



ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM
GENERAL PERMIT – DRAFT
Permit Number: **AKG528000**
Seafood Processors Operating Onshore Facilities in Kodiak, Alaska

ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
Wastewater Discharge Authorization Program
555 Cordova Street; Anchorage, AK 99501

AUTHORIZATION TO DISCHARGE UNDER THE
ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM FOR
Seafood Processors Operating Onshore Facilities in Kodiak, Alaska

In compliance with the provisions of the Clean Water Act, 33 U.S.C. Part 1251 et seq. (hereafter, CWA or the Act), as amended by the Water Quality Act of 1987, P.L. 100-4, this permit is issued under provisions of Alaska Statutes 46.03, the Alaska Administrative Code as amended, and other applicable state laws and regulations.

The permittees, described in Part 1.1 of this Alaska Pollutant Discharge Elimination System (APDES) general permit, are authorized to discharge pollutants, as described in Part 1.2, to waters of the United States (U.S.) in accordance with effluent limitations, monitoring requirements, and other conditions set forth herein. A permittee is an owner or operator as defined in 18 AAC 83.

Discharge Name	Outfall Number
Seafood Processing (Butchering) Wastewater Outfall(s)	001 – To be Determined
Washed Mince / Washed Paste Wastewater Outfall(s)	002 - To be Determined
Seafood Processing By-Product Wastewater Outfall(s)	003 - To be Determined
Other Outfall(s)	004 - To be Determined

This permit shall become effective **DRAFT**

This permit and the authorization to discharge shall expire at midnight, **DRAFT**

Each permittee shall reapply for an authorization to discharge on or before **DRAFT**, 180 days prior to expiration, if the permittee intends to continue discharging at the facility beyond the term of this permit.

Signature

DRAFT

Date

Printed Name

Program Manager
Title

**A COPY OF THIS PERMIT SHALL BE KEPT AT THE FACILITY WHERE THE DISCHARGE OCCURS
AND BY THE RESPONSIBLE PARTY IN CHARGE OF PERMIT COMPLIANCE**

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SCHEDULE OF SUBMISSIONS

The Schedule of Submissions summarizes some of the required submissions and activities the permittee shall complete and submit to the Alaska Department of Environmental Conservation (DEC or the Department) Division of Water during the term of this permit. The permittee is responsible for all submissions and activities even if they are not summarized below.

Table 1: Schedule of Submissions

Permit Part	Submittal or Completion	Frequency	Due Date	Submit to ^a
Part 1.5.1	Notice of Intent (NOI) for a new operator	1/ permit cycle	90 days prior to commencement of discharge	Permitting
Part 1.5.3.1	Modified NOI	As Needed	Submit with the Annual Report	Permitting
Part 1.5.3.2, Part 1.5.3.3	Modified NOI	As Needed	30 days prior to specified processing and/or outfall changes	Permitting
Part 1.6.2.7.2	Mixing Zone Application	1 / permit cycle	Within 90 days of the permit effective date, if applicable	Permitting
Part 1.9.1.1	Application for Permit Reissuance	1/ permit cycle	180 days prior to the expiration date of the permit	Permitting
Part 2.1.3	Pre-installation Biological Survey	As Necessary	Prior to outfall installation or relocation	Permitting
Part 2.1.4.12.1	Discharge Monitoring Report (DMR)	Monthly	Must be submitted electronically through the NetDMR system, on or before the 28 th day of the following month	NetDMR
Part 2.6.3	Ambient Waterbody Monitoring Report	1 / permit cycle	180 days prior to the expiration date of the permit	Permitting
Part 2.7	Annual Report	Yearly	Due annually on March 15. The Annual Report shall contain the previous year's required reporting, from January 1 to December 31	Compliance
Appendix A, 3.4	Oral and Written Notification of Noncompliance	As Necessary	Orally within 24 hours from the time the permittee becomes aware of the circumstances of noncompliance, and written within 5 days after the permittee becomes aware of the circumstances of noncompliance	Compliance
Appendix A, 3.4	Summary Report of noncompliance	As Necessary	At the time the permittee submits monitoring reports under Appendix A, Part 3.2, and with the Annual Report	Compliance

Note:

- a. See Permit Part 2.1.4.12 Electronic Reporting..

1.0 PERMIT COVERAGE

1.1 Facility Eligibility.

Subject to meeting the conditions of this permit, onshore seafood processing facilities located in Kodiak, Alaska are eligible for coverage to discharge the pollutants specified herein to waters of the U.S., as set out in Part 1.2, after receiving an Alaska Department of Environmental Conservation (DEC or the Department) Alaska Pollutant Discharge Elimination System (APDES) written authorization, including an assigned authorization number.

1.2 Discharges Covered.

This permit authorizes the discharge of pollutants to waters of the U.S. subject to the limitations and conditions set forth herein, including:

- 1.2.1 Seafood processing waste and wastewaters from seafood butchering, washed and unwashed mince/paste production, and seafood by-product production into hydro-dynamically energetic waters with a high capacity for dilution and dispersion, including:
 - 1.2.1.1 Catch transfer water (delivering vessel fish hold waste and wastewater, live tank water, refrigerated seawater, or brine) conveyed to the onshore seafood facility.
 - 1.2.1.2 Cleaning, disinfectant, and defoaming agents used in seafood processes where the permittee follows the manufacturer's use and disposal recommendations. This includes the use of disinfectants added to wash down water to meet applicable state and federal sanitation standards by facilitating waste removal while processing or sanitizing seafood processing areas.
- 1.2.2 Non-process wastewaters.

1.3 Discharges Not Covered.

The discharge of any pollutant to waters of the U.S. that is not identified in a Notice of Intent (NOI) submitted to the Department, and expressly authorized by the permit, is not covered. Discharges not covered under the permit include, but are not limited to:

- 1.3.1 Discharge of domestic wastewaters.
- 1.3.2 Discharge of drinking water treatment wastewaters.
- 1.3.3 Discharge of vessel bilge waters.
- 1.3.4 Discharge of pollutants covered by other general or individual APDES permits.
- 1.3.5 Discharge of commingled or non-commingled storm water associated with construction activity.
- 1.3.6 Discharge of industrial storm water.

- 1.3.6.1 If the facility discharges industrial storm water to waters of the U.S., alone or commingled with seafood processing waste and wastewaters, the permittee shall determine whether the facility requires coverage under the APDES Multi-Sector General Permit (MSGP) for Storm Water Discharges Associated with Industrial Activity. The permittee shall identify the MSGP authorization number on the AKG528000 NOI (Part 1.6.2.6) or identify that the permittee has filed an MSGP No Exposure Certification.
- 1.3.6.2 Discharge of commingled industrial storm water and seafood processing waste and wastewaters is allowed only if all commingled wastewaters are treated to 1.0 mm or less, per Part 2.1.5.1.
- 1.3.7 Discharges associated with aquaculture and mariculture.

1.4 Prohibited Discharges.

- 1.4.1 The following discharges are prohibited under the permit:
 - 1.4.1.1 Discharge of putrid, raw (non-processed) seafood.
 - 1.4.1.2 Discharge of contaminated or unsold interim or finished seafood by-products (e.g., hydrolysate, fish meal, fish oil).
 - 1.4.1.3 Discharge of food and raw food ingredients, additives (e.g., salts, sugars, colors, etc.), or seafood processing chemicals (e.g., sulfates, phosphates, acids, bases, etc.) that have not been used directly in the permitted facility's seafood processing commodity line or in a seafood processing by-products line.
 - 1.4.1.4 Discharge of effluents that, alone or in combination with other substances or wastes, make the water unfit or unsafe for the use; cause a film, sheen, or discoloration to the water's surface or any shorelines; cause leaching of toxic or deleterious substances; or cause a sludge, solid, or emulsion to be deposited beneath or upon the water surface, within the water column, on the seafloor, or upon any shorelines.
 - 1.4.1.5 Discharge of hazardous or toxic substances, or other chemicals, in toxic amounts that may impair designated uses or violate water quality standards (WQS) of the receiving water.
 - 1.4.1.6 Discharge of seafood waste and wastewater and residues that create attractive nuisance conditions whereby fish or wildlife are attracted to waste disposal or storage areas in a manner that creates a threat to fish or wildlife or to human health and safety.
 - 1.4.1.7 Discharge of seafood waste and wastewater and residues that create a nuisance condition to designated uses as described in Part 2.1.9 and Appendix C.
 - 1.4.1.8 Discharges that cause contamination of surface or ground waters or cause a violation of the Alaska WQS at 18 AAC 70, unless allowed in this permit through exceptions to the standards (18 AAC 70.200 – 70.240).

1.5 Requesting Authorization.

In order to be authorized to discharge any of the pollutants set out in Part 1.2 to waters of the U.S., a permittee shall apply for coverage with the submittal of a complete NOI (Attachments A and A-1). The permittee as described herein is an owner or operator as defined in 18 AAC 83.990(45). This permit does not authorize any discharges from a seafood processor where the permittee (1) has not submitted a NOI and received written authorization from DEC to discharge under the permit, or (2) has not been otherwise notified in writing by DEC that the permittee is authorized to discharge under the permit (see Part 1.7).

- 1.5.1 Applicants shall submit a complete NOI and required attachments at least 90 days prior to the start of discharge.
- 1.5.2 The facility must comply with the current regulatory engineering plan review and approval requirements of 18 AAC 72, as applicable.
- 1.5.3 Updated NOI. A permittee with current coverage is required to submit an updated NOI under the following circumstances:
 - 1.5.3.1 A permittee's current NOI on file requires modification (e.g., authorized representative name or title, address, telephone numbers, production levels). Permittees shall submit these modified NOIs with the next Annual Report.
 - 1.5.3.2 Any material change is proposed, including but not limited to: discharge totals, mixing zones, and commodity lines processed. The material changes from the original NOI shall be clearly indicated on the new NOI.
 - 1.5.3.3 Changes to waste and wastewater treatment system(s) occur. See also Part 1.5.2.
- 1.5.4 A permittee is required to submit an updated NOI at least 30 days prior to the changes under Part 1.5.3.2 or Part 1.5.3.3, and modified operations may not commence prior to receiving written approval from DEC.
- 1.5.5 The Department may require a permittee to submit an updated NOI.
- 1.5.6 A permittee who fails to submit a timely and complete NOI and/or obtain coverage under the permit and who discharges seafood processing waste or wastewaters covered by this permit to waters of the U.S. will be in violation of the Clean Water Act (CWA) for discharging without an APDES permit.

1.6 Requirements to Submit a Complete Notice of Intent (NOI) (Attachments A and A-1).

- 1.6.1 A complete NOI shall include all information specified on the AKG528000 NOI and on Attachments A and A-1. A complete NOI shall include the information required in this Part. If information is missing, the NOI will be deemed incomplete and permit authorization will not be granted.
- 1.6.2 **Supporting documentation with the NOI.** A complete NOI submittal shall also include the following:

- 1.6.2.1 **Area Map.** A legible area map and coordinates of the location of the processor (front door) and all outfall terminuses for seafood processing and by-product wastewaters, 'Other outfalls,' and all other commingled discharges. The Global Positioning System (GPS) coordinates (latitude and longitude) of each proposed discharge location shall be provided in decimal degrees (North American Datum (NAD) 1983 or World Geodetic System (WGS) 1984 datum). The accuracy of coordinates shall be at least within ± 50 feet (17 meters). Also indicate the location of all incoming water supplies. Additional map (map layer) identifying whether the facility or any outfall is located within National Marine Fisheries Service (NMFS) or U.S. Fish and Wildlife Service (USFWS) designated critical habitat area.
- 1.6.2.2 **Bathymetric Chart.** A bathymetric chart to provide the depth of the seafloor for each outfall, reported at mean lower low water (MLLW) according to published National Oceanic and Atmospheric Administration (NOAA) bathymetric charts.
- 1.6.2.3 **Line Drawing.** The line drawing shall be tied in detail to the outfall narrative and outfall(s) described in the NOI Attachment A-1. The line drawing shall depict:
 - 1.6.2.3.1 Operational areas contributing waste and wastewater to the waste treatment units as well as non-process wastewaters. Similar processes, operations, or production areas may be identified as a single unit and labeled to correspond to a more detailed identification in a narrative report.
 - 1.6.2.3.2 Flows corresponding to Attachment A-1, identifying water/wastewater flow through the facility operations and treatment units.
 - 1.6.2.3.3 The location of all final monitoring locations, internal monitoring locations, and commingled storm water monitoring locations, where applicable.
- 1.6.2.4 **Outfall Narrative.** The permittee shall submit a narrative identifying:
 - 1.6.2.4.1 Each type of process, operation, or production area that contributes waste and wastewater to the effluent for each outfall, including reference to volumes in Attachment A-1. Processes, operations, or production areas may be described in general terms.
 - 1.6.2.4.2 A description of the treatment the wastewater receives, including the final disposal method of any solid or fluid seafood processing wastes and wastewaters disposed of other than by discharge through an outfall.
- 1.6.2.5 **Proposed Commodity Line Effluent Limitation Guideline (ELG) Calculation** (must be based on Appendix D).
- 1.6.2.6 **Evaluation of Storm Water Discharges.** Documentation of facility storm water discharge coverage under the APDES MSGP or notice that the facility has filed a No Exposure Certification with DEC.

1.6.2.7 **Mixing Zone Request.** Form 2M, if a mixing zone is requested. Permittees must include all associated information requested by the form, including modeling. DEC will approve mixing zone(s) if they are consistent with the CWA and the mixing zone criteria at 18 AAC 70.240 and the authorization will specify whether a mixing zone has been authorized, the maximum size of the authorized mixing zone(s), and the water quality criteria that may be exceeded within the authorized mixing zone(s) for each individual outfall. The burden of proof for justifying the mixing zone(s) rests with the applicant.

1.6.2.7.1 Permittees must also submit Form 2G and include sufficient information for the Department to complete an antidegradation analysis and make findings under 18 AAC 70.016 (b), (c), and (d). The Tier 2 antidegradation analysis is required for parameter(s) determined by the Department to meet the definition of new or expanded.

1.6.2.7.2 Permittees are required to apply for the mixing zones noted in Attachment F within 90 days of the permit effective date.

1.6.2.7.3 Mixing zones will be public noticed in accordance with 18 AAC 83.120.

1.7 Permit Authorization Conditions and Revocation.

1.7.1 A permittee seeking coverage with the submittal of an NOI is only covered by this permit after the receipt of a written authorization from DEC and the assignment of an APDES permit authorization number.

1.7.1.1 The permittee will be authorized to discharge at only those discharge locations listed on the written authorization.

1.7.2 If a permit authorization is approved and the permittee submits a NOI proposing a discharge that may significantly alter pollutant loading or discharge locations, or if required reporting shows that the discharge is not complying with WQS or permit conditions, DEC may condition the authorization with restricted discharge dates or discharge amounts.

1.7.3 If a permit authorization is approved, DEC can modify or deny continued coverage by written notice to the permittee.

1.7.4 DEC may notify a permittee that they are covered by this permit, even if the operator has not submitted a NOI.

1.7.5 DEC may require any permittee applying for, or covered by, a general permit authorization to apply for and obtain an individual permit.

1.7.6 If a permittee submits an individual permit application, DEC may at its discretion issue a general permit authorization in lieu of issuing an individual permit.

1.7.7 A permittee automatically covered by this permit may request to be excluded from coverage by applying to the Department for an individual permit. The request shall be made by submitting APDES individual permit application forms with reasons supporting the request.

1.8 **Transfer of Authorization or Change in Location.**

1.8.1 **Change in Facility Location.** Authorization under this permit is specific to a facility's geographic location and is not transferable if a facility changes location. If a permittee moves to a new location not listed in the APDES authorization, thereby changing the discharge location, the permittee shall submit a Notice of Termination (NOT) form for the former facility's authorization within 30 days of ceasing discharge from the facility. The permittee shall apply for coverage for a new facility and discharge location by submitting a new NOI. The permittee is not authorized to discharge at the new location until the permittee receives a new written authorization.

1.8.2 **Change in Outfall Location.** If a permittee intends to change the location or design of any outfall/outfall terminus, the permittee shall submit an updated NOI with the proposed new outfall location at least 90 days prior to the relocation.

1.8.3 **New Operator.**

1.8.3.1 DEC may transfer authorization to discharge under this permit to another operator if:

1.8.3.1.1 The new operator notifies the Department in writing of the proposed transfer and submits a complete Name Change / Transfer of Ownership form. The new operator confirms in writing that the commodity lines processed and volume discharged remain the same and that other information given on the original NOI remains correct or the operator submits a modified NOI.

1.8.3.1.2 Neither the current permittee nor the new operator has received notification of the Department's intent to terminate coverage under this permit within 30 days of the operator's transfer request.

1.8.3.2 The Department may continue coverage for a new operator under this permit or may require the new operator to apply for and obtain a different permit authorization.

1.8.3.3 The new operator is responsible for payment of any applicable permit fees.

1.8.4 **Broken or repositioned outfall line.** If the permittee identifies that the outfall has moved or broken, the permittee shall submit a notice of noncompliance for discharging to an unauthorized discharge location in accordance with Appendix A. A notice of noncompliance is not required if the line break is identified and repaired prior to any unauthorized discharge.

1.8.4.1 The permittee shall attempt to repair or replace the outfall pipe in accordance with Part 1.5.2. If the permittee is unable to place the terminus at the previously approved location, the permittee shall apply for coverage at the new location in accordance with Part 1.8.2.

1.9 **Continuation of an Expired General Permit.**

1.9.1 If the permit is not reissued prior to the expiration date, it will be administratively continued in accordance with 18 AAC 83.155(c) and remain in force and effect for discharges that were authorized prior to expiration.

