish ladders are opened and adults are recruited into raceways. An electro-anesthesia unit attached to the raceways is used during egg take.

2.4 Spawning

Approximately 300,000 pink salmon will be required for broodstock. Spawning takes place on a covered deck adjacent to the broodstock raceways. After being stunned with an electro-anesthesia unit, males and females are sorted and their gametes are collected. The eggs are transported by hand cart to the incubation building, where fertilization and rinsing takes place. The fertilized eggs are loaded into R-48 bulk incubators for incubation to the eyed stage.

2.5 Egg-take Schedule

Egg take typically begins around September 10 and lasts for two to three weeks but may be extended due to run timing and pace of recruitment to the fish ladder. Egg take should approximate the normal run curve since broodstock will be allowed to accumulate at the mouth of the creek proportionally during the course of the run. Depending on the number of ripe females and fecundity, between five and 10 million eggs can be taken in a day.

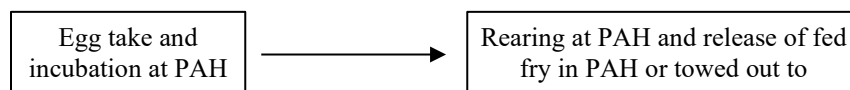
2.6 Carcass Disposal

The majority of carcasses are expected to be given away or sold to processors. Those carcasses not sold are collected daily in a small barge. Carcasses may also be given away and/or sold as bait. All remaining carcasses are driven approximately one mile offshore and discarded in Chatham Strait at a DEC-approved carcass disposal area.

2.7 Planned Releases this Calendar Year of Previous Brood Years' Production

Program Name	Brood Year	Planned Release Date	Number to Release	Life Stage	Type of Mark, Percent or Number Marked
Armstrong pink salmon; larges	2025	May 15, 2026	21 million	fed fry	TM, 100% 3H
Armstrong pink salmon; inside Port Armstrong	2025	May 10, 2026	21 million	fed fry	TM, 100% 3H4
Total			42 million		

2.8 Operational Diagram



2.9 Fish Transport Permits

FTP #	Egg Take, Transport or Release	Transport From & To	Maximal # & Life Stage	Expires
25J-1001	egg take & release	PAH to PAH	105 million eggs	5/14/2035
21J-1013	transport & release	PAH to Port Herbert	55 million eggs	3/31/2031
Pending ^a	egg take & transport	Sashin Creek to PAH	105 million eggs	N/A

^a Expired. Applications for backup egg take from the original donor streams (Sashin Creek and Lovers Cove) are in review.

Egg take at Sashin Creek under an FTP cannot commence until the ADF&G Division of Commercial Fisheries area management biologist has authorized it for that year. The escapement target for Sashin Creek is a peak aerial survey count of between 20,000 and 40,000 pink salmon. This includes fish above and below the weir site. NMFS has reduced resources for operating the Sashin Creek weir. If the weir is operating, the weir may be installed once a 20,000 pink salmon peak aerial survey count has been made. No hatchery broodstock may be collected until an

estimated 20,000 fish are above the weir. Once 20,000 fish are estimated above the weir, 20% of the daily return may be collected for hatchery broodstock until an estimated 50,000 fish are above the weir. Once 50,000 fish are estimated above the weir, 50% of the daily return may be collected for hatchery broodstock until an estimated 100,000 fish are above the weir. Once 100,000 fish are estimated above the weir, 80% of the daily return may be collected for hatchery broodstock. Conditions for egg take at Sashin Creek will be reconsidered during an early review of FTP 15J-1015.

3.0 Fall Coho Salmon

3.1 Program Details

The purpose of the program is to provide coho salmon to common property fisheries in lower Chatham Strait and outer Baranof Island, as well as provide a sufficient coho salmon return to the hatchery to meet PAH cost recovery and broodstock requirements.

In 1988, PAH began its coho salmon program with broodstock taken from Blanchard Lake of Deep Cove ancestral stock. In 1989 and 1990, broodstock was taken from NSRAA's Mist Cove return site, of Sashin Creek ancestral stock. In 2005, the permitted capacity of PAH coho salmon increased from two million to three million eggs. In 2007, the permitted capacity increased to a possible five million coho salmon eggs, if no Chinook salmon eggs are collected (permitted capacity is five million combined Chinook and coho salmon eggs with no more than two million being Chinook salmon eggs). In 2022, the permitted capacity for coho/Chinook eggs increased to six million, with no more than two million being Chinook. Coded wire tag (CWT) recoveries indicate that an average of approximately 50% of the total PAH return contributes to the troll fishery. Overall marine survivals for brood year (BY) 88 through BY22 releases average 6.6% (Table 3). The highest marine survival was 23.2% (BY99) and the lowest was 1.5% (BY02). PAH strives to annually release at least 4.8 million, 20 to 30-gram coho salmon smolt, maintain a green egg to smolt survival rate over 80%, maintain marine survivals comparable to, or exceeding, those experienced at Hidden Falls Hatchery (HFH) and NSRAA's release site Mist Cove, and maintain a fishery contribution rate of 50% or higher. Bacterial kidney disease (BKD) is managed by strict family tracking with culling of positive families prior to hatching, isolation between brood years and stocks, and early diagnosis and possible treatment. Fish may be fed Aqua 100 at fry stage as a BKD preventative.

Starting with BY19, coho salmon will be 100% otolith thermal-marked. We will differentially tag any distinct rearing or release groups with coded-wire tags.

In 2025, approximately 107,487 BY24 coho salmon smolt were coded wire tagged. These tags are to be recovered by AKI at the rack and by ADF&G during sampling of the commercial and sport fisheries.

3.2 *Egg Takes*

Program Name	Ancestral Stock(s)	Egg-Take Site & Stat Area	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
Armstrong coho salmon	Deep Cove/Sashin Creek	Port Armstrong Hatchery	primary	6,000,000 ^a	6,000,000 ^a
Armstrong coho salmon	Deep Cove/Sashin Creek	Hidden Falls Hatchery	alternate	0	3,000,000
Species Total				6,000,000 ^a	6,000,000 ^a

^a Six million combined Chinook and coho salmon eggs, with no more than two million being Chinook salmon eggs. Hoping to be permitted and take 8 million eggs.

3.3 *Broodstock Capture Method*

Coho salmon returning to the hatchery are from an enhanced run. In October, two fish ladders are opened and adult coho salmon are recruited into several holding raceways. Males and females are monitored for the next several weeks for ripeness.

3.4 *Spawning*

Approximately 8,000 adults are required for broodstock. Spawning takes place on a covered deck adjacent to the broodstock raceways. Fish are checked for ripeness and then ripe fish are quickly killed by hand. Then gametes are collected and transported to the coho and Chinook salmon incubation building. Initial incubation takes place in Heath tray incubators and family tracking boxes. Iodophor is used to disinfect eggs. Eggs are family-tracked and are culled from parents identified to be BKD-positive.

3.5 *Egg-take Schedule*

Egg take usually occurs between late October and early November, over a two-week period, as females ripen. Eggs will be taken in lots of approximately 500,000, or greater, until the egg-take goal has been reached. In the event that sufficient broodstock is not available at PAH, additional eggs may be taken at HFH.

3.6 *Carcass Disposal*

Carcasses are sold or given away to processors when possible. Carcasses that are not sold are collected in a small barge and made available to local residents or fishermen for bait. Any remaining carcasses are disposed of in Chatham Strait, approximately one mile offshore at a DEC-approved carcass disposal area.

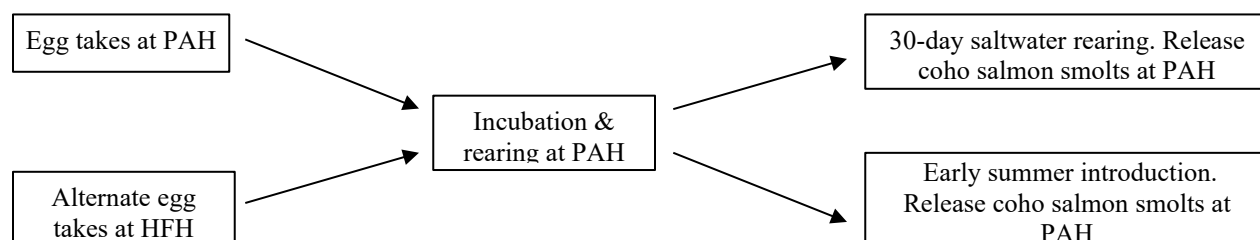
3.7 *Planned Releases this Calendar Year of Previous Brood Years' Production*

Program Name	Brood Year	Release Date	Number to Release	Life Stage	Type of Mark & Number Marked
Armstrong coho salmon	2024	5/20/2026	4.6 million	smolt	CWT, 107,000

3.8 Previous Brood Years that will Remain in Culture during the Entire Calendar Year

Program Name	Brood Year	Number Live	Life Stage	Type of Mark & Number Marked	Number to Release & Date
Armstrong coho salmon	2025	4.49 million	fry	CWT, 100,000 & Otolith, 100%	4.2 million, May 2027

3.9 Operational Diagram



3.10 Fish Transport Permits

FTP #	Stock	Egg take, Transport, or Release	Transportation From & To	Maximal # & Life Stage	Expires
98J-1010	Sashin Creek	Egg take & release	PAH to PAH	6,000,000 eggs ^a	8/31/28
93J-1036	Sashin Creek	Egg take, transport & release	HFH to PAH	3,000,000 eggs ^a	8/31/2035
17J-1027	Deep Cove	Egg take & release	PAH to PAH	6,000,000 eggs ^a	8/31/2028
17J-1028	Deep Cove	Egg take, transport & release	HFH to PAH	3,000,000 eggs ^a	8/31/2035

^a Total not to exceed six million eggs when combined with Chinook salmon eggs.

4.0 Summer Chum Salmon

4.1 Program Details

In 2003, PAH began its summer chum salmon program utilizing the enhanced-return chum salmon stock from Gunnuk Creek Hatchery (GCH) and HFH. The purpose of the program is to establish a chum salmon return at PAH that will provide opportunities for common property harvest of chum salmon in Lower Chatham Strait, as well as broodstock and cost recovery fish for PAH. Since 2009, a full complement of chum salmon year-classes has returned to PAH. It is anticipated that all future egg-take goals will be achieved from returns to PAH. In 2015, permitted chum salmon production at PAH increased from 30 million to 60 million green eggs, and a permitted remote release site was added at Port Lucy (Figure 3). The eventual production goal has been to annually release over 55 million two gram or larger thermal marked chum salmon fry split between both Port Armstrong and from Port Lucy, once the program is at full production, but poor returns over the past decade have prompted AKI to change focus to the pink and coho programs in 2022. The 2026 goal is to take 20 million chum eggs. Of these fish five million will be advanced and hopefully released at 6 grams and the other 15 million released at 2.2 grams. At release time we are hoping to tow out fish to Chatham Strait.

4.2 *Egg Takes*

Program Name	Ancestral stock(s)	Egg-Take Site	Primary or Alternate Source?	Current Year Egg Goal	Permitted Maximum
Armstrong chum salmon	Kadashan	PAH	primary	20,000,000	60,000,000
Armstrong chum salmon	Kadashan	HFH	alternate	0	30,000,000
Species/Run Totals				20,000,000	60,000,000

4.3 *Broodstock Capture Method*

Returning chum salmon are from an enhanced run. Sex ratios will be sampled during the harvest to monitor run timing. In late July, when broodstock have sufficiently matured, three fish ladders are opened and adults recruit into raceways. An electro-anesthesia unit, attached to the raceways, is used during egg take.

4.4 *Spawning*

Approximately 20,000 chum salmon will be required for broodstock. Additional broodstock may be required if eggs are taken for HFH. Spawning takes place on a covered deck adjacent to the brood raceways. After being stunned with an electro-anesthesia unit, males and females are sorted and their gametes are collected. The eggs are transported by handcart to the incubation building, where fertilization and rinsing takes place. The fertilized eggs are loaded into R48 bulk incubators for incubation to the eyed stage.

4.5 *Egg-take Schedule*

Egg take generally begins around mid-July, and lasts for one to two weeks; however, it may be extended depending on run timing and pace of recruitment into the fish ladder. Between three and six million eggs can be taken in a day, depending on the number of ripe females available and their fecundities.

4.6 *Carcass Disposal*

The majority of carcasses will be sold to processors. Those carcasses not sold are collected daily in a small barge. Carcasses may also be given away and/or sold as bait. All remaining carcasses are driven approximately one mile offshore and discarded in Chatham Strait at a DEC-approved carcass disposal area.

4.7 *Planned Releases this Calendar Year of Previous Brood Years' Production*

Program Name	Brood Year	Release Date	Number to Release	Life Stage	Type of Mark & % Marked
Armstrong chum salmon	BY25	5/15/2026	16 million	fed fry	TM, 100%

4.8 *Operational Diagram*

Egg take, incubation, rearing & release at PAH or release in Chatham Strait

4.9 Fish Transport Permits

FTP #	Egg Take, Transport, or Release	Transport From & To	Maximal # & Life Stage	Expires
26J-1001	egg take & release	PAH to PAH	60,000,000 eggs	12/31/2036
19J-1012	transport & release	PAH to offshore of PAH ^a	20,000,000 fed fry	06/01/2027
23J-1008	transport & release	HFH to PAH	30,000,000 eggs	11/1/2042

^a Vessel-transport release to be no more than 7.5 miles south and five miles east of PAH.