- 1.9.1.1 A permittee who wishes to remain covered by administrative continuation of this permit shall submit a timely and complete NOI to the Department six months (180 days) prior to the expiration of the permit requesting authorization for coverage under a reissued permit.
- 1.9.1.2 Coverage under the continued general permit will be issued to new applicants submitting a NOI in compliance with Part 1.6.
- 1.9.1.3 Following a permittee's timely and appropriate submittal of a complete NOI, the Department may:
 - 1.9.1.3.1 Reissue the general permit and provide continued coverage.
 - 1.9.1.3.2 Issue an administrative continuation letter to the permittee.
 - 1.9.1.3.3 Make a formal decision to not reissue this general permit or to not cover a particular discharger previously authorized by the general permit, at which time DEC will identify a reasonable time period for covered dischargers to seek coverage under an alternative APDES permit. Coverage under this permit will cease at the end of this time period.
- 1.9.2 The permittee is required to abide by all limitations, monitoring, and reporting included herein if the permit enters administrative continuation until such time a permit is reissued authorizing the discharge or a NOT is submitted by the permittee.
- 1.9.3 If the permit is administratively continued, the permittee shall continue or reinitiate all of the originally required monitoring schedules established in the permit.

1.10 Termination of Permit Coverage.

- 1.10.1 **Permittee-Requested Termination.** To terminate permit coverage, a permittee shall submit a complete and accurate NOT (Attachment E).
- 1.10.2 **When to Submit a NOT.** A permittee may request termination of permit coverage by submitting a DEC NOT form if any of the following conditions have been met:
 - 1.10.2.1 All discharges have permanently ceased.
 - 1.10.2.2 The entire discharge is routed to a properly operating and permitted wastewater treatment facility with an established industrial source pretreatment program, meeting all pretreatment requirements.
 - 1.10.2.3 A change in facility and discharge location has occurred, as outlined in Part 1.8.
 - 1.10.2.4 The permittee has obtained coverage under an individual or alternative general permit for all discharges required to be covered by an APDES permit.
- 1.10.3 If a permittee submits a NOT without meeting one or more of the conditions identified in Part 1.10.2, then the permittee's NOT is not valid. The permittee is responsible for meeting the terms of this permit until their authorization is terminated.

- 1.10.4 Any permittee who has not requested termination of permit coverage, or whose authorization has not been terminated by the Department, remains responsible for meeting all permit requirements, including monitoring and reporting, until the authorization is terminated.

2.0 LIMITATIONS AND REQUIREMENTS

2.1 General Requirements.

The following limitations and requirements apply to all eligible dischargers as specified in Part 1.1.

- 2.1.1 **Flow Meter and Totalizer Installation.** Permittees are required to install and maintain effluent flow meters and totalizers on all authorized outfall lines (except for those flows excluded under Table 8 – Footnote e) prior to beginning discharge.

2.1.2 Flow Measurements.

- 2.1.2.1 Installed or upon installation, the permittee shall continuously measure and record the effluent flow using a flow meter and totalizer during all periods of operation and discharge.
- 2.1.2.2 The permittee shall record each outfall's measured flow, report the daily flow for each sampling day (24-hour sampling period), and report the average monthly flow.

2.1.3 Pre-Installation / Pre-Discharge Survey Requirements.

- 2.1.3.1 The permittee shall not anchor any outfall in or discharge waste or wastewater into or onto "living substrates" such as submerged aquatic vegetation, kelp, or eelgrass. A pre-biological survey is required in compliance with Appendix G where:
- 2.1.3.1.1 A new onshore facility with new outfall(s) is proposed, or
- 2.1.3.1.2 An existing facility is proposing a new outfall location, or
- 2.1.3.1.3 A permittee is restarting a seafood processing facility in a location where no seafood discharges have occurred for the past 12 months.

2.1.4 Monitoring and Reporting Requirements.

- 2.1.4.1 The monitoring schedules as set out in the permit are required to begin upon the effective date of this permit and shall continue until the next permit reissuance establishes new monitoring requirements.
- 2.1.4.2 All monitoring must be representative of the waste stream flow and shall be conducted while the applicable discharge is occurring. When seafood processing occurs for short or intermittent periods, samples shall be taken while seafood processing waste and wastewaters discharge and/or other wastewaters discharge is occurring.

- 2.1.4.3 The permittee shall have appropriate laboratory sample collection equipment onsite, and sample collection and analysis shall be conducted in accordance with a Quality Assurance Project Plan (QAPP) (Part 2.8) and 40 CFR Part 136.
- 2.1.4.4 For all effluent monitoring, the permittee must use a sufficiently sensitive EPA-approved test method that quantifies the level of pollutants to a level lower than applicable limits or WQS, or use the most sensitive test method available, per 40 CFR Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants), adopted by reference at 18 AAC 83.010(f). Upon request by the Department, the permittee must submit the results of any other monitoring regardless of the test method used.
- 2.1.4.5 For purposes of reporting on the DMR for a single sample, if a value is less than the method detection limit (MDL), the permittee must report “less than (<) {numeric value of MDL}” and if a value is less than a minimum level (ML) (also called a reporting limit (RL), a practical quantification limit (PQL), or a limit of quantitation (LOQ)), the permittee must report “less than (<) {numeric value of ML}.”
- 2.1.4.6 Permittees have the option of taking more frequent samples than are required under the permit. These samples must be used for averaging if they are conducted using the Department approved test methods (generally found in 18 AAC 70 and 40 CFR Part 136 [adopted by reference in 18 AAC 83.010]). The permittee shall include the results of any additional monitoring in the calculation and reporting of data submitted in the DMR (per Appendix A, Part 3.2 and Part 3.3).
- 2.1.4.7 The permittee must calculate all limitations that require averaging of measurements using an arithmetic mean unless the Department specifies another method in the permit. For purposes of calculating monthly averages, zero may be assigned for values less than the MDL and the numeric value of the MDL may be assigned for values between the MDL and the ML. If the average value is less than the MDL, the permittee must report “less than (<) {numeric value of MDL}” and if the average value is less than the ML, the permittee must report “less than (<) {numeric value of ML}.” If a value is equal to or greater than the ML, the permittee must report and use the actual value.
- 2.1.4.8 The permittee shall identify on the DMR if the sample arrived outside of required analytical method hold times and shall submit a noncompliance notification per Appendix A, Part 3.5 if an acceptable replacement sample was not collected and analyzed for that monitoring period.
- 2.1.4.9 The permittee shall monitor each outfall separately and, where required, submit a separate DMR for each outfall.
- 2.1.4.10 If discharge does not occur during a month in which discharge typically occurs, the permittee must submit a DMR indicating “no discharge” through NetDMR.

2.1.4.11 DEC may require additional effluent or receiving water monitoring for site-specific purposes related to, but not limited to: NOI submittal information, protection of state WQS, gathering data to support Total Maximum Daily Load (TMDL) development, evaluation of receiving water impairments, evaluation of water quality at the boundary of a mixing zone, or evaluation of effects on threatened or endangered species. Likewise, monitoring frequencies may be adjusted for site-specific purposes. The permittee will be notified of any additional or site-specific monitoring when issued authorization to discharge under the general permit.

2.1.4.12 **Electronic Reporting.**

2.1.4.12.1 **E-Reporting Rule - Phase I (DMRs).** The permittee must submit a DMR for each month by the 28th day of the following month. DMRs shall be submitted electronically through NetDMR per Phase I of the E-Reporting Rule (40 CFR Part 127). For access to the NetDMR Portal, go to <https://cdx.epa.gov/>. DMRs submitted in compliance with the E-Reporting Rule are not required to be submitted as described in Appendix A – Standard Conditions unless requested or approved by the Department. Any DMR data required by the Permit that cannot be reported in a NetDMR field shall be included as an attachment to the NetDMR submittal. DEC has established an E-Reporting Information website at <https://dec.alaska.gov/water/compliance/electronic-reporting-rule> which contains general information about this reporting format. Training modules and webinars for NetDMR can be found at https://usepa.servicenowservices.com/oeca_icis?id=netdmr_homepage.

2.1.4.12.2 **E-Reporting Rule - Phase II (Other Reports).** Phase II of the E-Reporting Rule integrates electronic reporting for all other reports required by the Permit. All wastewater permit-required submissions (e.g., Notices of Intent (NOIs), Notices of Termination (NOTs), Annual Reports, and Noncompliance Notifications, etc.) are to be submitted electronically through DEC’s Environmental Data Management System (EDMS), accessible via <https://dec.alaska.gov/water/edms>, unless prior approval has been obtained from DEC for an alternative means.

2.1.5 **Treatment and Limits Applicable to All Permittees.**

2.1.5.1 Permittees shall treat seafood processing waste and wastewaters to 1.0 millimeter (mm) or less, via screens or other equivalent technology capable of meeting the technology-based effluent limitations found in Part 2.2 (Table 3) and Part 2.4 (Table 6), prior to discharge.

2.1.5.1.1 Permittees shall convey all collected seafood processing waste solids to a by-product recovery facility or to a by-product recovery commodity line or dispose of them in another Department-approved manner.

2.1.5.2 The permittee shall route process wastewater through the facility’s seafood processing wastewater treatment and conveyance systems.

- 2.1.5.3 Permittees may, but are not required to, discharge non-process wastewaters through the seafood waste treatment system. Permittees shall establish pollution reduction best management practices (BMPs) for any effluents that have not been sent through the screening system.
- 2.1.5.4 Permittees shall route all incidental seafood processing waste in floor drains and scuppers through a conveyance system to the seafood waste treatment system prior to discharge.
- 2.1.5.5 If there are reoccurring (more than once) sea surface residues violations at the facility, the permittee is required to develop and implement mitigating BMPs upon discovery to ensure that the violation is eliminated and will not be repeated in the future.
- 2.1.5.6 All permit required effluent monitoring, except as specified in Part 2.2, Part 2.3, and Part 2.4, shall be performed after all commingling has occurred and after the last treatment unit but prior to discharge to waters of the U.S. If a facility is authorized a mixing zone, the effluent limits in Table 2 may be superseded by corresponding modified effluent limits in the individual authorization to discharge. DEC will notify the permittee of any modified effluent limits when issuing an authorization to discharge under this general permit.
- 2.1.5.7 All effluents discharged to waters of the U.S. must meet the limits found in Table 2, except as described in Part 2.1.5.6.

Table 2: Final Effluent Limits Applicable to All Permittees

Parameter	Units	Minimum	Maximum
Temperature	° C	—	15
pH	SU	6.5	8.5
Total Residual Chlorine (TRC)	µg/L	—	100

2.1.6 Outfall System Inspection.

- 2.1.6.1 The permittee shall perform an outfall condition inspection during the seafloor survey found in Part 2.6.2. The permittee must include the inspection methods in the QAPP and make them available to DEC upon request.
 - 2.1.6.1.1 The permittee shall ensure cathodic protection is functional and the outfall system and cathodic protection are not at the end of functional life.
 - 2.1.6.1.2 The permittee shall document outfall condition and remaining life.
 - 2.1.6.1.3 The permittee shall keep a log of repairs to the outfalls.
- 2.1.6.2 The permittee shall cease discharging from a severed, failed, or leaking outfall system as soon as possible, but no more than ten days past discovery of the severance, failure, or damage, with the allowance of enough time to process seafood already offloaded to the facility. Seafood product that has been accepted after the identification of the severance, failure, or damage may not be processed such that it results in a discharge from the damaged system(s). The permittee shall report any failure of the outfall system to DEC in accordance with Appendix A, Part 3.4.

2.1.6.3 The permittee shall submit a summary report of noncompliance information gathered during the calendar year as part of the Annual Report (Part 2.7). The report does not replace the need to submit a noncompliance notification under Appendix A, Part 3.5 for applicable violations under the permit.

2.1.7 Permittees Discharging to or within 1.0 nm of Critical Habitat Areas or Game Refuges.

2.1.7.1 Permittees shall have trained personnel at the facility capable of identifying the listed threatened or endangered species (e.g., spectacled eiders, Steller's eiders, Northern Sea Otters, Sea Lions, etc.) and shall keep record of sightings (Part 2.6.1.2.3).

2.1.7.2 Permittees that transfer fuel in or within 1.0 nautical mile (nm) of the critical habitat area shall comply with all federal and state regulations for the prevention of, preparedness for, and response to oil discharges. Permittees shall have written procedures in their BMP Plan for spill response and shall store adequate oil and fuel clean-up equipment at the facility and at fuel transfer locations.

2.1.7.3 A new outfall proposed to discharge in designated critical habitat area will be public noticed in accordance with 18 AAC 83.120 requirements.

2.1.8 Moored/Docked Support Vessels (Processing or Freezing).

2.1.8.1 Moored/docked vessels and barges providing support (processing or freezing) to the onshore facility must route all discharges to the facility's waste treatment systems. Discharges from a support vessel are not otherwise allowed, except those non-commingled ballast water discharges for the normal operation of the vessel.

2.1.8.2 The permittee shall list each moored vessel or barge on the onshore facility's NOI. Each listed vessel and/or barge will be covered under the onshore facility's APDES authorization.

2.1.8.3 A support vessel's sanitary wastewater must only be disposed of in a Department approved manner.

2.1.9 Nuisance Conditions.

2.1.9.1 The permittee shall ensure seafood processing waste and wastewater and residues do not create attractive nuisance conditions whereby fish or wildlife are attracted to seafood waste or wastewater, or to storage areas, in a manner that creates a threat to fish or wildlife or to human health and safety.

2.1.9.2 The permittee shall ensure seafood processing waste and wastewater and residues do not create a nuisance condition to designated uses.

2.1.9.3 DEC will use the following criteria to determine whether a nuisance or an objectionable condition exists, including whether seafood waste or wastewaters are or have been:

2.1.9.3.1 Attracting undesirable or nuisance species.

- 2.1.9.3.2 Creating an objectionable odor or taste.
- 2.1.9.3.3 Resulting in complaints or observations from existing users.
- 2.1.9.3.4 Inconsistent with the intended use of the area as designated in a land use or other resource management plan adopted by a federal, state, or local government.

2.2 Conventional or Mechanized Seafood Processing (Butchering).

- 2.2.1 The effluent discharge limitations and monitoring required by this Part are as specified in Table 3 and Table 4, respectively.
- 2.2.2 If the effluent from the butchering line is commingled with washed mince / washed paste line effluent (Part 2.3) or seafood by-product production effluent (Part 2.4), the permittee shall monitor the butchering effluent for BOD₅, O&G, and TSS under Table 4 at an internal monitoring location prior to commingling with the washed mince / washed paste effluent and/or seafood by-product production effluent. The permittee shall monitor for TRC, total ammonia, pH, and temperature under Table 4 after all commingling has occurred.
 - 2.2.2.1 For the internal monitoring location, the permittee is required to screen the butchering wastewater sample(s) to 1.0 mm or less, equivalent to the seafood waste treatment screening technology installed, prior to analysis for BOD₅, O&G, and TSS.
 - 2.2.2.2 The permittee shall not include the pounds of raw product processed into washed mince / washed paste at the facility in the butchering line's pounds raw product processed when calculating lbs pollutant/1,000 pounds raw product processed for BOD₅, O&G, and TSS under Table 4.
- 2.2.3 Permittees shall develop methods to calculate or measure individual commodity line pounds processed (lbs/day) to use in permit limit calculations.
- 2.2.4 Permittees must calculate facility-specific (single and/or mixed commodity, as applicable) effluent limits (based on Table 3) using the methods in Appendix D.
 - 2.2.4.1 Permittees must include all calculations performed in accordance with Table 3 and Table 4 as an attachment to the DMR.
 - 2.2.4.2 If multiple commodity lines were processed on the sampling day or during the month, the permittee shall calculate the mixed commodity effluent limits based on weighted averages of the limits in Table 3.
 - 2.2.4.2.1 The permittee shall indicate on the DMR attachment the commodity lines processed during the reporting period as well as the lbs pollutant discharged / 1,000 lbs raw product processed for applicable pollutants (e.g., BOD₅, O&G, TSS).
- 2.2.5 The permittee must report all instances of noncompliance with the effluent limits in Table 3 in accordance with Appendix A, Part 3.4 and on the DMR and must discuss them in the Annual Report (Part 2.7.3.2.4).

2.2.6 Monitoring and Reporting Requirements.

2.2.6.1 The permittee shall report the number of days in the calendar month that processing on each commodity line occurred.

2.2.6.2 Every commodity line processed for at least 24 hours during the calendar month must be represented in at least one of that month's sampling events under Table 4. Permittees may need to sample more frequently than the minimum weekly frequency to fulfill this requirement. Permittees must include results for all sampling days in the Annual Report (Part 2.7.3.2.1).

Table 3: Butchering Effluent Limitations (Outfall 001)

Commodity Line	Total Suspended Solids (TSS) (lbs/1,000 lbs)		Oil & Grease (O&G) (lbs/1,000 lbs)		Biochemical Oxygen Demand (BOD ₅) (lbs/1,000 lbs)	
	Daily Maximum	Monthly Average ^b	Daily Maximum	Monthly Average ^b	Daily Maximum	Monthly Average ^b
Crab Meat	16	5.3	1.6	0.52	report	report
Whole Crab/Crab Sections	9.9	3.3	1.1	0.36	report	report
Shrimp	270	180	45	15	report	report
Salmon Conventional/Hand Butchered	2.3	1.4	0.28	0.17	report	report
Salmon Mechanized Processing	42	25	28	10	report	report
Bottom Fish ^a Conventional/Hand Butchered	1.9	1.1	2.6	0.34	report	report
Bottom Fish ^a Mechanized Processing	22	12	9.9	3.9	report	report
Scallops	5.7	1.4	7.3	0.23	report	report
Herring – Frozen Whole	2.3	1.4	0.28	0.17	report	report
Herring Fillet Processing	23	18	20	7.3	report	report

Notes:

- a. Bottom fish include flounder species (e.g., arrowtooth), flatfish/sole species (e.g., yellowfin), halibut, rockfish/snapper species, ocean perch species (e.g., pacific), cod species (e.g., pacific, ling), pollock, sablefish, atka mackerel, and Pacific hake (whiting).
- b. If there are five weekly samples taken in a month, all five values must be used when calculating the monthly average.