5.0 Evaluation

Coded wire tag and otolith sampling allows for apportioning returns to brood year, rearing strategy, and release strategy. AKI obtains CWT and otolith samples from three locations: common property commercial harvest, cost recovery harvest, and rack returns. AKI samples the rack and typically cost recovery harvest. Typically, other hatchery operators and ADF&G sample chum and coho salmon fisheries for CWTs and otoliths that include PAH returns. AKI strives to sample otoliths from pink salmon fisheries nearby to the hatchery, for example in District 9, when they occur. Our goal is for sampling to be representative of the return.

PAH's coho salmon contributions to common property fisheries are estimated by CWT recoveries, with sampling by AKI, ADF&G, and others. AKI's contribution to pink salmon common property fisheries will be estimated with the best available data, including otolith samples obtained by AKI from District 9 and possibly other areas. AKI's contribution to chum salmon common property fisheries will be estimated with the best available data, including otolith mark recoveries from NSRAA, SSRAA, and DIPAC's fishery evaluation programs.

AKI samples CWTs (coho salmon) and otoliths (pink and chum salmon) from cost recovery harvests and from the rack in years where there are two or more rearing and/or release groups (i.e., when fish are released in Chatham Strait or when coho are early-saltwater reared, at minimum).

6.0 Harvest Management

6.1 Special Harvest Areas

Described in **5 AAC 40.081 District 9: Port Armstrong Special Harvest Area.**

The AKI Special Harvest Area (SHA) for Chinook salmon is defined in regulation as the waters of Port Armstrong west of 134°39.47' W. longitude and is open for harvest by the hatchery permit holder beginning April 15th. The SHA for chum, pink and coho salmon includes the waters of Port Armstrong Bay enclosed by a line from Point Eliza at 56°17.73' N. latitude, 134°38.75' W. longitude to a point on the Baranof Island shoreline at 56°17.98' N. latitude, 134°38.35' W. longitude (Figure 1) and is open to harvest to the hatchery permit holder from June 15 through October 31. This area will be closed to common property commercial fishing by regulation from July 31 through September 30, unless opened by emergency order (EO) to harvest salmon surplus to cost recovery and broodstock needs, or for continued trolling by request of PAH.

Sport fishing will be open in the SHA. Sport fisheries will be managed by regional sport fishing regulations in effect for the Port Armstrong SHA. If necessary to protect broodstock, sport fishing may be closed by EO.

6.2 *Projected Return this Year*

Species, Run	Program Name	Projected Common Property Harvest	Return to Hatchery ¹	Total Projected Return & Current Year
Pink salmon BY 24	Port Armstrong	154,965	232,447	387,412
Coho salmon BY 23	Port Armstrong	69,728	69,728	139,456
Chum salmon BY 20-23	Port Armstrong	20,172	181,546	201,718
Chinook salmon	Port Armstrong	0	0	0

¹ Includes broodstock, cost recovery, escapement, etc.

6.3 *Common Property Fisheries Management*

Commercial Fisheries

Chum salmon

In 2026, PAH is expecting approximately 201,718 adult chum salmon to return to the hatchery at 0.75% ocean survival. The ancestral stock is HFH chum salmon, which return in July. If PAH chum salmon return through lower Chatham Strait, very few will likely be harvested in traditional purse seine fisheries, because lower Chatham Strait purse seine fisheries do not occur until August. Conversely, if PAH chum salmon enter inside waters through Cross Sound, harvest would be expected in traditional seine fisheries in northern Chatham and Icy Straits and the Hidden Falls THA. All chum salmon returning to the SHA in excess of broodstock requirements will be harvested for cost recovery by PAH. Common property openings targeting PAH chum salmon are not anticipated in the SHA; however, the outer bay portion of the SHA may be kept open for troll access when the inner bay is closed. Though unlikely, common property openings may be necessary to harvest surplus fish in the SHA if cost-recovery harvesting is overwhelmed. PAH will maintain close contact with the Sitka Area ADF&G management staff throughout the return so the department can respond to unharvested surplus fish in a timely manner, should the need arise. PAH may request the outer bay be closed if broodstock collection or cost recovery falls below projection.

Pink salmon

In 2026, AKI is predicting a return to Port Armstrong of approximately 232,447 adult pink salmon at 1.0% ocean survival. All pink salmon returning to the SHA in excess of broodstock requirements will be harvested by PAH for cost recovery. No common property openings targeting PAH pink salmon are anticipated in the SHA. Though unlikely, common property openings may be necessary to harvest surplus fish in the SHA if cost-recovery harvesting is overwhelmed. PAH will maintain close contact with the Sitka Area ADF&G management staff throughout the return so the department can respond to unharvested surplus in a timely manner, should the need arise.

Wild stock run timing in the most southerly portions of sections 9-A and 9-B overlap with the run timing of returning PAH pink salmon; therefore, a significant interception of pink salmon returning

to PAH would be expected in these fisheries should they occur during mid to late August. Opportunities for traditional purse seine fisheries in the southern portions of sections 9-A and 9-B will be determined in season based on observations and abundance of wild stock pink salmon in index streams. In Section 9-A, traditional purse seine fisheries occur north of Armstrong Point. In recent years, few if any common property openings for seining have occurred in Section 9-A.

Coho salmon

In 2026, PAH is expecting a total return of about 139,456 coho salmon. This estimate is based on an assumed 3.0% marine survival of a release of 4,648,524 brood-year 2023 smolts. Historically, about 50% of PAH coho salmon are harvested in common property fisheries, predominantly the traditional summer troll fishery in the outer coastal waters and lower Chatham Strait. That would lead to a return to the SHA in Port Armstrong of about 69,728 fish. All coho salmon returning to the SHA in excess of broodstock requirements will be harvested for cost recovery by PAH.

Sport Fisheries

Relatively small numbers of PAH salmon are caught in sport fisheries in Chatham Strait. Some targeted fishing may occur near Port Armstrong hatchery for coho salmon. Sport fisheries will be managed as described in regional codified regulations for the waters of Southeast Alaska. There are no special regulations for Port Armstrong. The department may use EO authority to address additional issues as they arise in season.