Table 4: Butchering Monitoring and Reporting Requirements (Outfall 001)

Parameter	Units ^a	Sample Frequency	Reporting Requirements	Sample Type
Daily Flow	mgd	record daily	report for each sampling day	metered
Monthly Flow	mgd	record daily	report monthly average	metered
Amount raw product processed ^b	lbs	daily	report poundage by commodity line for sampling days and monthly total	measured for each commodity line
Number of Days Processing ^b	days	record daily	report monthly total	measured
BOD ₅ ^c	mg/L	weekly	report	composite ^d
	lbs/ 1,000 lbs			
TSS ^c	mg/L	weekly	report	composite ^d
	lbs/ 1,000 lbs			
O&G ^c	mg/L	weekly	report	grab
	lbs/ 1,000 lbs			
Total Residual Chlorine (TRC) ^c	µg/L	weekly	report	grab
Total Ammonia	mg-N/L	weekly	report	grab
pH	SU	weekly	report	grab
Temperature	° C	weekly	report	grab

Notes:

- Units: mgd = million gallons per day (24 hours), lbs = pounds, mg/L = milligrams per liter, lbs/day = pounds per day, lbs/1,000 lbs = pounds per 1,000 lbs raw product processed, mL/L = milliliter per liter, µg/L = micrograms per liter, SU = standard units, ppt = parts per thousand, and °C = degrees Celsius.
- The permittee shall report the number of processing days and the raw product lbs processed (for sampling days and total monthly) for each commodity line (e.g., crab meat, whole crab or crab sections, salmon by conventional/hand, salmon by mechanized processing, bottom fish, herring fillet processing, herring frozen whole, or scallops).
- Permittees shall report the daily maximum (for each monitoring day) and monthly average BOD₅, TSS, and O&G pounds / 1,000 pounds raw product processed. The calculations to determine pounds of pollutant discharged / 1,000 pounds of raw product processed, as well as calculations to determine compliance with the effluent limitations in Table 3, are shown in Appendix D.
- See Appendix C for a definition. The compositing period shall be for 24 hours or for the total amount of time on the sampling day during which there is flow from the outfall. The composite sample shall consist of at least one equal volume aliquot per every full three hours in the compositing period. Deviations from this composite sampling protocol may be used if requested with the NOI and approved in writing in the facility's individual authorization to discharge.
- Chlorine monitoring is required only if used as a disinfectant or introduced elsewhere in the seafood processing area. Compliance with the limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use 100 µg/L as the compliance limit for this parameter.

2.3 Washed Mince and Washed Paste Commodity Line Requirements

- 2.3.1 If washed mince / washed paste seafood processing waste and wastewater is the only discharge through an individual outfall, the washed mince / washed paste effluent must be treated to 1.0 mm or less and monitored per the schedule set out in Table 5.
- 2.3.2 If the washed mince / washed paste seafood processing waste and wastewaters are commingled with other wastewaters prior to screening and discharge, the permittee shall monitor the effluent per Table 5 at an internal monitoring point located prior to any commingling to determine washed mince / washed paste commodity line effluent mass-based pollutant loading.
 - 2.3.2.1 For the internal monitoring location, the permittee is required to screen the washed mince / washed paste waste and wastewater sample(s) to 1.0 mm or less, equivalent to the seafood waste treatment screening technology installed, prior to analysis for BOD₅, O&G, and TSS.

(Table 5: Washed Mince / Washed Paste Effluent Monitoring and Reporting Requirements (Outfall 002) is located on the following page.)

Table 5: Washed Mince / Washed Paste Effluent Monitoring and Reporting Requirements (Outfall 002)

Parameter	Units ^a	Sample Frequency	Reporting Requirements	Sample Type
Daily Flow	mgd	record daily	report for each sampling day	metered
Monthly Flow	mgd	record daily	report monthly average	metered
Raw product sent to washed mince / washed paste commodity line / area ^b	lbs	record daily	report for sampling days and monthly total	measured
Number of Days Processing ^b	days	record daily	report monthly total	measured
BOD ₅ ^c	mg/L	weekly	report	composite ^d
	lbs/ 1,000 lbs			
TSS ^c	mg/L	weekly	report	composite ^d
	lbs/ 1,000 lbs			
O&G ^c	mg/L	weekly	report	grab
	lbs/ 1,000 lbs			
Total Residual Chlorine (TRC) ^e	µg/l	weekly	report	grab
Total Ammonia	mg-N/L	weekly	report	grab
pH	SU	weekly	report	grab
Temperature	° C	weekly	report	grab

Notes:

- a. Units: mgd = million gallons per day (24 hours), lbs = pounds, mg/L = milligrams per liter, lbs/day = pounds per day, lbs/1,000 lbs = pounds per 1,000 lbs raw product processed, mL/L = milliliter per liter, µg/L = micrograms per liter, SU = standard units, ppt = parts per thousand, and °C = degrees Celsius.
- b. The permittee shall report the number of processing days and the raw product lbs processed (for sampling days and total monthly).
- c. Permittees shall report the daily maximum (for each monitoring day) and monthly average BOD₅, TSS, and O&G pounds / 1,000 pounds raw product processed. The calculations to determine pounds of pollutant discharged / 1,000 pounds of raw product processed are shown in Appendix D.
- d. See Appendix C for a definition. The compositing period shall be for 24 hours or for the total amount of time on the sampling day during which there is flow from the outfall. The composite sample shall consist of at least one equal volume aliquot per every full three hours in the compositing period. Deviations from this composite sampling protocol may be used if requested with the NOI and approved in writing in the facility's individual authorization to discharge.
- e. Chlorine monitoring is required only if used as a disinfectant or introduced elsewhere in the seafood processing area. Compliance with the limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use 100 µg/L as the compliance limit for this parameter unless it is an internal outfall (which would not have a compliance limit).

2.4 Seafood By-product Discharge Requirements

- 2.4.1 The permittee shall measure (weigh) and report the pounds of screened seafood solids received at the by-product facility / line(s).
- 2.4.1.1 The permittee shall use the pounds of screened seafood solids received at the by-product facility/line and the calculations in Appendix D to calculate the lbs pollutant/1,000 pounds raw product processed and evaluate compliance with the effluent limits in Table 6.
- 2.4.2 The effluent limits in Table 6 and monitoring requirements in Table 7 apply to:
- 2.4.2.1 An internal monitoring location prior to commingling with discharges under Part 2.2 and/or Part 2.3, for commingled discharges.
- 2.4.2.1.1 For the internal monitoring location, the permittee is required to screen the by-product waste and wastewater sample(s) to 1.0 mm or less, equivalent to the seafood waste treatment screening technology installed, prior to analysis for BOD₅, O&G, and TSS.
- 2.4.2.2 The post-screening effluent monitoring location for non-commingled discharges.
- 2.4.3 The permittee shall describe the methods for stickwater and stickwater condensate (solids) disposal in the NOI. The BMP Plan (Part 2.9) must include the waste and wastewater treatment system applicable to the seafood processing by-product waste and wastewater (including stickwater), stickwater disposal method, and backup stickwater disposal method should the treatment system fail.
- 2.4.4 If stickwater or stickwater recovery effluent is discharged through an outfall, sampling under Table 7 must be conducted while the stickwater effluent is being discharged. When discharge is occurring for short or intermittent periods, samples shall be taken midway during stickwater discharge.
- 2.4.5 The permittee must report the daily flow (mgd) of stickwater effluent discharged in the Annual Report (Part 2.7).

**Table 6: Seafood By-product Effluent Limitations
(Fish Meal, Fish Oil, Fish Hydrolysate, and Other) (Outfall 003)**

Parameter	Units ^a	Monthly Average Limit ^b	Daily Maximum Limit
BOD ₅	lbs/1,000 lbs	3.8	6.7
TSS	lbs/1,000 lbs	1.5	3.7
O&G	lbs/1,000 lbs	0.76	1.4
Notes:			
a. Units: lbs/1,000 lbs = pounds per 1,000 lbs raw product (screened solids received) processed.			
b. If there are five weekly samples taken in a month, all five values must be used when calculating the monthly average.			

**Table 7: Seafood By-product Monitoring and Reporting Requirements
(Fish Meal, Fish Oil, Fish Hydrolysate and Other) (Outfall 003)**

Parameter	Units ^a	Sample Frequency	Reporting Requirements	Sample Type
Daily Flow	mgd	record daily	report for each sampling day	metered
Monthly Flow	mgd	record daily	report monthly average	metered
Amount seafood received by the by-product recovery line ^b	lbs	record daily	report for sampling days and monthly total	measured (weighed)
Number of Days Processing ^b	days	record daily	report monthly total	measured
BOD ₅ ^c	mg/L	weekly	report	composite ^d
	lbs/1,000 lbs			
TSS ^c	mg/L	weekly	report	composite ^d
	lbs/1,000 lbs			
O&G ^c	mg/L	weekly	report	grab
	lbs/1,000 lbs			
Total Residual Chlorine (TRC) ^e	µg/l	weekly	report	grab
Total Ammonia	mg-N/L	weekly	report	grab
pH	SU	weekly	report	grab
Temperature	° C	weekly	report	grab

Notes:

- a. Units: mgd = million gallons per day (24 hours), lbs = pounds, mg/L = milligrams per liter, lbs/day = pounds per day, lbs/1,000 lbs = pounds per 1,000 lbs raw product (screened seafood waste received) processed, mL/L = milliliter per liter, µg/L = micrograms per liter, SU = standard units, ppt = parts per thousand, and °C = degrees Celsius.
- b. The permittee shall report the number of processing days and the raw product lbs processed (for sampling days and total monthly).
- c. Permittees shall report the daily maximum (for each monitoring day) and monthly average BOD₅, TSS, and O&G pounds / 1,000 pounds raw product processed. The calculations to determine pounds of pollutant discharged / 1,000 pounds of raw product processed, to determine compliance with the effluent limitations in Table 6, are shown in Appendix D.
- d. See Appendix C for a definition. The compositing period shall be for 24 hours or for the total amount of time on the sampling day during which there is flow from the outfall. The composite sample shall consist of at least one equal volume aliquot per every full three hours in the compositing period. Deviations from this composite sampling protocol may be used if requested with the NOI and approved in writing in the facility's individual authorization to discharge.
- e. Chlorine monitoring is required only if used as a disinfectant or introduced elsewhere in the seafood processing area. Compliance with the limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use 100 µg/L as the compliance limit for this parameter unless it is an internal outfall (which would not have a compliance limit).

2.5 Other Outfall(s) Limits and Monitoring

- 2.5.1 The permittee shall treat any water that has come into contact with seafood at the facility, including any discharges from the facility other than from the main seafood processing outfall, to meet the established requirements in Part 2.1.5.1. The permittee shall send the resulting screened/sieved seafood processing waste solids to a by-product recovery facility or dispose of them by other Department-approved methods.

- 2.5.1.1 Permittees discharging effluent from an outfall other than the main seafood processing outfall shall monitor the effluents from each outfall as specified in Table 8 prior to discharge. If the permittee only discharges from a single outfall (all discharges are commingled and monitored under Part 2.2 or Part 2.4), monitoring under Table 8 is not required.
- 2.5.2 The permittee shall minimize any incidental foam and scum discharged to the extent practicable and shall develop and implement BMPs to control foam and scum (Part 2.9.5.7.18).
- 2.5.3 The permittee shall not route water and ice used for storing seafood and/or seafood by-products to storm water drainage system outfalls covered by an MSGP No Exposure Certification.
- 2.5.4 Permittees shall not return catch transfer water to a vessel after offloading is complete. The water must be retained by the facility and discharged in accordance with permit requirements.

Table 8: Other Outfall(s) Monitoring and Reporting Requirements (Outfall 004)

Parameter	Units ^a	Sample Frequency ^f	Reporting Requirements	Sample Type
Daily Flow	mgd	record daily	report for each sampling day	metered/estimated ^e
Monthly Flow	mgd	record daily	report monthly average	metered/estimated ^e
BOD ₅	mg/L	monthly	report	composite / grab ^b
TSS	mg/L	monthly	report	composite / grab ^b
O&G	mg/L	monthly	report	grab
pH	SU	monthly	report	grab
Temperature ^c	° C	monthly	report	grab
Total Ammonia	mg-N/L	monthly	report	grab
Total Residual Chlorine (TRC) ^d	µg/L	monthly	report	grab

Notes:

- a. Units: mgd = million gallons per day (24 hours), mg/L = milligrams per liter, mL/L = milliliter per liter, µg/L = micrograms per liter, SU = standard units, ppt = parts per thousand, and °C = degrees Celsius
- b. If the flow from the outfall is intermittent, grab samples that are representative of the waste stream flow may be taken. Otherwise, composite samples shall be taken, in accordance with the definition in Appendix C.
- c. For thermal discharges, temperature must be taken and reported during the time of thermal discharge.
- d. Chlorine monitoring is required only if used as a disinfectant or introduced elsewhere in the seafood processing area. Compliance with the limits for total residual chlorine cannot be determined using EPA-approved analytical methods. DEC will use 100 µg/L as the compliance limit for this parameter.
- e. Flows that are intermittent may be estimated instead of metered.
- f. The permittee may request in writing that parameter monitoring frequencies be reduced to quarterly after one year of monitoring and reporting if results indicate no detections above applicable WQS. Monitoring reductions can only occur once written approval from the Department is received.

2.6 Receiving Water Quality Monitoring

2.6.1 Sea Surface and Shoreline Monitoring

2.6.1.1 During each day seafood processing effluent discharge occurs, the permittee shall visually inspect the shoreline and receiving water immediately surrounding the facility and outfalls and record observations on a daily log (see Attachment B as an example). These logs may be kept electronically instead of hard copy but must be made available to DEC upon request. The daily visual inspection shall include the shoreline (the intersection of the water's surface with land or manmade structures on any given tide cycle) and the readily visible receiving water area. The area above all discharge points should be included in the daily visual inspection if they are within the readily visible receiving water area.

2.6.1.1.1 The readily visible receiving water is defined as the receiving water area that a shore-based observer can see, and it varies with weather (e.g., fog) and sea conditions (e.g., waves). As a result, the extent of the readily visible receiving water area should be noted as part of each daily monitoring event.

2.6.1.2 The permittee's selected observation site shall allow the permittee's personnel to visually observe the receiving water and the surface of the water directly above each outfall terminus. If the permittee cannot accomplish sea surface and shoreline observations due to poor weather or rough sea conditions, the permittee shall note why observations could not be made. Visual inspections shall include:

2.6.1.2.1 Shoreline Observations – Inspect the facility's readily-visible shoreline areas and waters surrounding these areas, including harbors, boats, docks, and piers. Shoreline observations shall include any observations of seafood waste or residues depositing on the surfaces, encompassing a minimum of 100 feet to either side of the parcel lines along the shore. If the permittee does not own waterfront areas, the permittee shall make shoreline monitoring observations from where they can observe the area where the facility's discharge may typically reach the shoreline.

2.6.1.2.2 Sea Surface Observations - Inspect the readily visible receiving water surrounding all outfall terminuses and docks, documenting all areas and sizes of sheens, films, foam, and scum observed. A log must be maintained for all sea surface observations. The observation spot chosen shall allow the personnel to see the water surfaces surrounding the different outfalls and the dock area(s).

2.6.1.2.3 Endangered and Threatened Species

2.6.1.2.3.1 The permittee shall ensure that personnel at the facility are trained and capable of identifying the listed endangered and threatened species.

- 2.6.1.2.3.2 The permittee shall have the trained personnel record the occurrence and approximate numbers of animals within the survey area, including black-legged kittiwakes (*Rissa tridactyla*), Western Steller sea lions (*Eumetopias jubatus*), Steller's eiders (*Polysticta stelleri*), Short-tailed Albatross (*Phoebastria albatrus*), and Southwest Alaska Distinct Population northern sea otters (*Enhydra lutris kenyoni*).
- 2.6.1.2.3.3 When monitoring the survey area for the listed and endangered species, the trained personnel shall record the number of injured and dead birds.
- 2.6.1.2.3.4 The permittee shall report within 24 hours any instances of dead Steller's eiders found onsite to the USFWS Anchorage Field Office (1-800-272-4174 and shall follow the latest USFWS protocol on recording dead birds. Handling dead or injured eiders is not recommended (Appendix F).
- 2.6.1.3 During each day seafood processing effluent discharge occurs, the permittee shall record the results of the daily residues visual inspections and observations, including the occurrence and estimated surface size and extent of any contiguous films, sheens, or mats of foam in the readily visible receiving water area. The permittee's record must attempt to note where the film, sheen, or mats of foam are originating from (e.g., the facility's own outfall(s), a vessel currently at the facility, or a vessel no longer at the facility). If the permittee observes no films, sheens, or mats of foam, a note of "none" shall be recorded on the daily log (see example Attachment B).
- 2.6.1.4 The permittee shall record observations at various phases of the tide cycle during each calendar month.
- 2.6.1.5 The permittee shall capture representative digital photographs of the sea surface once per month while seafood wastewater discharge is occurring. Photographs shall be of sufficient clarity and detail to support the observations, shall represent what was observed, and must document all positive sea surface or shoreline residues observed during that month. Photographs shall include a digital date and time stamp. The permittee shall make a photograph log with the name of the person taking the photograph and a photograph description. The permittee shall maintain the photographs and the photograph log for three years (see Appendix A, Part 1.11) and make them available to DEC upon request.
- 2.6.1.6 The permittee shall record whether any discharges are occurring from vessels at the facility during the sea surface observations.
- 2.6.1.7 A summary table of surface residues noncompliance shall be included in the Annual Report (Part 2.7.3.2.5).

2.6.2 Seafloor Survey Monitoring Requirements

- 2.6.2.1 This permit does not authorize a zone of deposit.
- 2.6.2.2 The permittee must conduct seafloor surveys following the protocols and methodology established in Appendix E, or another Department-approved methodology, per the schedule in Table 9. Seafloor surveys shall result in mapping any coverage within, or directly adjacent to, all discharge location(s).
- 2.6.2.3 The Department may require additional or expanded seafloor surveys on a case-by-case basis.
- 2.6.2.4 The permittee shall develop a seafloor survey QAPP, as found in Part 2.8.11, that includes a description of the methods and monitoring plan for the seafloor survey area.
- 2.6.2.5 The permittee shall submit a seafloor survey report (if required that year) with the Annual Report and include a copy of the seafloor survey QAPP, a statement that the QAPP has been implemented, and a description of any problems encountered or deviations from the QAPP.

2.6.2.6 Monitoring Schedule

- 2.6.2.6.1 The permittee shall conduct the Seafloor Survey (see Appendix E) during the last quarter of the year (October – December) during the fourth year of permit coverage. If the permittee cannot conduct the survey within that timeframe due to weather, availability of surveyor services (provided there is documented evidence that services were requested greater than three months in advance of when the survey is due to be performed), or other reasons, the permittee shall document the rationale in the seafloor survey report.
- 2.6.2.6.2 Upon finding deposits greater than detectable, the permittee must submit a noncompliance notification report in accordance with Appendix A, Part 3.5 and develop and submit an evaluation of source control and remediation options (described in Appendix E) within 120 days for Department review.

(Table 9: Seafloor Monitoring Schedule
is located on the following page.)

Table 9: Seafloor Monitoring Schedule

Survey Type	Requirement	Sample Location	Survey Frequency and Requirements
Seafloor Survey	Seafloor Survey ^a	Seafloor area	Perform during the fourth year of permit coverage. Evaluation of source control and remediation options developed once. ^b
Pre-Discharge Survey Installation of a new outfall location or facility restarting production after not operating for more than 12 months	Pre-Discharge Seafloor Survey ^c	Proposed Discharge Area	Prior to discharging
Notes:			
<p>a. The seafloor surveys must be performed as established in Appendix E or using other Department- approved methodologies. Use of a modified seafloor survey protocol can only occur upon written request to the Department and after the permittee has received written approval of the modification request.</p> <p>b. The permit does not authorize a zone of deposit. If a deposit is found to be above detectable in any 3-foot by 3-foot square sample plot within the mapped survey area, an evaluation of source control and remediation options is required.</p> <p>c. The permittee must perform the pre-discharge biological survey according to Appendix G.</p>			

2.6.3 Ambient Waterbody Monitoring

- 2.6.3.1 The permittee must conduct receiving water monitoring as specified in Table 10. Monitoring must be at a representative location in the ambient receiving water not under the influence of any facility’s discharge, collected at mid-depth.
- 2.6.3.2 The monitoring report must include the date of monitoring, the pollutant parameter being monitored, the location of where the sample was taken in the receiving water (i.e., latitude/longitude), and the depth the sample was taken, measured at MLLW.
- 2.6.3.3 The permittee shall submit the monitoring results with the application for permit reissuance.

Table 10: Ambient Waterbody Monitoring

Parameter	Units ^a	Sample Frequency ^b
pH	SU	Once per season
Temperature	° C	Once per season
Salinity	ppt	Once per season
Notes:		
<p>a. Units: SU = standard units, °C = degrees Celsius, ppt = parts per thousand.</p> <p>b. Summer season: June 1 – September 30; Winter season: October 1 – May 31.</p>		

2.7 Annual Report.

- 2.7.1 The permittee shall prepare and submit complete, accurate, and timely Annual Reports of noncompliance incidents, production and discharge information, and inspections and monitoring information collected January 1 through December 31 of the previous year.
- 2.7.2 The permittee shall submit the Annual Report no later than March 15th of the year following each year of operation and discharge under the permit. An example Annual Report Form is provided as Attachment D.
- 2.7.3 The permittee shall include the following information in the Annual Report:
- 2.7.3.1 Verification of the permittee's APDES authorization number, company name, owner name, permittee name, the name or title of any duly authorized representative (if there is one), facility name, mailing address, telephone number(s), email address, and facsimile number.
- 2.7.3.2 Summary Reports, as applicable, including:
- 2.7.3.2.1 **Seafood Production Summary Report.** The permittee shall include Attachment D-1, indicating the amounts of seafood processed on each commodity line during the monthly reporting periods as well as pollutant loading results (lbs/1,000 lbs seafood commodity processed) for applicable pollutants (e.g., BOD₅, O&G, TSS).
- 2.7.3.2.2 A copy of the Seafloor Monitoring Report (Part 2.6.2.4).
- 2.7.3.2.2.1 Summary of outfall system inspection (Part 2.1.6).
- 2.7.3.2.3 Summary report of any injured or dead animals observed under Part 2.6.1.2.3.
- 2.7.3.2.4 Summary of incidents of noncompliance. Include the reasons for such noncompliance, corrective actions, and preventative steps taken.
- 2.7.3.2.5 Summary of noncompliance and corrective actions for Sea Surface and Shoreline Monitoring observations, as recorded under Part 2.6.1. The written summary shall contain:
- 2.7.3.2.5.1 A description of each noncompliance and its cause,
- 2.7.3.2.5.2 The period of noncompliance, including exact dates and times,
- 2.7.3.2.5.3 The estimated time noncompliance is expected to continue through if it has not been corrected, and
- 2.7.3.2.5.4 Corrective actions taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
- 2.7.3.2.6 Summary of any occurrences of leaks or breaks in the refrigeration/freezer systems that led to discharges to receiving waters, and how the accidental or emergency release was reported. Provide a summary of the type of refrigerant discharged along with the

corresponding number of times discharged, approximate number of pounds discharged, and accompanying pH for each discharge event. The purposeful discharge of these substances without first monitoring the pH is prohibited.

- 2.7.3.3 A list of chemicals, disinfectants, cleaners, biocides, and food processing additives (salts, acids, bases, enzymes, etc.) that are used and discharged during the annual reporting period.
- 2.7.3.4 If any substances found in Part 2.7.3.3 are not used per the manufacturer's recommended use and application rates, if any, the permittee shall provide the following information:
 - 2.7.3.4.1 Product intended use,
 - 2.7.3.4.2 Total annual amount used,
 - 2.7.3.4.3 Dilution ratio during use, if any.

2.8 Quality Assurance Project Plan (QAPP)

- 2.8.1 The permittee shall operate in accordance with the QAPP for all permit-required monitoring and any additional voluntary monitoring performed.
- 2.8.2 The permittee must develop, implement, and maintain a facility-specific QAPP for all monitoring required by this permit. The permittee must develop and implement the QAPP within 60 days of receiving authorization under this general permit, except as established in Part 2.8.11, and may modify any existing QAPP under this Part. The permittee must follow all procedures in previous QAPPs until the permittee has implemented the new QAPP.
- 2.8.3 A permittee shall document annual review of their QAPP. The permittee shall review the QAPP whenever process changes or changes in monitoring plans occur.
- 2.8.4 The permittee must amend the facility-specific QAPP whenever sample collection, sample analysis, monitoring parameter(s), or other procedures addressed by the QAPP are modified.
- 2.8.5 The QAPP shall be designed to assist in planning for the collection and analysis of effluent and receiving water samples in support of the permit and to help explain data anomalies whenever they occur.
- 2.8.6 The permittee may use the generic DEC QAPP as a template to develop a facility-specific QAPP. Some facility-specific information is required in order to complete the generic DEC QAPP, located at <https://dec.alaska.gov/water/water-quality/quality-assurance/>.
- 2.8.7 Throughout all sample collection and analysis activities, the permittee shall use DEC-approved Quality Assurance/Quality Control and chain-of-custody procedures, as described in the *Quality Assurance Project Plan Standard* (EPA/CIO 2105-S-02.1, August 2023) at https://www.epa.gov/system/files/documents/2024-04/quality_assurance_project_plan_standard.pdf and *Guidance for Quality Assurance Project Plans* (EPA/QA/G-5, December 2002) at <https://www.epa.gov/sites/default/files/2019-03/documents/g5-final.pdf>. The permittee must prepare the QAPP in the format specified in these documents.

- 2.8.8 A copy of the QAPP must be kept onsite and made available to DEC upon request.
- 2.8.9 At a minimum, the QAPP shall include:
- 2.8.9.1 Details on number of samples, type of sample containers, preservation of samples, holding times, analytical methods, analytical detection and quantitation limits for each target compound, type and number of quality assurance field samples, precision and accuracy requirements, sample preparation requirements, sample shipping methods, and laboratory data delivery requirements.
 - 2.8.9.2 Monitoring schedule and shipping requirements to ensure samples arrive within holding times.
 - 2.8.9.3 Instructions for performing repeat sampling (within the required sampling period) if samples do not arrive at the lab within required holding times.
 - 2.8.9.4 Maps indicating the location of each sampling point.
 - 2.8.9.5 Qualification and training of monitoring personnel, including personnel training and review logs.
 - 2.8.9.6 Name, address, and telephone number of all laboratories used by or proposed to be used by the permittee.
 - 2.8.9.7 A monitoring plan for washed mince / washed paste, if processed at the facility, that:
 - 2.8.9.7.1 Identifies how the permittee determines when each washed mince / washed paste seafood production cycle is discharging to determine representative sample collection.
 - 2.8.9.7.2 Documents methods to ensure the internal monitoring location's sampling is representative of the waste stream flow.
- 2.8.10 **Sea Surface and Shoreline Monitoring.** The permittee shall develop specific QAPP monitoring instructions for the observer to document the occurrences and estimate the size of any films, sheens, or mats of foam.
- 2.8.11 **Seafloor Survey QAPP** (Part 2.6.2.3). The permittee shall ensure that the Seafloor Survey QAPP is developed at least 30 days prior to the seafloor survey being performed. The Seafloor Survey QAPP shall ensure that adequate documentation is available to allow reconstruction of a seafloor survey from field records and notes, survey plans, and still and video photography. At a minimum, the Seafloor Survey QAPP shall include:
- 2.8.11.1 Delivery and archiving of seafloor survey results using field records and notes, survey plans, digital images, and video photography.
 - 2.8.11.2 Establishing survey location controls.
 - 2.8.11.3 Measuring seafood waste thickness.
 - 2.8.11.4 Determining percent seafood waste coverage.

2.8.11.5 Photographic procedures.

2.8.11.6 Measuring water depth and tide stage.

2.9 Best Management Practices (BMP) Plan.

2.9.1 The permittee shall develop, implement, and operate in accordance with a BMP Plan within 60 days of obtaining permit coverage.

2.9.2 The permittee shall review the BMP Plan whenever process changes occur. At a minimum, the permittee shall document annual review of the BMP Plan.

2.9.3 Under the BMP Plan, the permittee shall ensure the proper operation and maintenance of the facility and the control of the discharge or potential release of pollutants to the receiving water.

2.9.4 The permittee shall develop the BMP Plan in accordance with good engineering practices and the objectives described herein. The plan shall be consistent with the general guidance contained in the publication entitled "Guidance Manual for Developing Best Management Practices" (EPA 1993) or its subsequent revisions and "Seafood Processing Handbook for Materials Accounting Audits and Best Management Practices Plans, EPA and Bottomline Performance" (1995).

2.9.5 The BMP Plan must include the following information and management practices at a minimum:

2.9.5.1 Name and physical location of the seafood processing facility.

2.9.5.2 Facility plans, drawings, or maps.

2.9.5.3 **Statement of BMP Policy.** The BMP Plan shall include a statement of management commitment to provide the necessary financial, staff, equipment, and training resources to develop and implement the BMP Plan on a continuing basis.

2.9.5.4 **Statement of BMP Purpose.** The BMP Plan's purpose statement shall include a statement consistent with the following:

2.9.5.4.1 Through implementation of a BMP Plan, the purpose of this plan is to:

2.9.5.4.1.1 Prevent and minimize the generation and discharge of wastes and pollutants from the facility to receiving water.

2.9.5.4.1.2 Prevent or reduce pollution at the source.

2.9.5.4.1.3 Recycle potential pollutants in an environmentally safe manner whenever feasible.

2.9.5.4.1.4 Ensure the permittee discharges pollutants into the environment in such a way as to have a minimal environmental impact.

2.9.5.5 **Statement of BMP Objectives.** The BMP Plan shall be consistent with the following objectives for the reduction and control of pollutants in waste and wastewaters resulting from seafood processing:

- 2.9.5.5.1 Reduce and minimize the number and quantity of material generated, discharged, or potentially discharged at the facility to reduce pollutant loading by managing waste streams and implementing source control strategies where practicable. Strategies may include by-product production strategies or pollutant removal strategies where no product is produced but reduction of pollutant loading occurs.
- 2.9.5.5.2 Establish or reference standard operating procedures for the proper operation and maintenance of pollution control systems, in accordance with good engineering practices.
- 2.9.5.5.3 The permittee shall examine each facility component or system for its waste minimization opportunities and its potential for pollutant loading to waters of the U.S., such as:
 - 2.9.5.5.3.1 Removing pollutant loading earlier in process waste stream transport,
 - 2.9.5.5.3.2 Evaluating and implementing waste and wastewater treatment options,
 - 2.9.5.5.3.3 Preventing equipment failure or improper operation, and
 - 2.9.5.5.3.4 Examining all normal operations and ancillary activities.
- 2.9.5.6 **Risk Identification and Assessment.** The BMP Plan must ensure the facility performs risk assessment by implementing procedures for:
 - 2.9.5.6.1 Reviewing existing materials and plans as a source of information to ensure consistency and to eliminate duplication.
 - 2.9.5.6.2 Characterizing actual and potential pollutant sources that might be subject to release.
 - 2.9.5.6.3 Evaluating potential pollutants based on the hazards they present to human health and the environment.
 - 2.9.5.6.4 Identifying pathways through which pollutants identified at the site might reach environmental and human receptors.
 - 2.9.5.6.5 Prioritizing prevention of potential releases.
- 2.9.5.7 **Specific Management Practices and Standard Operating Procedures.** These include but are not limited to:
 - 2.9.5.7.1 The modification of equipment, facilities, technology, processes, and procedures.
 - 2.9.5.7.2 Verification that the permittee obtained necessary DEC engineering review for any proposed changes to the waste treatment systems.
 - 2.9.5.7.3 The improvement in management, inventory control, materials handling, or general operational phases of the facility.

- 2.9.5.7.4 Reducing or eliminating any discharge of wastes that have the potential to collect and foul any set or drift nets used in subsistence or commercial fisheries in nearby traditional use areas.
- 2.9.5.7.5 Descriptions and methods for the proper operation and maintenance of the screening system(s) and outfall pumps.
- 2.9.5.7.6 For the monitoring schedule established in Part 2.5, develop techniques to manage potential and planned discharges, including retort cooling, air scrubber, and refrigeration and freezer system wastewaters. BMPs shall address times to monitor ammonia, pH, and temperature during routine maintenance of the refrigeration and freezer systems (e.g., purging air and/or water, adding ammonia to inactive lines, repair, etc.) and during routine cleaning of air scrubber/ammonia stripping systems if discharge from these activities occurs to waters of the U.S.
- 2.9.5.7.7 Materials accounting of the inputs (raw seafood products, chemicals, etc.), processes, and outputs (seafood processing wastes and wastewaters, chemicals, etc.) of the facility as submitted with the NOI and other information required in Part 1.6. Materials accounting is used to trace the inflow (i.e., process water + transfer water + whole seafood product) through the seafood processing steps and outflow (i.e., process wastewater + non-process wastewater + marketed seafood product + by-products + process wastes) and to establish quantities of these components. Identifying and measuring the key components for a process is the basis for conducting materials accounting audits.
- 2.9.5.7.8 Minimization and plans to ensure that chlorine, other disinfectants, degreasers, defoaming agents, or other chemical products used at the facility will not cause exceedances of the WQS.
- 2.9.5.7.9 Descriptions and methods for each facility component or system that shall be examined for its pollutant minimization opportunities and its potential for causing a release of significant amounts of pollutants (which includes seafood waste and wastewaters) to receiving waters due to the failure or improper operation of equipment. The examination shall include all normal operations, including raw material and product storage areas, in-plant conveyance of product, processing and product handling areas, by-product production areas, loading or unloading operations, wastewater treatment areas, sludge and waste discharge areas, floor drains, and refueling areas.
- 2.9.5.7.10 Description of the equipment which shall be examined for potential failure and reporting of any resulting release of untreated pollutants to receiving waters. Provision shall be made for emergency measures to be taken in such an event.
- 2.9.5.7.11 Description of the practices and training staff will receive to ensure that waters coming into contact with seafood are properly routed through the seafood waste treatment

system or otherwise treated to meet the requirements of Part 2.1.5.1. This includes a copy of the employee training log(s).

- 2.9.5.7.12 Methods to prevent, treat, or minimize the generation and discharge of pollutants in by-product production effluents, including stickwater, at the source to the greatest extent practicable. Description and methods for backup disposal treatment method(s) if by-product wastewater treatment system fails (Part 2.4.3). The permittee shall recycle and treat stickwater to the greatest extent practicable, in an environmentally safe manner, whenever feasible.
- 2.9.5.7.13 Pollution prevention and minimization measures at the point(s) of raw seafood transfer to the processing facility.
- 2.9.5.7.14 Methods to examine facility cleaning and sanitizing practices and, where appropriate, select cleaning and disinfectant chemicals and compounds that minimize the addition of nitrogen and phosphorous-based chemical pollutants to the wastewater discharge.
- 2.9.5.7.15 Applying chemical cleaning compounds and disinfectants in accordance with manufacturer instructions and suggested application rates.
- 2.9.5.7.16 Proper procedures for operation, maintenance, and purging of refrigerant and freezer systems where there is a discharge or potential discharge to waters of the U.S. If the permittee references other documents to comply with this requirement, the permittee shall keep a copy of the document with this permit's BMP Plan. The BMP Plan or other documents shall include and implement:
 - 2.9.5.7.16.1 Methods to direct purged wastewaters to the seafood processing waste treatment system.
 - 2.9.5.7.16.2 The facility's approach for minimizing and treating discharged refrigerants, including how maintenance and purging practices are to be performed at the facility and how repair-related wastewaters are handled and treated prior to discharge.
 - 2.9.5.7.16.3 How the facility plans to mitigate and report accidental or emergency releases which are not authorized by the permit.
- 2.9.5.7.17 Methods developed and implemented to ensure attractive nuisance conditions are not created and seafood processing wastes and wastewaters do not cause nuisance or objectionable conditions. Response procedures and corrective actions if nuisance or objectionable conditions are reported to the permittee (Part 2.1.9).
- 2.9.5.7.18 Practices to minimize incidental foam and scum produced by the discharge of seafood waste and wastewaters, as well as seafood catch transfer water, to the extent practicable (Part 2.5.2), including the modification of equipment, facilities, technology, processes, and discharge procedures to be used to decrease the formation of foam and scum.