6.4 Cost Recovery Harvest Management

Species	CR goal
Chum salmon	All chum salmon in terminal area excess to broodstock needs
Pink salmon	All pink salmon in terminal area excess to broodstock needs.
Coho salmon	All coho salmon in terminal area excess to broodstock needs

Pink salmon run timing is monitored via daily sex ratio sampling during the harvest activities. Initially, the early portion of the pink salmon return is managed to provide the highest quality flesh condition, as the preponderance of these fish are excess males. As the run progresses and more females begin to account for a larger share of the return, management emphasis may turn to harvesting strategies aimed at maximum roe value, with flesh quality being secondary. As a general practice, PAH and its contracted processor's harvester will strive to keep the outer portion of the SHA fully harvested each day in order to minimize any potential straying. PAH anticipates no pink salmon to be available for cost recovery in 2026. Sufficient processing and tendering capabilities will be contracted to handle daily harvest amounts of nearly 800,000 lbs. if necessary.

In 2026, PAH anticipates a return of 161,546 chum salmon to be available for cost recovery in the SHA, not counting sea lion predation. Chum salmon should make a significant contribution to PAH's cost-recovery harvest. The chum salmon run generally ends before the first week of August, one to two weeks before the pink salmon harvest begins. PAH plans to contract a seiner to fish at least twice a week, to keep the SHA fully harvested.

Based on historical CWT and catch data, PAH anticipates that approximately 50% of returning coho salmon will be captured in the traditional summer troll fishery in the outer coastal waters of Baranof Island and lower Chatham Strait. Adult coho salmon not caught in common property fisheries typically begin arriving in the SHA in late August. The coho salmon return usually overlaps with the end of the pink salmon return. If requested by the processor, efforts may be made to harvest coho salmon and pink salmon separately. Coho salmon often completely segregate themselves from pink salmon within the inner bay. Definitive coho salmon harvest strategies may vary with changing conditions and different fish behavior.

7.0 APPROVAL

Recommendation for Approval: Port Armstrong Hatchery Annual Management Plan, 2026

Bryanna Torgeson, General Manager, Armstrong-Keta, Inc. 6/29/2026

Troy Tydingco, Area Management Biologist, Division of Sport Fish 6/29/2026

Aaron Dupuis, Area Management Biologist, Division of Commercial Fisheries 6/30/2026

Judy Lum, Regional Supervisor, Division of Sport Fish 6/30/2026

Anne ReynoldsManney, Regional Supervisor, Division of Commercial Fisheries 6/2/2026

Lorna Wilson, PNP Coordinator, Division of Commercial Fisheries 6/30/2026

Approval:

The 2026 Port Armstrong Hatchery Annual Management Plan is hereby approved:

Jason Dye, Deputy Director, Division of Sport Fish 7/1/2026

Forrest Bowers, Acting Director, Division of Commercial Fisheries 7/1/2026

APPENDICES

Maps:

Figure 1. Location of Port Armstrong (SHA) in Southeast Alaska.

Historic production tables:

Table 1. Projected returns for the 2025 season.

Table 2. Pink salmon egg take, release, and survival data for Port Armstrong Hatchery.

Table 3. Coho salmon egg take, release, and survival data for Port Armstrong Hatchery.

Table 4. Chum salmon egg take, release, and survival data for Port Armstrong Hatchery.

Table 5. Production summary.