- 2.9.5.7.19 **Good housekeeping.** Describe the facility objectives and maintenance of a clean, orderly work environment. Maintaining an orderly facility means that materials and equipment are neat and well-kept to prevent untreated pollutant releases to the environment. If the permittee references other documents to comply with this requirement, the permittee shall keep a copy of the document with this permit's BMP Plan.
- 2.9.5.7.20 **Preventative maintenance.** Describe maintenance which includes periodically inspecting, maintaining, and testing seafood processing facility equipment and systems to uncover conditions that can cause breakdowns or failures. Preventative maintenance focuses on preventing untreated pollutant releases to the receiving water. If the permittee references other documents or SOPs to comply with this requirement, the permittee shall keep a copy of the document(s) and/or SOPs with this permit's BMP Plan.
- 2.9.5.7.21 Documentation of inspection, record keeping, and employee training pertaining to the BMP Plan. This includes a copy of the employee training log(s).
- 2.9.5.7.22 **Fuel Transfer.** Provide a hyperlink to the facility's Facility Response Plan (FRP) or describe vessel fuel-transfer protocols and ensure that they comply with all federal and state regulations for the prevention of, preparedness for, and response to oil discharges, including:
- 2.9.5.7.22.1 Spill response procedures, and
 - 2.9.5.7.22.2 Storage of adequate oil and fuel clean-up equipment at the facility, on-board vessels, and at fuel transfer locations.
- 2.9.5.7.23 Development of educational materials to provide to vessels discharging fish hold water, live tank water, refrigerated seawater, brine, or other effluents at the facility. Topics to be covered could include, but are not limited to:
- 2.9.5.7.23.1 Minimizing washing any residual solids into receiving waters while dockside, pier-side, or stationary.
 - 2.9.5.7.23.2 Routing wastewaters accepted into the permittee's facility to the seafood waste treatment system or other treatment systems prior to discharge to remove solids.
 - 2.9.5.7.23.3 Following the manufacturer's directions and disposal recommendations while using degreasers and defoamers. Using non-toxic degreasers and defoamers.
 - 2.9.5.7.23.4 Selecting soaps and detergents that are phosphate-free, non-toxic, and do not lead to extreme shifts in receiving water pH. Using soaps and detergents that are free from toxic and bioaccumulative compounds.

- 2.9.5.7.23.5 Not discharging or placing any toxic or hazardous materials or related residuals into vessel discharge systems (e.g., laundry units, kitchen sinks, dishwashers, drains, sinks, showers, bath, etc.).
- 2.9.5.7.23.6 Not discharging or placing unused soaps, detergents, or pharmaceuticals into the discharge systems (e.g., laundry units, kitchen sinks, dishwashers, drains, sinks, showers, bath, etc.).
- 2.9.5.7.23.7 Minimizing the discharge of bilge water within the critical habitat area, unless it is for documented safety reasons, and using oil/water separators prior to discharge.

2.9.6 **BMP Plan Review.** The BMP Plan shall include the following provisions concerning its review:

- 2.9.6.1 **Annual Review.** At a minimum, the facility manager and appropriate staff shall review the BMP Plan annually.
- 2.9.6.2 Include a statement that a review has been completed and that the BMP Plan fulfills the requirements set forth in this permit. The facility manager shall sign and date the statement.
- 2.9.6.3 The permittee shall review and revise, if necessary, the BMP Plan whenever there is a change in the seafood processing facility or in the operation of the seafood processing facility which materially increases the generation of pollutants and their release or potential release to the receiving water.
- 2.9.6.4 At any time, if the BMP Plan proves to be ineffective in achieving the general objective of preventing and minimizing the generation of pollutants and their release, including but not limited to the situations referenced in Part 2.1.5.5 and Part 2.6.2.6.2, the BMP Plan shall be modified to incorporate revised BMP requirements.

2.9.7 **BMP Plan Availability.** The permittee shall maintain a copy of the BMP Plan at the seafood processing facility and shall make the plan available to DEC upon request.

Appendix A – Standard Conditions: APDES Permit Nondomestic Discharges

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Appendix A of the permit contains standard regulatory language that must be included in all APDES permits. These requirements are based on the regulations and cannot be challenged in the context of an individual APDES permit action. The standard regulatory language covers requirements such as monitoring, recording, reporting requirements, compliance responsibilities, and other general requirements. Appendix A, Standard Conditions is an integral and enforceable part of the permit. Failure to comply with a Standard Condition in this Appendix constitutes a violation of the permit and is subject to enforcement.

1.0 Standard Conditions Applicable to All Permits

1.1 Contact Information and Addresses

1.1.1 Permitting Program

Documents, reports, and plans required under the permit and Appendix A are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: DEC.WQPermit@alaska.gov

1.1.2 Compliance and Enforcement Program

Documents and reports required under the permit and Appendix A relating to compliance are to be sent to the following address:

State of Alaska
Department of Environmental Conservation
Division of Water
Compliance and Enforcement Program
555 Cordova Street
Anchorage, Alaska 99501
Telephone Nationwide (877) 569-4114
Anchorage Area / International (907) 269-4114
Fax (907) 269-4604
Email: dec-wqreporting@alaska.gov

1.2 Duty to Comply

A permittee shall comply with all conditions of the permittee's APDES permit. Any permit noncompliance constitutes a violation of 33 U.S.C 1251-1387 (Clean Water Act) and state law and is grounds for enforcement action including termination, revocation and reissuance, or modification of a permit, or denial of a permit renewal application. A permittee shall comply with effluent standards or prohibitions established under 33 U.S.C. 1317(a) for toxic pollutants within the time provided in the regulations that establish those effluent standards or prohibitions even if the permit has not yet been modified to incorporate the requirement.

1.3 Duty to Reapply

If a permittee wishes to continue an activity regulated by this permit after its expiration date, the permittee must apply for and obtain a new permit. In accordance with 18 AAC 83.105(b), a permittee with a currently effective permit shall reapply by submitting a new application at least 180 days before the existing permit expires, unless the Department has granted the permittee permission to submit an application on a later date. However, the Department will not grant permission for an application to be submitted after the expiration date of the existing permit.

1.4 Need to Halt or Reduce Activity Not a Defense

In an enforcement action, a permittee may not assert as a defense that compliance with the conditions of the permit would have made it necessary for the permittee to halt or reduce the permitted activity.

1.5 Duty to Mitigate

A permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit that has a reasonable likelihood of adversely affecting human health or the environment.

1.6 Proper Operation and Maintenance

1.6.1 A permittee shall at all times properly operate and maintain all facilities and systems of treatment and control and related appurtenances that the permittee installs or uses to achieve compliance with the conditions of the permit. The permittee's duty to operate and maintain properly includes using adequate laboratory controls and appropriate quality assurance procedures. However, a permittee is not required to operate back-up or auxiliary facilities or similar systems that a permittee installs unless operation of those facilities is necessary to achieve compliance with the conditions of the permit.

1.6.2 Operation and maintenance records shall be retained and made available at the site.

1.7 Permit Actions

A permit may be modified, revoked and reissued, or terminated for cause as provided in 18 AAC 83.130. If a permittee files a request to modify, revoke and reissue, or terminate a permit, or gives notice of planned changes or anticipated noncompliance, the filing or notice does not stay any permit condition.

1.8 Property Rights

A permit does not convey any property rights or exclusive privilege.

1.9 Duty to Provide Information

A permittee shall, within a reasonable time, provide to the Department any information that the Department requests to determine whether a permittee is in compliance with the permit, or whether cause exists to modify, revoke and reissue, or terminate the permit. A permittee shall also provide to the Department, upon request, copies of any records the permittee is required to keep under the permit.

1.10 Inspection and Entry

A permittee shall allow the Department, or an authorized representative, including a contractor acting as a representative of the Department, at reasonable times and on presentation of credentials establishing authority and any other documents required by law, to:

1.10.1 Enter the premises where a permittee's regulated facility or activity is located or conducted, or where permit conditions require records to be kept;

- 1.10.2 Have access to and copy any records that permit conditions require the permittee to keep;
- 1.10.3 Inspect any facilities, equipment, including monitoring and control equipment, practices, or operations regulated or required under a permit; and
- 1.10.4 Sample or monitor any substances or parameters at any location for the purpose of assuring permit compliance or as otherwise authorized by 33 U.S.C. 1251-1387 (Clean Water Act).

1.11 Monitoring and Records

A permittee must comply with the following monitoring and recordkeeping conditions:

- 1.11.1 Samples and measurements taken for the purpose of monitoring must be representative of the monitored activity.
- 1.11.2 The permittee shall retain records in Alaska of all monitoring information for at least three years, or longer at the Department's request at any time, from the date of the sample, measurement, report, or application. Monitoring records required to be kept include:
 - 1.11.2.1 All calibration and maintenance records,
 - 1.11.2.2 All original strip chart recordings or other forms of data approved by the Department for continuous monitoring instrumentation,
 - 1.11.2.3 All reports required by a permit,
 - 1.11.2.4 Records of all data used to complete the application for a permit,
 - 1.11.2.5 Field logbooks or visual monitoring logbooks,
 - 1.11.2.6 Quality assurance chain of custody forms,
 - 1.11.2.7 Copies of discharge monitoring reports, and
 - 1.11.2.8 A copy of this APDES permit.
- 1.11.3 Records of monitoring information must include:
 - 1.11.3.1 The date, exact place, and time of any sampling or measurement;
 - 1.11.3.2 The name(s) of any individual(s) who performed the sampling or measurement(s);
 - 1.11.3.3 The date(s) and time any analysis was performed;
 - 1.11.3.4 The name(s) of any individual(s) who performed any analysis;
 - 1.11.3.5 Any analytical technique or method used; and
 - 1.11.3.6 The results of the analysis.

1.11.4 Monitoring Procedures

Analyses of pollutants must be conducted using test procedures approved under 40 CFR Part 136, adopted by reference at 18 AAC 83.010, for pollutants with approved test procedures, and using test procedures specified in the permit for pollutants without approved methods.

1.12 Signature Requirement and Penalties

- 1.12.1 Any application, report, or information submitted to the Department in compliance with a permit requirement must be signed and certified in accordance with 18 AAC 83.385. Any person who knowingly makes any false material statement, representation, or certification in any application, record, report, or other document filed or required to be maintained under a permit, or who knowingly falsifies, tampers with, or renders inaccurate any monitoring device or method required to be maintained under this permit shall, upon conviction, be subject to penalties under 33 U.S.C. 1319(c)(4), AS 12.55.035(c)(1)(B), (c)(2) and (c)(3), and AS 46.03.790(g).
- 1.12.2 In accordance with 18 AAC 83.385, an APDES permit application must be signed as follows:
 - 1.12.2.1 For a corporation, a responsible corporate officer shall sign the application; in this subsection, a responsible corporate officer means:
 - 1.12.2.1.1 A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation; or
 - 1.12.2.1.2 The manager of one of more manufacturing, production, or operating facilities, if
 - 1.12.2.1.2.1 The manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;
 - 1.12.2.1.2.2 The manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and
 - 1.12.2.1.2.3 Authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
 - 1.12.2.2 For a partnership or sole proprietorship, by the general partner or the proprietor, respectively, shall sign the application.
 - 1.12.2.3 For a municipality, state, federal, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means:
 - 1.12.2.3.1 The chief executive officer of the agency; or
 - 1.12.2.3.2 A senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.
- 1.12.3 Any report required by an APDES permit, and a submittal with any other information requested by the Department, must be signed by a person described in Appendix A, Part 1.12.2, or by a duly authorized representative of that person. A person is a duly authorized representative only if:
 - 1.12.3.1 The authorization is made in writing by a person described in Appendix A, Part 1.12.2;

- 1.12.3.2 The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent, or position of equivalent responsibility; or an individual or position having overall responsibility for environmental matters for the company; and
- 1.12.3.3 The written authorization is submitted to the Department to the Permitting Program address in Appendix A, Part 1.1.1.
- 1.12.4 If an authorization under Appendix A, Part 1.12.3 is no longer effective because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Appendix A, Part 1.12.3 must be submitted to the Department before or together with any report, information, or application to be signed by an authorized representative.
- 1.12.5 Any person signing a document under Appendix A, Part 1.12.2 or Part 1.12.3 shall certify as follows:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

1.13 Proprietary or Confidential Information

- 1.13.1 A permit applicant or permittee may assert a claim of confidentiality for proprietary or confidential business information by stamping the words "confidential business information" on each page of a submission containing proprietary or confidential business information. The Department will treat the stamped submissions as confidential if the information satisfies the test in 40 CFR §2.208, adopted by reference at 18 AAC 83.010, and is not otherwise required to be made public by state law.
- 1.13.2 A claim of confidentiality under Appendix A, Part 1.13.1 may not be asserted for the name and address of any permit applicant or permittee, a permit application, a permit, effluent data, sewage sludge data, and information required by APDES or NPDES application forms provided by the Department, whether submitted on the forms themselves or in any attachments used to supply information required by the forms.
- 1.13.3 A permittee's claim of confidentiality authorized under Appendix A, Part 1.13.1 is not waived if the Department provides the proprietary or confidential business information to the EPA or to other agencies participating in the permitting process. The Department will supply any information obtained or used in the administration of the state APDES program to the EPA upon request under 40 CFR §123.41, as revised as of July 1, 2005. When providing information submitted to the Department with a claim of confidentiality to the EPA, the Department will notify the EPA of the confidentiality claim. If the Department provides the EPA information that is not claimed to be confidential, the EPA may make the information available to the public without further notice.

1.14 Oil and Hazardous Substance Liability

Nothing in this permit shall be construed to preclude the institution of any action or relieve a permittee from any responsibilities, liabilities, or penalties to which the permittee is or may be subject to under state laws addressing oil and hazardous substances.

1.15 Cultural and Paleontological Resources

If cultural or paleontological resources are discovered because of this disposal activity, work that would disturb such resources is to be stopped, and the Office of History and Archaeology, a Division of Parks and Outdoor Recreation of the Alaska Department of Natural Resources (<https://dnr.alaska.gov/parks/oha/index.htm>), is to be notified immediately at (907) 269-8721.

1.16 Fee

A permittee must pay the appropriate permit fee described in 18 AAC 72.

1.17 Other Legal Obligations

This permit does not relieve the permittee from the duty to obtain any other necessary permits from the Department or from other local, state, or federal agencies and to comply with the requirements contained in any such permits. All activities conducted and all plan approvals implemented by the permittee pursuant to the terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.0 Special Reporting Obligations

2.1 Planned Changes

2.1.1 The permittee shall give notice to the Department as soon as possible of any planned physical alteration or addition to the permitted facility if:

2.1.1.1 The alteration or addition may make the facility a “new source” under one or more of the criteria in 18 AAC 83.990(44); or

2.1.1.2 The alteration or addition could significantly change the nature or increase the quantity of pollutants discharged if those pollutants are not subject to effluent limitations in the permit or to notification requirements under 18 AAC 83.610.

2.1.2 If the proposed changes are subject to plan review, then the plans must be submitted at least 30 days before implementation of changes (see 18 AAC 15.020 and 18 AAC 72 for plan review requirements). Written approval is not required for an emergency repair or routine maintenance.

2.1.3 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.2 Anticipated Noncompliance

2.2.1 A permittee shall give seven days’ notice to the Department before commencing any planned change in the permitted facility or activity that may result in noncompliance with permit requirements.

2.2.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.3 Transfers

- 2.3.1 A permittee may not transfer a permit for a facility or activity to any person except after notice to the Department in accordance with 18 AAC 83.150. The Department may modify or revoke and reissue the permit to change the name of the permittee and incorporate such other requirements under 33 U.S.C. 1251-1387 (Clean Water Act) or state law.
- 2.3.2 Written notice must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.4 Compliance Schedules

- 2.4.1 A permittee must submit progress or compliance reports on interim and final requirements in any compliance schedule of a permit no later than 14 days following the scheduled date of each requirement.
- 2.4.2 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.5 Corrective Information

- 2.5.1 If a permittee becomes aware that it failed to submit a relevant fact in a permit application or submitted incorrect information in a permit application or in any report to the Department, the permittee shall promptly submit the relevant fact or the correct information.
- 2.5.2 Information must be sent to the Permitting Program address in Appendix A, Part 1.1.1.

2.6 Bypass of Treatment Facilities

2.6.1 Prohibition of Bypass

Bypass is prohibited. The Department may take enforcement action against a permittee for any bypass, unless:

- 2.6.1.1 The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
- 2.6.1.2 There were no feasible alternatives to the bypass, including use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. However, this condition is not satisfied if the permittee, in the exercise of reasonable engineering judgment, should have installed adequate back-up equipment to prevent a bypass that occurred during normal periods of equipment downtime or preventive maintenance; and
- 2.6.1.3 The permittee provides notice to the Department of a bypass event in the manner, as appropriate, under Appendix A, Part 2.6.2.

2.6.2 Notice of bypass

- 2.6.2.1 For an anticipated bypass, the permittee submits notice at least 10 days before the date of the bypass. The Department may approve an anticipated bypass, after considering its adverse effects, if the Department determines that it will meet the conditions of Appendix A, Parts 2.6.1.1 and 2.6.1.2.
- 2.6.2.2 For an unanticipated bypass, the permittee submits 24-hour notice, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting.