Figure 1.— Location of Port Armstrong SHA in Southeast Alaska

Port Armstrong SHA

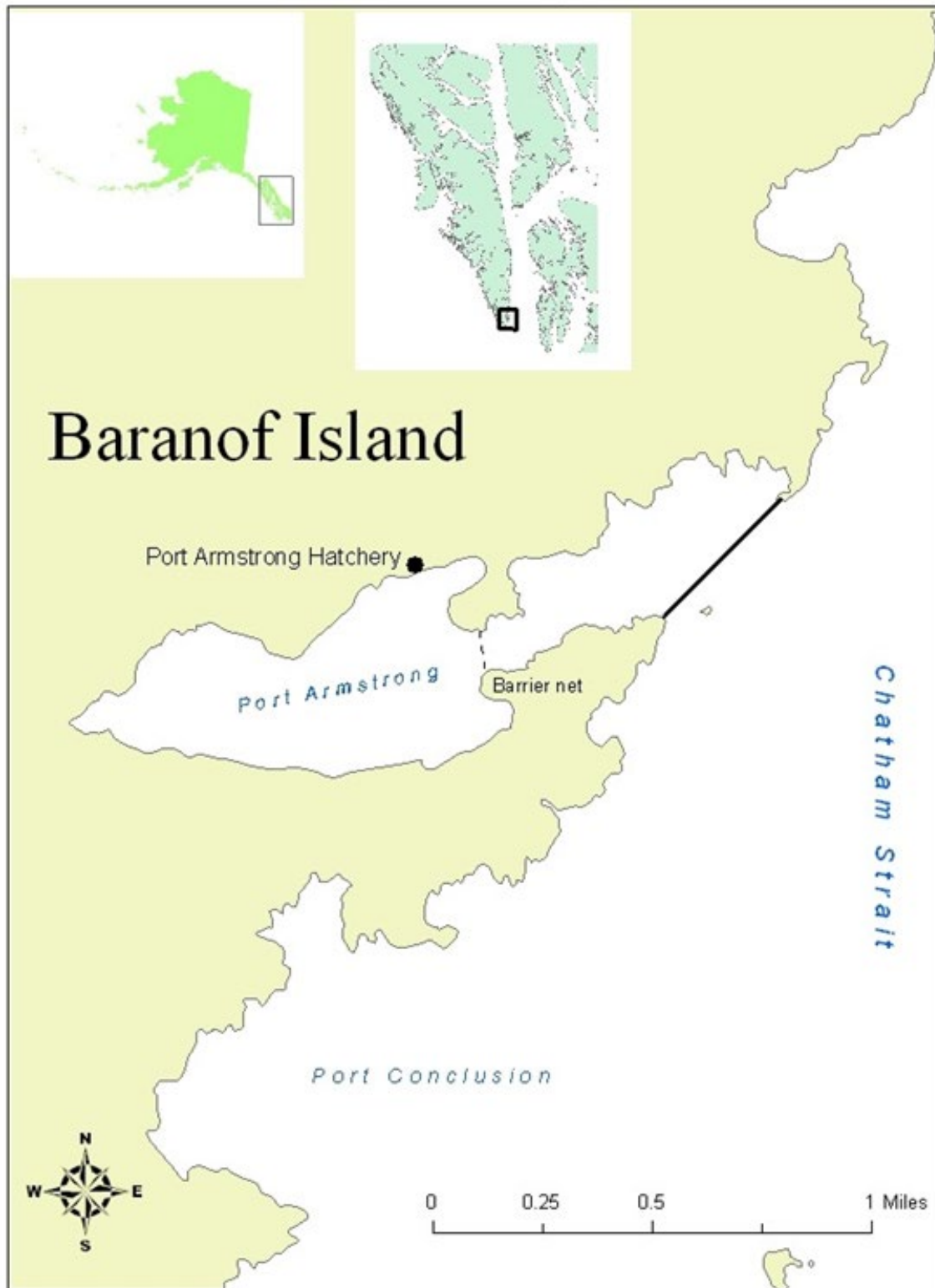


Table 1 - AKI projected returns for the 2026 season									
Species	Brood Year	Age	Fry/Smolt Released	Est. Marine Survival %	Percent at Age	Estimated Return	Estimated CP Harvest	Estimated Brood Stock	Estimated Cost Recovery
Pink	2024	2	38,741,230	1.00%	100%	387,412	154,965	300,000	0
							40%		
Coho	2023	3	4,648,524	3.00%	100%	139,456	69,728	8,000	61,728
							50%		
Chum	2023	3	18,491,348	0.75%	20%	27,737			
	2022	4	30,954,207	0.75%	70%	162,509			
	2021	5	15,817,167	0.75%	8%	9,490			
	2020	6	13,208,266	0.75%	2%	1,981			
	Total					201,717	20,172	20,000	161,545
							10%		

Table 2 – Pink salmon: egg take, release, and survival data for Port Armstrong Hatchery, 1983-2025

Brood Year	Origin	Eggs Taken	Fry Released	% Fry Survival	Size Gram	Release Dates	Adult	%	Total	%	Return Year
							Return To Hatchery	Return To Hatchery	Adult Return	Marine Survival	
1983	Sashin Creek	2,900,000									
1983	Lovers Cove	6,100,000	7,400,000	82%	0.23	1984/3/5 - 4/12	74,000	1.00%	148,000	2.00%	1985
1984	Sashin Creek	2,800,000									
1984	Lovers Cove	8,400,000	7,500,000	67%	0.3	1985/4/29 - 5/23	30,098	0.40%	60,196	0.80%	1986
1985	PAH	13,630,000	9,676,000	71%	0.4	1986/5/1 - 5/7	275,976	2.85%	289,775	2.99%	1987
1986	PAH	14,520,000	12,350,000	85%	0.39	1987/4/15 - 4/25	24,061	0.19%	28,256	0.23%	1988
1987	PAH	20,940,000	19,370,000	93%	0.32	1988/4/18 - 4/24	75,066	0.39%	125,115	0.65%	1989
1988	PAH	17,150,000	16,040,000	94%	0.36	1989/4/24 - 4/29	903,378	5.63%	1,113,413	6.94%	1990
1989	PAH	24,000,000	22,420,000	93%	0.38	1990/4/28 - 5/1	1,097,622	4.90%	1,393,752	6.22%	1991
1990	PAH	53,710,000	50,116,000	93%	0.34	1991/5/5 - 5/15	2,041,595	4.07%	2,722,127	5.43%	1992
1991	PAH	41,849,000	39,616,000	95%	0.45	1992/5/2 - 5/6	358,967	0.91%	478,623	1.21%	1993
1992	PAH	58,108,000	51,189,000	88%	0.31	1993/4/27 - 5/5	1,260,758	2.46%	1,760,758	3.44%	1994
1993	PAH	58,668,000	43,000,000	73%	0.3	1994/4/26 - 5/4	843,954	1.96%	1,343,954	3.13%	1995
1994	PAH	59,416,000	53,839,000	91%	0.31	1995/4/24 - 5/3	1,266,381	2.35%	2,110,635	3.92%	1996
1995	PAH	81,360,000	72,480,000	91%	0.31	1996/4/27 - 5/7	1,246,342	1.72%	1,821,342	2.51%	1997
1996	PAH	91,286,000	81,012,000	89%	0.32	1997/4/25 - 5/10	1,426,978	1.76%	2,212,708	2.73%	1998
1997	PAH	80,071,739	75,776,850	95%	0.7	1998/3/31 - 4/27	3,522,588	4.65%	4,327,788	5.71%	1999
1998	PAH	86,619,007	73,269,304	85%	0.45	1999/4/26 - 6/7	204,618	0.28%	304,618	0.42%	2000
1999	PAH	89,082,366	85,638,750	96%	0.63	2000/4/24 - 5/8	1,362,561	1.59%	2,452,610	2.90%	2001
2000	PAH	52,992,615	52,343,525	96%	0.94	2001/4/20 - 6/4	1,104,959	2.10%	1,988,926	3.80%	2002
2001	PAH	78,906,537	72,663,780	92%	0.67	2002/5/1 - 6/12	598,569	0.82%	1,077,424	1.48%	2003
2002	PAH	90,366,055	83,470,980	92%	0.78	2003/4/24 - 5/29	1,184,027	1.42%	1,691,465	2.03%	2004
2003	PAH	89,675,516	83,835,050	94%	0.76	2004/4/21 - 6/2	1,015,299	1.21%	1,786,926	2.13%	2005
2004	PAH	88,040,126	80,110,972	91%	0.78	2005/4/28 - 5/31	356,371	0.44%	636,377	0.79%	2006
2005	PAH	87,610,268	78,172,288	89%	1.12	2006/5/27 - 6/1	672,207	0.86%	1,209,973	1.55%	2007
2006	PAH	85,617,687	78,211,021	91%	0.6	2007/6/2 - 6/7	52,113	0.07%	93,803	0.12%	2008
2007	PAH	64,478,274	61,734,194	96%	0.75	2008/5/20 - 5/28	793,488	1.29%	1,428,278	2.31%	2009
2008	PAH	23,204,712	21,438,507	92%	0.64	2009/5/6	759,488	3.54%	1,240,699	5.79%	2010
2009	PAH	59,858,384	53,677,075	89%	0.49	2010/4/29	658,638	1.23%	1,176,351	2.19%	2011
2010	PAH	85,090,195	75,506,078	89%	0.48	2011/5/3 - 5/7	163,538	0.22%	292,032	0.39%	2012
2011	PAH	85,870,462	82,734,292	96%	0.52	2012/5/1 - 5/2	1,086,035	1.31%	2,204,708	2.66%	2013
2012	PAH	53,598,205	52,120,334	97%	0.65	2013/4/25 - 5/4	310,959	0.60%	403,843	0.77%	2014
2013	PAH	87,840,626	79,659,097	91%	0.46	2014/4/18 - 5/7	451,741	0.51%	721,612	0.82%	2015
2014	PAH	93,185,785	87,664,878	94%	0.5 - 0.97	2015/4/20 - 5/6	151,347	0.17%	280,272	0.32%	2016
2015	PAH	103,883,660	97,116,922	94%	0.61 - 0.99	2016/4/13 - 4/19	758,455	0.78%	1,404,546	1.45%	2017
2016	PAH	55,134,038	52,820,574	96%	0.52 - 0.9	2019/4/28 - 5/14	194,535	0.37%	360,250	0.68%	2018
2017	PAH	82,198,745	77,904,453	95%	0.42 - 0.48	2018/4/30 - 5/8	212,640	0.27%	303,771	0.39%	2019
2018	PAH	40,206,672	36,787,073	91%	0.77 - 0.86	2019/5/5	802,469	2.18%	1,146,790	3.12%	2020
2019	PAH	41,737,626	38,930,384	93%	1.0 - 1.23	2020/4/28 - 5/12	170,226	0.44%	243,197	0.62%	2021
2020	PAH	64,671,802	60,706,053	94%	0.65 - 0.81	2021/5/12 - 5/17	286,118	0.47%	477,957	0.79%	2022
2021	PAH	65,248,359	56,941,710	87%	0.60 - 0.84	2022/5/23 - 5/24	712,526	1.25%	997,536	1.75%	2023
2022	PAH	53,604,539	47,739,634	89%	0.66 - 0.82	2023/5/22 - 5/24	181,379	0.38%	253,931	0.53%	2024
2023	PAH	46,066,531	39,914,863	87%	0.48 - 0.51	2024/5/16 - 5/21	408,673	1.02%	572,142	1.43%	2025
2024	PAH	43,665,818	38,741,230	89%	0.66 - 0.75	2025/5/25					2026
2025	PAH	47,712,386									2027