2.6.2.3 Written notice must be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

2.6.3 Notwithstanding Appendix A, Part 2.6.1, a permittee may allow a bypass that:

2.6.3.1 Does not cause an effluent limitation to be exceeded, and

2.6.3.2 Is for essential maintenance to assure efficient operation.

2.7 Upset Conditions

2.7.1 In any enforcement action for noncompliance with technology-based permit effluent limitations, a permittee may claim upset as an affirmative defense. A permittee seeking to establish the occurrence of an upset has the burden of proof to show that the requirements of Appendix A, Part 2.7.2 are met.

2.7.2 To establish the affirmative defense of upset, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence that:

2.7.2.1 An upset occurred and the permittee can identify the cause or causes of the upset;

2.7.2.2 The permitted facility was at the time being properly operated;

2.7.2.3 The permittee submitted 24-hour notice of the upset, as required in 18 AAC 83.410(f) and Appendix A, Part 3.4, Twenty-four Hour Reporting; and

2.7.2.4 The permittee complied with any mitigation measures required under 18 AAC 83.405(e) and Appendix A, Part 1.5, Duty to Mitigate.

2.7.3 Any determination made in administrative review of a claim that noncompliance was caused by upset, before an action for noncompliance is commenced, is not final administrative action subject to judicial review.

2.8 Existing Manufacturing, Commercial, Mining, and Silvicultural Discharges

2.8.1 In addition to the reporting requirements under 18 AAC 83.410, an existing manufacturing, commercial, mining, and silvicultural discharger shall notify the Department as soon as that discharger knows or has reason to believe that any activity has occurred or will occur that would result in:

2.8.1.1 The discharge, on a routine or frequent basis, of any toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

2.8.1.1.1 One hundred micrograms per liter (100 µg/L);

2.8.1.1.2 Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile, 500 micrograms per liter (500 µg/L) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol, and one milligram per liter (1 mg/L) for antimony;

2.8.1.1.3 Five times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or

2.8.1.1.4 The level established by the Department in accordance with 18 AAC 83.445.

2.8.1.2 Any discharge, on a non-routine or infrequent basis, of a toxic pollutant that is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

2.8.1.2.1 Five hundred micrograms per liter (500 µg/L);

- 2.8.1.2.2 One milligram per liter (1 mg/L) for antimony;
- 2.8.1.2.3 Ten times the maximum concentration value reported for that pollutant in the permit application in accordance with 18 AAC 83.310(c)-(g); or
- 2.8.1.2.4 The level established by the Department in accordance with 18 AAC 83.445.

3.0 Monitoring, Recording, and Reporting Requirements

3.1 Representative Sampling

A permittee must collect effluent samples from the effluent stream after the last treatment unit before discharge into the receiving waters. Samples and measurements must be representative of the volume and nature of the monitored activity or discharge.

3.2 Reporting of Monitoring Results

At intervals specified in the permit, monitoring results must be reported on the EPA discharge monitoring report (DMR) form, as revised as of March 1999, adopted by reference.

- 3.2.1 Monitoring results shall be summarized each month on the DMR or an approved equivalent report. The permittee must submit reports monthly postmarked by the 15th day of the following month.
- 3.2.2 The permittee must sign and certify all DMRs and all other reports in accordance with the requirements of Appendix A, Part 1.12, Signature Requirement and Penalties. All signed and certified legible original DMRs and all other documents and reports must be submitted to the Department at the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.
- 3.2.3 If, during the period when this permit is effective, the Department makes available electronic reporting, the permittee may, as an alternative to the requirements of Appendix A, Part 3.2.2, submit monthly DMRs electronically by the 15th day of the following month in accordance with guidance provided by the Department. The permittee must certify all DMRs and other reports, in accordance with the requirements of Appendix A, Part 1.12, Signature Requirement and Penalties. The permittee must retain the legible originals of these documents and make them available to the Department upon request.

3.3 Additional Monitoring by Permittee

If the permittee monitors any pollutant more frequently than the permit requires using test procedures approved in 40 CFR Part 136, adopted by reference at 18 AAC 83.010, or as specified in this permit, the results of that additional monitoring must be included in the calculation and reporting of the data submitted in the DMR required by Appendix A, Part 3.2. All limitations that require averaging of measurements must be calculated using an arithmetic means unless the Department specifies another method in the permit. Upon request by the Department, the permittee must submit the results of any other sampling and monitoring regardless of the test method used.

3.4 Twenty-four Hour Reporting

A permittee shall report any noncompliance event that may endanger health or the environment as follows:

3.4.1 A report must be made:

3.4.1.1 Orally within 24 hours after the permittee becomes aware of the circumstances, and

3.4.1.2 In writing within five days after the permittee becomes aware of the circumstances.

3.4.2 A report must include the following information:

3.4.2.1 A description of the noncompliance and its causes, including the estimated volume or weight and specific details of the noncompliance;

3.4.2.2 The period of noncompliance, including exact dates and times;

3.4.2.3 If the noncompliance has not been corrected, a statement regarding the anticipated time the noncompliance is expected to continue; and

3.4.2.4 Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.

3.4.3 An event that must be reported within 24 hours includes:

3.4.3.1 An unanticipated bypass that exceeds any effluent limitation in the permit (see Appendix A, Part 2.6, Bypass of Treatment Facilities).

3.4.3.2 An upset that exceeds any effluent limitation in the permit (see Appendix A, Part 2.7, Upset Conditions).

3.4.3.3 A violation of a maximum daily discharge limitation for any of the pollutants listed in the permit as requiring 24-hour reporting.

3.4.4 The Department may waive the written report on a case-by-case basis for reports under Appendix A, Part 3.4 if the oral report has been received within 24 hours of the permittee becoming aware of the noncompliance event.

3.4.5 The permittee may satisfy the written reporting submission requirements of Appendix A, Part 3.4 by submitting the written report via e-mail, if the following conditions are met:

3.4.5.1 The Noncompliance Notification Form or equivalent form is used to report the noncompliance;

3.4.5.2 The written report includes all the information required under Appendix A, Part 3.4.2;

3.4.5.3 The written report is properly certified and signed in accordance with Appendix A, Parts 1.12.3 and 1.12.5.;

3.4.5.4 The written report is scanned as a PDF (portable document format) document and transmitted to the Department as an attachment to the e-mail; and

3.4.5.5 The permittee retains in the facility file the original signed and certified written report and a printed copy of the conveying email.

3.4.6 The e-mail and PDF written report will satisfy the written report submission requirements of this permit provided the e-mail is received by the Department within five days after the time the permittee becomes aware of the noncompliance event and the e-mail and written report satisfy the criteria of Part 3.4.5. The e-mail address to report noncompliance is:

dec-wqreporting@alaska.gov

3.5 Other Noncompliance Reporting

A permittee shall report all instances of noncompliance not required to be reported under Appendix A, Parts 2.4 (Compliance Schedules), 3.3 (Additional Monitoring by Permittee), and 3.4 (Twenty-four Hour Reporting) at the time the permittee submits monitoring reports under Appendix A, Part 3.2 (Reporting of Monitoring Results). A report of noncompliance under this part must contain the information listed in Appendix A, Part 3.4.2 and be sent to the Compliance and Enforcement Program address in Appendix A, Part 1.1.2.

4.0 Penalties for Violations of Permit Conditions

Alaska laws allow the State to pursue both civil and criminal actions concurrently. The following is a summary of Alaska law. Permittees should read the applicable statutes for further substantive and procedural details.

4.1 Civil Action

Under AS 46.03.760(e), a person who violates or causes or permits to be violated a regulation, a lawful order of the Department, or a permit, approval, or acceptance, or term or condition of a permit, approval or acceptance issued under the program authorized by AS 46.03.020 (12) is liable, in a civil action, to the State for a sum to be assessed by the court of not less than \$500 nor more than \$100,000 for the initial violation, nor more than \$10,000 for each day after that on which the violation continues, and that shall reflect, when applicable:

- 4.1.1 Reasonable compensation in the nature of liquated damages for any adverse environmental effects caused by the violation, that shall be determined by the court according to the toxicity, degradability, and dispersal characteristics of the substance discharged, the sensitivity of the receiving environment, and the degree to which the discharge degrades existing environmental quality;
- 4.1.2 Reasonable costs incurred by the State in detection, investigation, and attempted correction of the violation;
- 4.1.3 The economic savings realized by the person in not complying with the requirements for which a violation is charged; and
- 4.1.4 The need for an enhanced civil penalty to deter future noncompliance.

4.2 Injunctive Relief

- 4.2.1 Under AS 46.03.820, the Department can order an activity presenting an imminent or present danger to public health or that would be likely to result in irreversible damage to the environment be discontinued. Upon receipt of such an order, the activity must be immediately discontinued.
- 4.2.2 Under AS 46.03.765, the Department can bring an action in Alaska Superior Court seeking to enjoin ongoing or threatened violations for Department-issued permits and Department statutes and regulations.

4.3 Criminal Action

Under AS 46.03.790(h), a person is guilty of a Class A misdemeanor if the person negligently:

- 4.3.1 Violates a regulation adopted by the Department under AS 46.03.020(12);

- 4.3.2 Violates a permit issued under the program authorized by AS 46.03.020(12);
- 4.3.3 Fails to provide information or provides false information required by a regulation adopted under AS 46.03.020(12);
- 4.3.4 Makes a false statement, representation, or certification in an application, notice, record, report, permit, or other document filed, maintained, or used for purposes of compliance with a permit issued under or a regulation adopted under AS 46.03.020(12); or
- 4.3.5 Renders inaccurate a monitoring device or method required to be maintained by a permit issued or under a regulation adopted under AS 46.03.020(12).

4.4 Other Fines

Upon conviction of a violation of a regulation adopted under AS 46.03.020(12), a defendant who is not an organization may be sentenced to pay a fine of not more than \$10,000 for each separate violation (AS 46.03.790(g)). A defendant that is an organization may be sentenced to pay a fine not exceeding the greater of: (1) \$200,00; (2) three times the pecuniary gain realized by the defendant as a result of the offense; or (3) three times the pecuniary damage or loss caused by the defendant to another, or the property of another, as a result of the offense (AS 12.55.035(c)(B), (c)(2), and (c)(3)).

Appendix B: Abbreviations and Acronyms

18 AAC 70	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 70: Water Quality Standards. Available at: https://dec.alaska.gov/media/eovgrgs5/18-aac-70.pdf
18 AAC 72	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 72: Wastewater Disposal. Available at: https://dec.alaska.gov/media/k3zjcd04/18-aac-72.pdf
18 AAC 83	Alaska Administrative Code Title 18 Environmental Conservation, Chapter 83: Alaska Pollutant Discharge Elimination System. Available at: https://dec.alaska.gov/media/cqbk5a3m/18-aac-83.pdf
33 CFR Part 159	Code of Federal Regulations Title 33: Navigation and Navigable Waters. Available at: http://www.ecfr.gov/cgi-bin/ECFR?page=browse
40 CFR	Code of Federal Regulations Title 40: Protection of Environment. Available at: http://www.ecfr.gov/cgi-bin/ECFR?page=browse
401 Certification	State of Alaska's CWA Section 401 Certificate of Reasonable Assurance
ADF&G	Alaska Department of Fish and Game
APDES	Alaska Pollutant Discharge Elimination System
AS 46.03	Alaska Statutes Title 46, Chapter 03: Environmental Conservation. Available at http://www.legis.state.ak.us/default.htm
BAT	Best Available Technology Economically Achievable
BMP	Best Management Practices
BOD	Biochemical Oxygen Demand
BOD₅	Biochemical Oxygen Demand 5-Day Test
BPJ	Best Professional Judgment
CFR	Code of Federal Regulations. Available at: http://www.ecfr.gov/cgi-bin/ECFR?page=browse
CHA	Critical Habitat Area
COD	Chemical Oxygen Demand
CWA	Clean Water Act
DAF	Dissolved Air Flotation

Appendix B - Abbreviations and Acronyms

DEC	Alaska Department of Environmental Conservation or The Department. Available at http://dec.alaska.gov/
DMR	Discharge Monitoring Report
DO	Dissolved Oxygen
DPS	Distinct Population Segment
ECHO	EPA's Enforcement & Compliance History Online
EFH	Essential Fish Habitat
e.g.	Latin, "Exempli gratia", Latin for 'for the sake of example'
ELG	Effluent Limitation Guideline
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act of 1973
FDA	U.S. Food and Drug Administration
GIS	Geographic Information System
gpd	Gallons per day
GPS	Global Positioning System
i.e.	Latin "id est." for 'in other words' or 'that is'
MBR	Membrane Bioreactors
MDL	Method Detection Limits
mgd	Million gallons per day
mg/L	Milligram per liter
µg/L	Micrograms per liter
ML	Minimum Level
ml	Milliliter
MLLW	Mean Lower Low Water
MSGP	Multi-Sector General Permit
N/A	Not Applicable
NH₃	Ammonia

Appendix B - Abbreviations and Acronyms

NH₄⁺	Ammonium
nm	Nautical mile
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NPDES	National Pollutant Discharge Elimination System
O&G	Oil and Grease
QA/QC	Quality Assurance/Quality Control
QAPP	Quality Assurance Project Plan
ROVs	Remotely Operated Vehicles
RTC	Response to Comments
SPI	Sediment Profile Imaging
SU	Standard Units
T/E spp	Threatened or Endangered Species
TBEL	Technology-Based Effluent Limitations
TMDL	Total Maximum Daily Load
TRC	Total Residual Chlorine
TSS	Total Suspended Solids
USFWS	United States Fish and Wildlife Service
U.S.	United States
U.S.C.	United States Code
VGP	Vessel General Permit
WQBEL	Water Quality-Based Effluent Limitations
WQS	Water Quality Standards

Appendix C - Definitions

Alaska Pollutant Discharge Elimination System (APDES) – Means the state's program, approved by EPA under 33 U.S.C. 1342(b), for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits and imposing and enforcing pretreatment requirements under 33 U.S.C. 1317, 1328, 1342, and 1345

Annual Means once per calendar year

Average – Means an arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities

Average Monthly Discharge Limitation – Means the highest allowable average of "daily discharges" over a calendar month calculated as the sum of all "daily discharges" measured during a calendar month divided by the number of "daily discharges" measured during that month

Baseline – Generally speaking, the baseline consists of the mainland low-water line and any offshore island and additional features that are applicable to the U.S. coast, such as straight lines or closing lines of river mouths, bays and enclosed harbors from which the breadth of the territorial sea is measured. See U.S. Maritime Zones and the Determination at http://ushydro.thsoa.org/hy07/11_01.pdf of the National Baseline at for more information on baseline

Best Management Practices (BMPs) – Means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the United States. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage

Biochemical Oxygen Demand (BOD₅) – Means the amount, in milligrams per liter, of oxygen used in the biochemical oxidation of organic matter in five days at 20° C

Bone Meal – Means a by-product made from the bones recovered from seafood processing

Boundary – Means a line or landmark that serves to clarify, outline, or mark a limit, border, or interface

Bypass – Means the intentional diversion of waste streams from any portion of a treatment facility

Catch Transfer Water – Means waste or wastewaters conveyed to an onshore seafood processing facility from a vessel as part of the seafood offloading process. Includes fish hold waste and wastewater, live tank water, refrigerated seawater, and brine.

Appendix C - Definitions

Clean Water Act (CWA) – Means the federal law codified at 33 U.S.C. 1251-1387, also referred to as the Federal Water Pollution Control Act or Federal Water Pollution Control Act Amendments of 1972

Color Means the condition that results in the visual sensations of hue and intensity as measured after turbidity is removed

Commissioner – Means the commissioner of the Alaska Department of Environmental Conservation or the commissioner's designee

Commodity (Line) – May refer to: Crab meat, whole crab/crab sections, shrimp, salmon conventional/hand butchered, salmon mechanized processing, bottom fish conventional/hand butchered, bottom fish mechanized processing, scallops, herring - frozen whole, herring fillet processing, washed mince, washed paste, by-product recovery, or sea macroalgae

Composite Samples – Composite samples shall consist of at least one equal volume grab sample aliquot per every full three hours in the compositing period. The sample aliquots shall be collected, stored and analyzed within applicable hold times in accordance with procedures prescribed in the most recent edition of *Standard Methods for the Examination of Water and Wastewater*

Construction – Means any placement, assembly, or installation of facilities or equipment (including contractual obligations to purchase such facilities or equipment) at the premises where such equipment will be used, including preparation work at such premises" (see Section 306(a) of the CWA), a number of activities may give rise to new source status

Contact Recreation – Means activities in which there is direct and intimate contact with water. Contact recreation includes swimming, diving, and water skiing. Contact recreation does not include wading

Continuous Coverage – Seafood waste deposits that are found to be 95% or greater areal coverage within a 3-foot by 3-foot sample plot as measured along a transect of the seafloor. At DEC's discretion, will include boulders, rock outcrops, ridges, and other protrusions within an area of continuous coverage that are not covered by seafood waste

Cooling Water – Means once-through, non-contact cooling water

Criterion – Means a set concentration or limit of a water quality parameter that, when not exceeded, will protect an organism, a population of organisms, a community of organisms, or a prescribed water use with a reasonable degree of safety. A criterion might be a narrative statement instead of a numerical concentration or limit

Appendix C - Definitions

Daily Discharge – Means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for the purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with a limitation expressed in other units of measurement, the "daily discharge" is calculated as the average measurement of the pollutant over the day

Datum – A datum defines the position of the spheroid, a mathematical representation of the earth, relative to the center of the earth. It provides a frame of reference for measuring locations on the surface of the earth by defining the origin and orientation of latitude and longitude lines

Department – Means the Alaska Department of Environmental Conservation

Design Flow – Means the wastewater flow rate that the plant was designed to handle

Detectable – Means any amount of observable seafood waste deposits. In general, seafloor surveyors have reported that seafood deposits must be greater than 2% coverage in the 3-foot by 3-foot sample plot to be evident

Director – Means the commissioner or the commissioner's designee assigned to administer the APDES program or a portion of it, unless the context identifies an EPA director

Discharge – Means, when used without qualification, the discharge of a pollutant

Discharge of a Pollutant – Means any addition of any pollutant or combination of pollutants to waters of the United States from any point source or to waters of the contiguous zone or the ocean from any point source other than a vessel or other floating craft that is being used as a means of transportation. Discharge includes any addition of pollutants into waters of the United States from surface runoff that is collected or channeled by humans, discharges through pipes, sewers, or other conveyances owned by a state, municipality, or other person that do not lead to a treatment works, discharges through pipes, sewers, or other conveyances leading into privately owned treatment works, and does not include an addition of pollutants by any indirect discharger

Discontinuous coverage – Means areas of seafood waste deposits that are estimated to cover 10% or more of the seafloor, but less than 95%, within the 3-foot by 3-foot sample plot

Dissolved Oxygen (DO) – Means the concentration of oxygen in water as determined either by the Winkler (iodometric) method and its modifications or by the membrane electrode method

The oxygen dissolved in water or wastewater and usually expressed in milligrams per liter or percent saturation

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Domestic Wastewater – Means waterborne human wastes or graywater derived from dwellings, commercial buildings, institutions, or similar structures. "Domestic wastewater" includes the contents of individual removable containers used to collect and temporarily store human wastes or sewage

Ecosystem – Means a system made up of a community of animals, plants, and bacteria and the system's interrelated physical and chemical environment

Effluent – Means the segment of a wastewater stream that follows the final step in a treatment process and precedes discharge of the wastewater stream to the receiving environment

Estimated – Means a way to determine the discharge volume and flow rates. Approvable estimations include, but are not limited to, the lift station run time combined with pump speeds, averaging the direct volume measurements over several time-periods correlated to commodity line production amounts, etc.