Table 3a - Coho salmon: egg take, release and survival data for Port Armstrong Hatchery, 1988–2010

Brood Year	Origin	Eggs Taken	Smolt Released	Smolt Survival	Size Gram	Release Dates	Return Age	Marine Survival	Adult Return	Return Year
1988	Blanchard Lake	140,000	121,730	86.95%	24.3	1990/5/16	2	2.0%	2,442	1990
	(Deep Cove)						3	22.3%	27,090	1991
1989	Deer Lake (Sashin)	280,000	206,724	73.83%	19.6	1991/5/25 - 5/26	2	0.2%	488	1991
							3	19.4%	40,140	1992
1990	Deer Lake (Sashin)	230,180	164,766	71.58%	18.5	1992/5/17 - 5/18	2	0.1%	100	1992
							3	7.0%	11,493	1993
1991	Deer Lake	613,504	81,673	13.31%	17.2	1993/5/23	2	0.0%	-	1993
	(Deep Cove) - Abnormally low fry survival due to pipeline failure.						3	4.7%	3,805	1994
1992	Deer Lake (Sashin)	893,000	828,199	92.74%	18.4	1994/5/20 - 5/30	2	0.0%	312	1994
							3	10.4%	86,244	1995
1993	PAH	663,000	457,281	68.97%	17.6	1995/5/28 - 5/29	2	0.0%	15	1995
	Hidden Falls	217,000	184,525	85.03%	15.5	1995/5/28	3	5.1%	32,443	1996
							4	0.0%	97	1997
1994	PAH	1,098,000	751,566	68.45%	20.8	1996/6/2	2	0.0%	-	1996
	Hidden Falls	703,333	633,203	90.03%	18.7	1996/5/31	3	5.5%	76,488	1997
1995	PAH	1,830,000	952,000	52.02%	19.7	1997/5/19 - 6/6	2	0.2%	1,500	1997
	199,800 sub quality SWOW smolt released not expected to survive post release.						3	3.6%	33,801	1998
1996	PAH	1,853,000	123,850	35.11%	21.4	1998/5/23	2	0.0%	-	1998
	1,500,300 unfed fry released. No marine survival expected.						3	16.4%	20,244	1999
1997	PAH	748,779	625,363	83.52%	22.6	1999/5/19 - 5/26	2	0.0%	-	1999
							3	3.1%	19,589	2000
1998	PAH	1,585,368	1,358,299	85.68%	22.9	2000/5/15 - 5/28	2	1.8%	25,000	2000
							3	15.0%	203,619	2001
1999	Hidden Falls	1,400,000	975,549	83.83%	24.2	2001/5/22 - 5/23	2	0.4%	3,690	2001
							3	23.2%	226,409	2002
2000	Hidden Falls	1,775,298	1,468,761	82.70%	21.5	2002/5/24 - 5/31	2	0.1%	700	2002
							3	4.5%	66,355	2003
2001	PAH	1,861,605	1,331,351	71.52%	22.2	2003/5/30	2	0.0%	-	2003
							3	2.6%	34,724	2004
2002	PAH	1,576,659	1,340,985	70.51%	27.3	2004/6/3 - 6/4	2	0.0%	-	2004
	Hidden Falls	325,171					3	1.5%	19,444	2005
2003	PAH	2,338,298	1,581,050	67.62%	26.7	2005/6/9	2	0.0%	-	2005
							3	2.3%	36,238	2006
2004	PAH	1,287,880	2,616,063	86.21%	19.3	2006/6/8	2	0.1%	1,666	2006
	Hidden Falls	1,746,625					3	5.6%	145,393	2007
2005	PAH	2,933,857	2,156,500	73.50%	20.7	2007/6/15	2	0.0%	751	2007
							3	2.7%	59,038	2008
2006	PAH	3,296,075	2,509,128	76.12%	18.9	2008/6/5	2	0.1%	2,572	2008
							3	4.5%	113,254	2009
2007	PAH	3,702,400	3,148,462	85.04%	15	2009/5/28	2	0.0%	217	2009
							3	3.9%	123,552	2010
2008	PAH	4,287,737	3,223,867	75.19%	16.5	2010/5/8 - 5/27	2	0.0%	1,031	2010
							3	4.6%	148,756	2011
2009	PAH	3,494,400	2,274,860	65.10%	19.5	2011/5/15 - 5/27	2	0.0%	695	2011
							3	2.6%	58,332	2,012
2010	PAH	2,421,000	2,380,474	85.28%	19.6	2012/5/18 - 5/28	2	0.0%	477	2012
							3	5.7%	135,869	2013

Table 3b - Coho salmon: egg take, release and survival data for Port Armstrong Hatchery, 2011–2025										
Brood Year	Origin	Eggs Taken	Smolt Released	Smolt Survival	Size Gram	Release Dates	Return Age	Marine Survival	Adult Return	Return Year
2006	PAH	3,296,075	2,509,128	76.12%	18.9	2008/6/5	2	0.1%	2,572	2008
							3	4.5%	113,254	2009
2007	PAH	3,702,400	3,148,462	85.04%	15	2009/5/28	2	0.0%	217	2009
							3	3.9%	123,552	2010
2008	PAH	4,287,737	3,223,867	75.19%	16.5	2010/5/8 - 2010/6/1	2	0.0%	1,031	2010
							3	4.6%	148,756	2011
2009	PAH	3,494,400	2,274,860	65.10%	19.5	2011/5/15	2	0.0%	695	2011
							3	2.6%	58,332	2,012
2010	PAH	2,421,000	2,380,474	85.28%	19.6	2012/5/18	2	0.0%	477	2012
							3	5.7%	135,869	2013
2011	PAH	2,499,209	2,243,392	89.76%	23.6	2013/5/19	2	0.0%	788	2013
							3	9.7%	250,555	2014
2012	PAH	3,010,994	2,466,514	81.90%	24.4	2014	2	0.2%	3,701	2014
							3	9.1%	223,802	2015
2013	PAH	2,358,046	1,944,904	82.50%	24.5	2015	2	1.1%	20,740	2015
							3	5.3%	103,141	2016
2014	PAH	2,911,992	2,192,592	75.30%	29-36	2016	2	1.0%	22,236	2016
							3	6.6%	191,736	2017
2015	PAH	2,886,214	2,061,012	71%	25-52	2017	2	0.6%	17,522	2017
							3	2.0%	56,880	2018
2016	PAH	5,023,610	4,006,231	80%	20-30	2018	2	0.1%	4,658	2018
	Annual report states all returns were BY2015						3	4.5%	179,165	2019
2017	PAH	6,438,400	3,732,285	58%	28-31	2019	2	0.5%	18,566	2019
							3	2.0%	75,163	2020
2018	PAH	4,828,800	3,652,153	76%	24-27	2020	2	0.2%	6,324	2020
							3	1.3%	48,618	2021
2019	PAH	4,828,400	3,892,791	81%	20-25	2021	2	0.2%	7,528	2021
							3	2.4%	92,197	2022
2020	PAH	4,828,800	3,673,263	76%	20-27	2022	2	0.3%	12,302	2022
							3	5.0%	182,717	2023
2021	PAH	5,004,000	3,011,644	60%	21.5	2023	2	0.3%	8,450	2023
							3	3.5%	104,301	2024
2022	PAH	5,803,708	3,985,845	69%	20	2024	2	0.1%	5,684	2024
							3	2.8%	113,377	2025
2023	PAH	5,754,043	4,648,524	81%	21	2025	2	0.0%	1,248	2025
							3			2026
2024	PAH	5,821,070				2026	2	0.0%		2026
							3			2027
2025	PAH	5,944,801				2027	2	0.0%		2027
							3			2028

Table 4a - Chum salmon: egg take, release, and survival data for Port Armstrong Hatchery, 1984–2005

Brood Year	Origin	Eggs Taken	Fry Released	% Fry Survival	Size Gram	Release Dates	Return Age	% Marine Survival	Adult Return	Return Year
1984	Security Bay	1,236,400	702,540	56.8%	0.8	1985/6/18	3	0.00%	-	1987
	Camden	703,000	223,000	31.7%	1.0	1985/6/6	4	0.01%	90	1988
		1,939,400	925,540	47.7%			5	0.00%	2	1989
BY84 TOTAL								0.01%	92	
1985	Security Bay	2,702,250	1,626,400	60.2%	0.84	1986/5/19	3	0.00%	27	1988
						1986/6/9	4	0.00%	46	1989
							5	0.00%	-	1990
BY85 TOTAL								0.00%	73	
1986	Security Bay	2,171,103	1,982,450	91.3%	1.05	1987/6/1	3	0.01%	128	1989
							4	0.02%	363	1990
							5	0.00%	-	1991
BY86 TOTAL								0.03%	491	
1987	Security Bay	1,506,500	1,287,060	85.4%	0.9	1988/4/24	3	0.07%	839	1990
							4	0.03%	396	1991
							5	0.00%	-	1992
BY87 TOTAL								0.10%	1,235	
1988	PAH	46,571	42,500	91.3%	0.67	1989/4/24	3	2.17%	923	1991
						1989/4/30	4	0.30%	126	1992
							5	0.00%	-	1993
BY88 TOTAL								2.47%	1,049	
1989	PAH	157,303	141,921	90.2%	0.56	1990/5/1	3	0.28%	400	1992
							4	0.00%	-	1993
							5	0.00%	-	1994
BY89 TOTAL								0.28%	400	
1990	PAH	855,167	794,673	92.9%	0.51	1991/5/5	3	0.00%	-	1993
						1991/5/15	4	0.00%	-	1994
							5	0.00%	-	1995
BY90 TOTAL								0.00%	-	
1991	PAH	444,453	423,000	95.2%	0.52	1992/5/4	3	0.00%	-	1994
							4	0.00%	-	1995
							5	0.00%	-	1996
BY91 TOTAL								0.00%	-	
No eggs were taken from 1992-2002										
2003	Hidden Falls	10,000,826	9,306,909	93.1%	1.62	2004/5/30	3	0.06%	7,561	2006
	Gunnuk Creek	5,535,655	4,098,640	74.0%	1.99	2004/4/21	4	0.28%	37,471	2007
	TOTAL	15,536,481	13,405,549	86.3%	1.73		5	0.05%	7,098	2008
							6	0.01%	1,254	2009
BY03 TOTAL								0.40%	53,384	
2004	Hidden Falls	12,914,888	574,958	4.5%	2.19	2005/5/31	3	0.05%	287	2007
							4	0.14%	799	2008
							5	1.09%	6,266	2009
							6	0.00%	-	2010
BY04 TOTAL								1.28%	7,352	
2005	Hidden Falls	2,716,112	2,110,821	77.7%	2.93	2006/6/1	3	0.27%	10,294	2008
	Gunnuk Creek	1,911,488	1,770,390	92.6%	3.86	2006/5/15	4	2.91%	112,780	2009
	TOTAL	4,627,600	3,881,211	83.9%	3.35		5	0.21%	8,205	2010
							6	0.02%	719	2011
BY05 TOTAL								3.41%	131,998	