Existing Use of the Waterbody – The protected use classes and subclasses of state waters. For marine waters these uses include water supply, water recreation, growth and propagation of fish, shellfish, other aquatic life, and wildlife, and harvesting for consumption of raw mollusks or other aquatic life. An existing use includes all of these protected uses. See 18 AAC 70.020 for the protected subclasses

Existing Source – Existing source means any source which is not a new source or a new discharger those constructed, or the use of equipment that was installed, prior to December 1, 1975. See definition for Construction, 'New Source', and Source

Facility (ies) – Means those seafood processing plants located onshore (land); those plants or systems located on pilings; and/or support barges and vessels anchored next to a seafood processing facility at a location. Throughout the permit or fact sheet the words "facilities or equipment" can be used interchangeably with the term "source", and "building, structure, facility, or installation"

Fecal Coliform Bacteria (FC) – Bacteria that can ferment lactose at $44.5^{\circ} + 0.2^{\circ}\text{C}$ to produce gas in a multiple tube procedure. Fecal coliform bacteria also means all bacteria that produce blue colonies in a membrane filtration procedure within 24 ± 2 hours of incubation at $44.5^{\circ} + 0.2^{\circ}\text{C}$ in an M-FC broth

Fish Hydrolysate – Means a seafood by-product where solid fish is transformed into a liquid or dry product obtained through various biological processes, sometimes including the addition of enzyme and acid reducers to speed up the hydrolysis process and possible dehydration

Fish Meal/Powder – Means a solid product obtained by removing most of the water and some or all of the oil from fish or fish waste

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Fish Oil – Means the oil recovered from the tissue of oily fish such as salmon through a by-product recovery process to be sold as a usable product

Fish Protein – Means a minced, paste or ground seafood product that may be made up of multi-species. In example, 'fish protein' (contains one or more of the following: pollock, cod, and/or Pacific whiting, salmon, etc)

Fishery Resource – Means finfish, mollusks, crustaceans, and any other form of marine animal or plant life, other than marine mammals and birds. Referred to as 'seafood'

Fishing vessel / barge – Means a vessel/barge that commercially engages in the catching, taking, or harvesting of a fishery resource or an activity that can reasonably be expected to results in the catching, taking, or harvesting of a fishery resource. Or a vessel/barge that operates on behalf of the operator to dispose of seafood waste in Inland waters

Food Ingredients, Additives & Colors – As defined by the FDA 21 CFR

Garbage – Means all kinds of victual, domestic and operational waste, excluding fresh fish and part thereof, generated during normal operation and liable to be disposed of continuously or periodically except dishwater, graywater and those substances that are defined in other Annexes to MARPOL 73/78

Geometric Mean – The geometric mean is the Nth root of the product of N. All sample results of zero will use a value of 1 for calculation of the geometric mean. Example geometric mean calculation: $\sqrt[4]{12 \times 23 \times 34 \times 990} = 55$

Grab Sample – Means a single instantaneous sample collected at a particular place and time that represents the composition of wastewater only at that time and place

Graywater – Means wastewater from a laundry, kitchen, sink, shower, bath, or other domestic source that does not contain excrement, urine, or combined storm water

Hydrodynamically energetic waters – Means waters that will disperse the seafood processing waste before settling, re-suspend and disperse wastes during high current events, or facilitate the decay and decomposition of the seafood waste

Hydrolysate – Means the liquid or solid product generated by enzymatically digesting seafood waste

Influent – Means untreated wastewater before it enters the first treatment process of a wastewater treatment works

Internal Outfall – Means those discharge lines (outfalls) used to monitor a specified wastewater stream before it mixes with another wastewater stream

Living substrate – Means intertidal and seafloor communities of benthic plants (e.g., macroalgae and kelp) and animals (e.g., mussels, tube-building polychaete worms, and

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erect bryozoans) in dense aggregations. The Habitat Conservation Division of NMFS may be contacted at 907-271-5006 (Anchorage) or 907-586-7235 (Juneau) for further guidance on and the known locations of living substrates and other Habitat Areas of Particular Concern listed under the Essential Fish Habitat section of the Magnuson Fishery Conservation and Management Act

Macroalgae and Microalgae Processing – Means processing activities associated with those marine plants

Marine sanitation device – Means any equipment for installation on board a vessel that is designed to receive, retain, treat or discharge sewage or any process to treat such sewage

Maximum Daily Discharge Limitation – Means the highest allowable "daily discharge"

Mean – Means the average of values obtained over a specified period and, for fecal coliform analysis, is computed as a geometric mean

Mean Lower Low Water (MLLW) – Means the tidal datum plane of the average of the lower of the two low waters of each day, as would be established by the National Geodetic Survey, at any place subject to tidal influence

Measured – Means the actual volume of wastewater discharged using appropriate mechanical or electronic equipment to provide a totalized reading. Measure does not provide a recorded measurement of instantaneous rates

Method Detection Limit (MDL) – Means the minimum concentration of a substance (analyte) that can be measured and reported with 99 percent confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix containing the analyte

Micrograms per Liter ($\mu\text{g/L}$) – Means the concentration at which one millionth of a gram (10^{-6} g) is found in a volume of one liter

Mid-Depth – Means the depth of the sample location proportional to the water depth at the time of monitoring. Mid-depth is approximately half of the distance from the water surface to the seafloor at the monitoring location

Milligrams per Liter (mg/L) – Means the concentration at which one thousandth of a gram (10^{-3} g) is found in a volume of one liter. It is approximately equal to the unit "parts per million (ppm)," formerly of common use

Mince – Means finely chopped seafood, particularly fish

Minimum Level (ML) – Means the concentration at which the entire analytical system shall give a recognizable signal and an acceptable calibration point. The ML is the concentration in a sample that is equivalent to the concentration of the lowest calibration

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standard analyzed by a specific analytical procedure, assuming that all the method-specified sample weights, volumes, and processing steps have been followed. This level is used as the compliance level if the effluent limit is below it

Mixed Commodity – Means when more than one type of seafood processing commodity line is being processed

Mixing Zone – An area in a waterbody surrounding or downstream of, a discharge where the effluent plume is diluted by the receiving water within which specified water quality criteria may be exceeded

Month – Means the time period from the 1st of a calendar month to the last day in the month

Monthly Average – Means the average of daily discharges over a monitoring month calculated as the sum of all daily discharges measured during a monitoring month divided by the number of daily discharges measured during that month

Moored/Docked Support Vessels – Means those vessels that moor or dock next to a seafood processing facility, performing or providing seafood processing support services such as additional processing capabilities or freezing services

New Source – Under the CWA, any source, the construction of which is commenced after promulgation. Means any building, structure, facility, or installation from which there is or may be a discharge of pollutants, the construction of which commenced:

- a.) After promulgation of standards of performance under Section 306 of the CWA which are applicable to such source, or
- b.) After proposal of standards of performance in accordance with Section 306 of the CWA which are applicable to such source, but only if the standards are promulgated in accordance with Section 306 of the CWA within 120 days of their proposal.

When reviewing 40 CFR 122.29 for Criteria for new source determination for Seafood Processing's "new source" this is the placement, assembly or installation of facilities or equipment which commenced after December 1, 1975. EPA has previously determined that a newly constructed facility is a new source even if its discharge is conveyed through an existing waste treatment system. 49 Fed. Reg. 38044 (Sept. 26, 1984). Note, in EPA's interpretive memo, where an owner or operator makes changes only to its wastewater treatment systems, and no changes occur in the production or wastewater generating processes of the plant, the source should not be reclassified as a new source

Non-Process wastewaters – Means any water which, during manufacturing or processing, does not come into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product. Including, but not limited to: non-contact cooling water, boiler water, freshwater pressure relief

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water, refrigeration/freezer condensate, continuous exchange live tank water, scrubber water, etc.

Non-Remote Processor – Mean a seafood processing facility or by-product recovery facility located in a designated "processing center" or "population center" as described in 40 CFR Part 408

Nuisance discharge – Means, a substantial and unreasonable interference with the use or enjoyment of real property, including water. Including seafood processing effluent discharges that are discharged or stored where animals are attracted to the waste in a manner that creates a threat to animal or human health and safety

Oil and Grease – Mean those components of a waste water amenable to measurement by the method described in Methods for Chemical Analysis of Water and Wastes, 1971, Environmental Protection Agency, Analytical Quality Control Laboratory, page 217, and utilizing approved methods, per Title 40 Code of Federal Regulations (CFR) Part 136 (Guidelines Establishing Test Procedures for the Analysis of Pollutants), adopted by reference at 18 AAC 83.010(f)

Operator / Permittee – Means a company, organization, association, entity, or person who is issued a wastewater permit and is responsible for ensuring compliance, monitoring, and reporting as required by this permit

Ordinary High Water Mark – Means that line on the shore established by the fluctuations of water and indicated by physical characteristics such as a clear, natural line impressed on the bank, shelving, changes in the character of soil, destruction of terrestrial vegetation, the presence of litter and debris, or other appropriate means that consider the characteristics of the surrounding areas

pH – Means a measure of the hydrogen ion concentration of water or wastewater, expressed as the negative logarithm of the hydrogen ion concentration, expressed as moles/L ($\text{pH} = -\log_{10}(\text{H}^+)$). A pH of 7 is neutral. A pH less than 7 is acidic, and a pH greater than 7 is basic

Point Source – Means any discernible, confined, and discrete conveyance, including but not limited to: any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft form which pollutants are or may be discharged

Pollutant – Means dredged spoil, solid waste, incinerator residue, filter backwash, sewage, garbage, sewage sludge, munitions, chemical wastes, biological materials, radioactive materials (except those regulated under 42 U.S.C. 2011), heat, wrecked or discarded equipment, rock, sand, cellar dirt, and industrial, municipal, or agricultural waste discharged into water

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Poor Flushing – Means average water currents of less than one third (0.33) of a knot within 300 feet of an outfall

Principal Executive Officer – Means the chief executive officer of the agency or a senior executive officer having responsibility for the overall operations of a principal geographic unit of division of the agency

Process wastewater – Means any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any raw material, intermediate product, finished product, byproduct, or waste product. Including, but not limited to: contact wastewater (e.g. contact cooking or cooling waters, such as retort water, or water used to boil or cool seafood directly), wastewater from floor drains, drains where water or process water has come in contact with seafood loading and unloading areas, water from seafood processing areas and by-product lines; or those waters that has been in contact seafood, seafood waste and wastewaters and offal

Processor – Operator of a facility who prepares raw fish or shellfish into a marketable form

Quality Assurance Project Plan (QAPP) – Means a system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other technical and reporting activities are of the highest achievable quality

Quarter or Quarterly – Means the time period of three months based on the calendar year beginning with January

Readily Visible – Readily visible area is defined as the receiving water and shoreline area(s) that a shore-based observer can see when standing at a location (on or off the permittee's parcel) where the field of view is unobstructed by buildings or ships. Visible areas may vary with weather (e.g., fog) and sea conditions (waves). As a result, the extent of the readily visible area should be noted as part of each daily monitoring event

Receiving Water Body – Means waters of the U.S. including: lakes, bays, sounds, ponds, impounding reservoirs, springs, wells, rivers, streams, creeks, estuaries, marshes, inlets, straits, passages, canals, the Pacific Ocean, Gulf of Alaska, Bering Sea, and Arctic Ocean, in the territorial limits of the state, and all other bodies of surface water, natural or artificial, public or private, inland or coastal, fresh or salt, which are wholly or partially in or bordering the state or under the jurisdiction of the state. (See "Waters of the U.S." at 18 AAC 83.990(66) & AS 46.03.900(37))

Recorded – Means a permanent record using mechanical or electronic equipment to provide a totalized reading, as well as a record of instantaneous readings

Report – Report results of analysis

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Residual Chlorine – Means chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine

Responsible Corporate Officer – Means a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function or any other person who performs similar policy or decision making functions for the corporation.
The Responsible Corporate Officer can also be the manager of one or more manufacturing, production, or operating facilities if the requirements of 18 AAC 83.385(a)(1)(B)(i)-(iii) are met

Sample Plot – Means a sampling area, 3-foot by 3-foot square, used in the Seafloor Survey Protocol (Appendix E), used in measuring percentages of seafood waste coverage

Sampling Day – Means any consecutive 24-hour sampling period

Scupper – Means an opening for draining off water, as from a floor or the roof of a building

Seafloor Survey Area – To include the entire marine floor operating area where seafood waste deposits may be found. Seafloor areas surrounding a permittee's seafood processing facility, seafloor areas surrounding: seafood transfer devices; vessel and/or barge loading and unloading areas; seafloor areas under bulkheads, ramps, floating walkways, docks, pilings, dolphins, anchors, buoys and other marine appurtenances; outfall terminus location(s) and the length of the outfall line connecting the facility to the point of discharge. Additionally, the survey shall include any seafood waste found at previous outfall terminus locations for those outfalls that have no record of historical seafloor survey; and the marine water and seafloor underlying and connecting these features

Seafood – Means the raw material, including freshwater and saltwater fish and shellfish, to be processed from the form in which it is received as a seafood processing plant

Seafood by-product – Means the process wastewater effluent and seafood waste fluids, organs, flesh, bones, and chitinous shells produced in the conversion of seafood from a raw form to a marketable form that is utilized as source of material in a by-product recovery process line or facility. See also fish meal, bone meal, fish oils, hydrolysate

Seafood Processing – The conversion of aquatic animals from a raw to marketable form which involves more than evisceration of fish or other seafood at-sea

Seafood Processing Waste – Means the waste fluids, organs, flesh, bones, woody fiber and chitinous shells produced in the conversion of aquatic animals and plants from a raw form to a marketable form

Seafood Processing Waste and Wastewaters – Means based on definition of 'process wastewater' found in 18 AAC 83.990(54), any water which, during manufacturing or processing, comes into direct contact with or results from the production or use of any

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raw material, intermediate product, finished product, byproduct, or waste product. Including, but not limited to: contact wastewater (e.g. contact cooking or cooling waters, such as retort water, or water used to boil or cool seafood directly), wastewater from floor drains, drains where water or process water has come in contact with water from seafood processing areas and by-product lines; or those waters that has been in contact seafood, seafood waste and wastewaters and offal; ice and water used to transfer seafood (i.e., catch transfer water) into the facility and live tank water transferred into the facility

Seasons A, B, C, D – Generally means the area Pollock fishing openings: Generally, the seasons run as follows - Season A: January - April/May; Season B June-October, Season C and D begin in August and October, respectively

Seasonal Facility – Means a facility that only processes seafood for a limited amount of time each calendar year and then the facility shuts down for three or more months before beginning processing again

Secondary Recreation – Means activities in which incidental water use can occur. Secondary recreation includes boating, camping, hunting, hiking, wading, and recreational fishing. Secondary contact recreation does not include fish consumption

Settleable Solids – Means solid material of organic or mineral origin that is transported by and deposited from water, as measured by the volumetric Imhoff cone method and at the method detection limits specified in method 2540(F), Standard Methods for the Examination of Water and Wastewater, 18th edition (1992), adopted by reference in 18 AAC 70.020(c)(1)

Sewage – Means human body wastes and the wastes from toilets and other receptacles intended to receive or retain body wastes

Shall – Used in laws, regulations, or directives (including the use in this permit) to express what is mandatory <it shall be unlawful to carry firearms>

Sheen – Means an iridescent appearance on the water surface

Shellfish – Means a species of crustacean, mollusk, or other aquatic invertebrate with a shell or shell-like exoskeleton in any stage of its life cycle

Single Discharge Location – Means the outfall(s) or port discharge locations (past and present) of an onshore facility

Source – Mean any building, structure, facility or installation from which there is or may be a discharge of pollutants

Spoiled Seafood – Means putrid, raw (non-processed) seafood, or contaminated or unsold interim or finished seafood by-products (e.g., hydrolysate, fish meal, fish oil)

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Stickwater – Means the wastewater collected produced from a fish meal, fish oil or fish hydrolysate processes production. Occurs when where fish processing byproducts are cooked, pressed and non-soluble protein solids and oils are usually removed by centrifuges, decanters, tricanter, etc. The leftover solids and solubles after by-product recovery and oil recovery

Support Facility, Vessel(s) or Barge(s) – Means vessels and/or barges anchored next to a seafood processing dock or shoreline location where seafood processing (including freezing activities) is occurring on the vessel / barge on behalf of the onshore facility. This does not include tender vessels who are only transporting fish from the fishing vessels to fish processing facility/vessel

Suspended Solids – Means insoluble solids that either float on the surface of, or are in suspension in, water, wastewater, or other liquids. The quantity of material removed from wastewater in a laboratory test, as prescribed in Standard Methods for the Examination of Water and Wastewater and referred to as non-filterable

Totalizer – Means a piece of equipment used with flow meters that displays the total flow on a real time basis, measuring the total flow of a media over a given time period. Also referred to as a flow totalizer.