Table 4b - Chum salmon: egg take, release, and survival data for Port Armstrong Hatchery, 2006–2015										
Brood Year	Origin	Eggs Taken	Fry Released	% Fry Survival	Size Gram	Release Dates	Return Age	% Marine Survival	Adult Return	Return Year
2006	Hidden Falls	13,300,064	11,875,417	89.3%	1.59	2007/6/2	3	0.03%	5,012	2009
	PAH	5,049,447	4,654,882	92.2%	1.77	2007/6/7	4	0.18%	31,905	2010
	Gunnuk Creek	940,933	917,949	97.6%	3.27	2007/5/24	5	0.57%	100,239	2011
	TOTAL	19,290,444	17,448,248	90.5%			6	0.01%	2,476	2012
BY06 TOTAL								0.79%	139,632	
2007	PAH	15,348,631	13,786,610	89.8%	2.14	2008/5/28	3	0.24%	33,501	2010
							4	1.20%	166,072	2011
							5	28.00%	38,726	2012
							6	0.00%	587	2013
BY07 TOTAL								29.44%	238,886	
2008	PAH	13,104,587	12,417,244	94.8%	1.2	2009/5/7	3	0.06%	6,904	2011
							4	1.03%	128,379	2012
							5	0.31%	38,174	2013
							6	0.00%	363	2014
BY08 TOTAL								1.40%	173,820	
2009	PAH	30,019,963	27,296,476	90.9%	1.21	2010/4/27	3	0.03%	7,520	2012
							4	0.45%	128,029	2013
							5	0.13%	38,070	2014
							6	0.00%	762	2015
BY09 TOTAL								0.61%	174,381	
2010	PAH	30,479,861	28,444,881	93.3%	1.34	2011/5/7	3	0.01%	3,524	2013
							4	0.08%	23,930	2014
							5	0.08%	23,627	2015
							6	0.00%	505	2016
BY10 TOTAL								0.18%	51,586	
2011	PAH	30,139,827	26,459,338	87.8%	1.91	2012/5/1	3	0.04%	10,152	2014
						2012/5/4	4	0.19%	49,541	2015
							5	0.06%	15,154	2016
							6	0.02%	4,094	2017
BY11 TOTAL								0.30%	78,941	
2012	PAH	29,620,820	25,695,046	86.7%	1.78	2013/4/25	3	0.01%	2,286	2015
						2014/5/4	4	0.12%	31,824	2016
							5	0.48%	122,806	2017
							6	0.01%	1,777	2018
BY12 TOTAL								0.62%	158,693	
2013	PAH	30,174,044	25,028,988	82.9%	2.42	2014/4/30	3	0.01%	3,031	2016
							4	1.03%	257,892	2017
							5	0.21%	53,320	2018
							6	0.00%	526	2019
BY13 TOTAL								1.25%	314,769	
2014	PAH	24,773,774	22,817,058	92.1%	3.04	2015/4/11	3	0.11%	24,561	2017
							4	0.49%	111,971	2018
							5	0.10%	22,400	2019
							6	0.00%	301	2020
BY14 TOTAL								0.70%	158,932	
2015	PAH	40,601,877	34,944,513	86.1%	2.66	2016/3/23	3	0.03%	10,664	2018
						2016/4/10	4	0.44%	153,500	2019
							5	0.00%	1,204	2020
							6	0.00%	676	2021
BY15 TOTAL								0.48%	165,368	

Table 4c - Chum salmon: egg take, release, and survival data for Port Armstrong Hatchery, 2016–2025										
Brood Year	Origin	Eggs Taken	Fry Released	% Fry Survival	Size Gram	Release Dates	Return Age	% Marine Survival	Adult Return	Return Year
2016	PAH	28,179,519	24,802,314	88.0%	2.01	2017/5/5	3	0.04%	10,800	2019
							4	0.04%	10,539	2020
							5	0.01%	2,704	2021
							6	0.01%	2,683	2022
BY16 TOTAL								0.11%	26,726	
2017	PAH	40,153,986	34,876,032	86.9%	1.34	2018/5/4	3	0.01%	3,011	2020
							4	0.07%	23,659	2021
							5	0.03%	10,731	2022
							6	0.01%	3,602	2023
BY17 TOTAL								0.12%	41,003	
2018	PAH	57,029,720	37,185,005	65.2%	1.99-2.76	2019/5/8 - 5/19	3	0.02%	6,760	2021
							4	0.25%	93,912	2022
							5	0.04%	14,407	2023
							6	0.01%	3,776	2024
BY18 TOTAL								0.32%	118,855	
2019	PAH	57,293,201	51,663,892	90.2%	1.99-2.76	2020/5/6 - 5/12	3	0.05%	26,832	2022
	box releases		17,723,855		2.74	2020/5/8 - 5/12	4	0.24%	126,064	2023
	white box		33,940,037		1.71	2020/5/20	5	0.03%	15,106	2024
							6	0.01%	4957	2025
BY19 TOTAL								0.33%	168,002	
2020	PAH	14,915,004	13,208,266	88.6%		2021/5/11	3	0.27%	36,018	2023
	larges		10,145,670		4.01	2021/5/21	4	1.00%	132,175	2024
	smalls		3,062,596		2	2021/5/11	5	0.15%	19,828	2025
	all chums released inside bay						6	0.00%		2026
BY20 TOTAL								1.42%	188,021	
2021	PAH	17,285,000	15,817,167	91.5%			3	0.24%	37,764	2024
	Tow out		12,820,887		2.47	2022/5/22	4	1.10%	173,503	2025
	Vessel release		2,996,280		1.48	2022/5/24	5	0.00%		2026
							6	0.00%		2027
BY21 TOTAL								1.34%	211,267	
2022	PAH	34,385,386	30,954,207	90.0%			3	0.16%	49,572	2025
	Tow out		21,922,588		1.87	2023/5/24	4	0.00%		2026
	Vessel release		9,031,619		2.72	2023/5/25 - 5/27	5	0.00%		2027
							6	0.00%		2028
BY22 TOTAL								0.16%	49,572	
2023	PAH	20,055,918	18,491,348	92.2%			3	0.00%		2026
	larges		7,753,646		3.42	2024/4/26	4	0.00%		2027
	regulars		10,737,702		2.18	2024/4/30	5	0.00%		2028
							6	0.00%		2029
BY23 TOTAL								0.00%	-	
2024	PAH	19,813,400	14,765,352	74.5%			3	0.00%		2027
			3,972,444		7.73	2025/4/30	4	0.00%		2028
			10,792,908		1.7	2025/5/16	5	0.00%		2029
							6	0.00%		2030
BY24 TOTAL								0.00%	-	
2025	PAH	18,205,950		0.0%			3	0.00%		2028
							4	0.00%		2029
							5	0.00%		2030
							6	0.00%		2031
BY24 TOTAL								0.00%	-	

Table 5 – Production Summary

2026

Page 23 of 23