Total Maximum Daily Load (TMDL) – The sum of the individual wasteload allocations (WLAs) for point sources and load allocations (LAs) for nonpoint sources and natural background. If receiving water has only one point source discharger, the TMDL is the sum of that point source WLA plus the LAs for any nonpoint sources of pollution and natural background sources, tributaries, or adjacent segments. TMDLs can be expressed in terms of either mass per time, toxicity, or other appropriate measure

Total Residual Chlorine – Means chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine

Total Suspended Solids (TSS) – Means a measure of the filterable solids present in a sample, as determined by the method specified in 40 CFR Part 136 (most current version)

Trace coverage – Means areas of seafood waste that are estimated to cover detectable to less than 10% of areal coverage within a 3-foot by 3-foot sample plot

Unwashed Mince / Unwashed Paste – Means minced seafood or seafood flesh that is paste consistency that is neither washed, nor dewatered and is processed fresh or frozen into blocks

Upset – Means an exceptional incident in which there is unintentional and temporary noncompliance with technology-based effluent limitations because of factors beyond the reasonable control of the operator. An upset does not include noncompliance to the extent

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caused by operational error, improperly designed treatment facilities, inadequate treatment facilities, lack of preventive maintenance, or careless or improper operation

Washed Mince / Washed Paste – Means a washed mince or washed paste seafood or seafood flesh that is washed, dewatered, and is processed fresh or frozen into blocks. In example, key ingredients in surimi, kamaboko, fish sausage, washed seafood carcasses as by-product, and cured surimi products are included in this classification

Water Depth – Means the depth of the water between the surface and the seafloor as measured at MLLW, or from the water surface to the bed lands

Wastewater Treatment – Means any process to which wastewater is subjected in order to remove or alter its objectionable constituents and make it suitable for subsequent use or acceptable for discharge to the environment

Waters of the United States or Waters of the U.S. – Has the meaning given in 18 AAC 83.990(77)

Water Recreation – See contact recreation or secondary recreation

Water Supply – Means any of the waters of the state that are designated in 18 AAC 70 to be protected for fresh water or marine water uses; water supply includes waters used for drinking, culinary, food processing, agricultural, aquacultural, seafood processing, and industrial purposes; "water supply" does not necessarily mean that water in a waterbody that is protected as a supply for the uses listed in this paragraph is safe to drink in its natural state

Week – Means the time period of Sunday through Saturday

Appendix D – Calculations to Determine Compliance with Mass-Based Effluent Limitations

The permit incorporates effluent limitations established by the Effluent Limitations Guidelines (ELGs) for the Canned and Preserved Seafood Processing Point Source Category at 40 CFR Part 408. The limitations are expressed as pounds of total suspended solids (TSS), oil and grease (O&G), and Biochemical Oxygen Demand (5-day test, BOD₅) per 1,000 pounds of seafood processed and are applicable on a per commodity line processed basis. Several types of seafood processing activities and commodity line-specific effluent limitations (Permit Table 3 and Table 6) are covered by the permit. If an authorized facility processes only one commodity line and samples the discharged wastewater, the calculations to determine compliance are shown in Part 1 below (Step 1-1 through 1-4).

If an authorized facility has several commodity lines processing seafood, thus producing mixed-commodity effluent while sampling is performed, the multi-commodity line calculations are provided in Part 2 (Step 2-1 through 2-6). When pollutant sampling is from mixed commodity line seafood processing effluent (more than one commodity line is processed that day), the ELGs must be weighted dependent on the percentage of each commodity processed that day. Mixed commodity line effluent limitations may vary day to day and month to month, and an operator is required to determine accurate effluent limitations calculated based upon the facility-specific commodity mix processed during each reporting period.

Acronyms:

lbs/day = Pounds per day

mg/L = Milligrams per liter

mgd = Million gallons per day

TSS: Total suspended solids

O&G: Oil and grease

BOD₅: Biochemical oxygen demand

TBEL: Technology-based Effluent Limitation

Part 1: Single Commodity Line Compliance Calculations

Step	Instruction	Equation
1-1	Calculate the Production-Normalized Daily Mass Load of the pollutant.	$\frac{[(\text{sample concentration, mg/L}) \times (\text{sample day daily flow, mgd}) \times (8.34 \text{ lbs/gal})]}{(\text{raw product processed on sample date, lbs}) / (1,000 \text{ lbs})}$ <p style="text-align: center;">= Production-Normalized Daily Mass Load of the pollutant, in lbs/1,000 lbs</p>
1-2	Compare the Production-Normalized Daily Mass Load to the daily TBEL limitation.	<p>IF Production-Normalized Daily Mass Load < Daily TBEL,</p> <p style="text-align: center;">THEN daily value is in compliance</p>
1-3	Calculate the Production-Normalized Monthly Average Mass Load of the pollutant.	$\frac{[(\text{Production-Normalized Daily Mass Load on sample day 1}) + (\text{Production-Normalized Daily Mass Load on sample day 2}) + (\text{ETC})]}{(\text{Number of Sample Days during the Month})}$ <p style="text-align: center;">= Production-Normalized Monthly Average Mass Load of the pollutant, in lbs/1,000 lbs</p>
1-4	Compare the Production-Normalized Monthly Average Mass Load to the monthly TBEL limitation.	<p>IF Production-Normalized Monthly Average Mass Load < Monthly TBEL,</p> <p style="text-align: center;">THEN monthly value is in compliance</p>

Example: Bottom fish is processed by mechanized processes for 28 days in September at a facility. One time per week, wastewater is analyzed for TSS. The operator is required to record the pounds (lbs) of raw seafood processed each day and the amount of wastewater discharged each day in million gallons per day (mgd). The pounds of seafood processed and flow volume must be recorded on the day the pollutant sampling is performed. Monitoring logs show the following data:

Table D1: Single Commodity Line Processing Example Data

Date	TSS (mg/L)	Bottom Fish Processed, Raw Weight (lbs/day)	Flow (mgd)
Sept 8	244	35,660	0.043
Sept 14	183	47,200	0.050
Sept 20	175	48,910	0.041
Sept 28	110	28,750	0.035

**Table D2 - From General Permit Table 3:
New Source/Facility Butchering Effluent Limitations for TSS
for Bottom Fish – Mechanized Processing**

Commodity Line	TSS (lbs/1,000 lbs seafood)	
	Monthly Average	Daily Maximum
Bottom Fish - Mechanized Processing	12	22

Step	Example – For operations that process one commodity at a time and sample wastewater representative of that processing event.
1-1	<p>Sept 8: $[(244 \text{ mg/L}) \times (0.043 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(35,660 \text{ lbs}) / (1,000 \text{ lbs})] = 2.45 \text{ lbs TSS} / 1,000 \text{ lbs}$</p> <p>Sept 14: $[(183 \text{ mg/L}) \times (0.050 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(47,200 \text{ lbs}) / (1,000 \text{ lbs})] = 1.62 \text{ lbs TSS} / 1,000 \text{ lbs}$</p> <p>Sept 20: $[(175 \text{ mg/L}) \times (0.041 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(48,910 \text{ lbs}) / (1,000 \text{ lbs})] = 1.22 \text{ lbs TSS} / 1,000 \text{ lbs}$</p> <p>Sept 28: $[(110 \text{ mg/L}) \times (0.035 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(28,750 \text{ lbs}) / (1,000 \text{ lbs})] = 1.12 \text{ lbs TSS} / 1,000 \text{ lbs}$</p>
1-2	<p>Sept 8: 2.45 < 22 lbs TSS/ 1,000 lbs [In Compliance]</p> <p>Sept 14: 1.62 < 22 lbs TSS/ 1,000 lbs [In Compliance]</p> <p>Sept 20: 1.22 < 22 lbs TSS/ 1,000 lbs [In Compliance]</p> <p>Sept 28: 1.12 < 22 lbs TSS/ 1,000 lbs [In Compliance]</p>

1-3	$(2.45 \text{ lbs} / 1,000 \text{ lbs on Sept 8}) + (1.62 \text{ lbs} / 1,000 \text{ lbs on Sept 14}) + (1.22 \text{ lbs} / 1,000 \text{ lbs on Sept 20}) + (1.12 \text{ lbs} / 1,000 \text{ lbs on Sept 28})$ <hr/> <p style="text-align: center;">(4 sampling days)</p> $= \mathbf{1.60 \text{ lbs TSS} / 1,000 \text{ lbs}}$
1-4	September: 1.60 < 12 lbs TSS/ 1,000 lbs [In Compliance]

The same calculations are necessary to determine compliance with effluent limitations for O&G and BOD₅ (if sampling was required).

Part 2: Multiple Commodity Line Compliance Calculations

Step	Instruction	Equation
2-1	Calculate the Production-Normalized Daily Mass Load of the pollutant.	$\frac{[(\text{sample concentration, mg/L}) \times (\text{sample day daily flow, mgd}) \times (8.34 \text{ lbs/gal})]}{(\text{raw product processed on sample date, lbs}) / (1,000 \text{ lbs})}$ $= \text{Production-Normalized Daily Mass Load of the pollutant, in lbs/1,000 lbs}$
2-2	Calculate the Multi-Commodity Line Daily Maximum Permit Limitation	$[(\text{daily maximum TBEL of Commodity Line A}) \times (\text{daily raw product processed on Commodity Line A, lbs})] + [(\text{daily maximum TBEL of Commodity Line B}) \times (\text{daily raw product processed on Commodity Line B, lbs})] + [\text{ETC}]$ <hr/> $\frac{(\text{Total raw product processed on sample date, lbs})}{1,000 \text{ lbs}}$ $= \text{Multi-Commodity Line Daily Maximum Permit Limitation, in lbs/1,000 lbs}$
2-3	Compare the Production-Normalized Daily Mass Load to the Multi-Commodity Line Daily Maximum Permit Limitation	<p>IF Production-Normalized Daily Mass Load < Multi-Commodity Line Daily Maximum Permit Limitation, THEN daily value is in compliance</p>

2-4	Calculate the Production-Normalized Monthly Average Mass Load of the pollutant.	$\frac{[(\text{Production-Normalized Daily Mass Load on sample day 1}) + (\text{Production-Normalized Daily Mass Load on sample day 2}) + (\text{ETC})]}{(\text{Number of Sample Days during the Month})}$ <p>= Production-Normalized Monthly Average Mass Load of the pollutant, in lbs/1,000 lbs</p>
2-5	Calculate the Multi-Commodity Line Monthly Average Permit Limitation	$\frac{[(\text{monthly TBEL of Commodity Line A}) \times (\text{sum monthly raw product processed on Commodity Line A on sampling days, lbs})] + [(\text{monthly TBEL of Commodity Line B}) \times (\text{sum monthly raw product processed on Commodity Line B on sampling days, lbs})] + [\text{ETC}]}{(\text{Sampling days sum total raw product processed during the month, lbs})}$ <p>= Multi-Commodity Line Monthly Average Permit Limitation, in lbs/1,000 lbs</p>
2-6	Compare the Production-Normalized Monthly Average Mass Load to the Multi-Commodity Line Monthly Average Permit Limitation	<p style="text-align: center;">IF Production-Normalized Monthly Average Mass Load < Multi-Commodity Line Monthly Average Permit Limitation, THEN monthly value is in compliance</p>

Example: A facility operates for 22 days in October and processes crab meat, salmon by mechanized processes, and bottom fish by mechanized processes. The seafood processing combined effluent is analyzed for TSS once per week. The amount of raw seafood processed each day by commodity line in pounds, and the amount of wastewater discharged each day in mgd, is recorded. Monitoring logs show the following data:

Table D3: Mixed Commodity Processing Example Data

Date	Seafood Processed, Raw Weight (lbs)				Flow (mgd)	TSS (mg/L)
	Crab Meat	Bottom Fish (Mechanized)	Salmon (Mechanized)	Total		
October 8	25,640	44,570	0	70,210	0.176	261
October 14	18,220	42,830	0	61,050	0.237	148
October 20	30,910	34,990	25,500	91,400	0.250	350
Sum Total	74,770	122,390	25,500	222,660	—	—

**Table D4 - From General Permit Table 3:
New Source/Facility Butchering Effluent Limitations for TSS**

Commodity Line	TSS (lbs/1,000 lbs seafood)	
	Monthly Average	Daily Maximum
Crab Meat	5.3	16
Bottom Fish (Mechanized)	12	22
Salmon (Mechanized)	25	42

Step	Example – For operations that process multiple commodity lines and commingle the wastewater.
2-1	<p>Oct 8: $[(261 \text{ mg/L}) \times (0.176 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(70,210 \text{ lbs}) / (1,000 \text{ lbs})] = 5.46 \text{ lbs TSS} / 1,000 \text{ lbs}$</p> <p>Oct 14: $[(148 \text{ mg/L}) \times (0.237 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(61,050 \text{ lbs}) / (1,000 \text{ lbs})] = 4.79 \text{ lbs TSS} / 1,000 \text{ lbs}$</p> <p>Oct 20: $[(350 \text{ mg/L}) \times (0.250 \text{ mgd}) \times (8.34 \text{ lbs/gal})] \div [(91,400 \text{ lbs}) / (1,000 \text{ lbs})] = 7.98 \text{ lbs TSS} / 1,000 \text{ lbs}$</p>
2-2	<p>Oct 8: $[(16 \text{ lbs}/1,000 \text{ lbs}) \times (25,640 \text{ lbs crab})] + [(22 \text{ lbs}/1,000 \text{ lbs}) \times (44,570 \text{ lbs bottom fish mechanized})] + [(42 \text{ lbs}/1,000 \text{ lbs}) \times (0 \text{ lbs salmon mechanized})]$ <hr/> $(70,210 \text{ lbs total raw product butchered})$ $= 19.81 \text{ lbs}/1,000 \text{ lbs}$</p>

	<p>Oct 14: $[(16 \text{ lbs}/1,000 \text{ lbs}) \times (18,220 \text{ lbs crab})] + [(22 \text{ lbs}/1,000 \text{ lbs}) \times (42,830 \text{ lbs bottom fish mechanized})] + [(42 \text{ lbs}/1,000 \text{ lbs}) \times (0 \text{ lbs salmon mechanized})]$</p> <hr/> <p>(61,050 lbs total raw product butchered) = 20.21 lbs/1,000 lbs</p> <p>Oct 20: $[(16 \text{ lbs}/1,000 \text{ lbs}) \times (30,910 \text{ lbs crab})] + [(22 \text{ lbs}/1,000 \text{ lbs}) \times (34,990 \text{ lbs bottom fish mechanized})] + [(42 \text{ lbs}/1,000 \text{ lbs}) \times (25,500 \text{ lbs salmon mechanized})]$</p> <hr/> <p>(91,400 lbs total raw product butchered) = 25.55 lbs/1,000 lbs</p>
2-3	<p>Oct 8: 5.46 < 19.81 lbs TSS/ 1,000 lbs [In Compliance] Oct 14: 4.79 < 20.21 lbs TSS/ 1,000 lbs [In Compliance] Oct 20: 7.98 < 25.55 lbs TSS/ 1,000 lbs [In Compliance]</p>
2-4	<p>$(5.46 \text{ lbs} / 1,000 \text{ lbs on Oct 8}) + (4.79 \text{ lbs} / 1,000 \text{ lbs on Oct 14}) + (7.98 \text{ lbs} / 1,000 \text{ lbs on Oct 20})$</p> <hr/> <p>(3 sampling days) = 6.08 lbs TSS / 1,000 lbs</p>
2-5	<p>$[(5.3 \text{ lbs}/1,000 \text{ lbs}) \times (74,770 \text{ lbs crab})] + [(12 \text{ lbs}/1,000 \text{ lbs}) \times (122,390 \text{ lbs bottom fish mechanized})] + [(25 \text{ lbs}/1,000 \text{ lbs}) \times (25,500 \text{ lbs salmon mechanized})]$</p> <hr/> <p>(222,660 lbs) = 11.2 lbs/1,000 lbs Multi-Commodity Line Monthly Average Permit Limitation</p>
2-6	<p>October: 6.08 < 11.2 lbs TSS/ 1,000 lbs [In Compliance]</p>

The same calculations are necessary to determine compliance with effluent limitations for O&G and BOD₅ (if sampling was required).

Appendix E – Seafloor Survey and Outfall Inspection Protocol

SEAFLOOR SURVEY PROTOCOL OVERVIEW

Seafloor Survey Applicability. The Seafloor Survey Protocol shall be used by the permittee to investigate potential seafood waste deposits accumulating on the seafloor.

Purpose. The purpose of a seafloor survey is to 1) determine compliance with marine water quality criteria for residues (seafood processing waste deposits) on the seafloor; 2) evaluate the potential impacts on aquatic life, including the potential for bioaccumulation and persistence; 3) evaluate the expected duration of the deposit and any adverse effects; and 4) evaluate the potential transport of pollutants by biological, physical, and chemical processes. The permittee's historic and current discharge location(s) may have accumulated or be currently accumulating seafood waste deposits. Thus, the seafloor surrounding the current and all previous outfall terminus locations must be evaluated.

Seafloor Survey Protocol. The Seafloor Survey Protocol must be reviewed by the permittee and the permittee's surveyor. An equivalent method may be acceptable if it meets the survey purpose, as well as the data gathering and reporting objectives, contained herein. Alternate survey methods selected must be approved by DEC prior to implementation.

The seafloor surveys shall include subtidal fixtures, structures, and their location(s) and shall determine the thickness, total cumulative area(s), location, and outer boundaries of continuous and discontinuous coverage areas(s) of seafood waste on the seafloor. Continued surveying will document existing and ongoing seafood waste deposition, if any, as well as natural ambient dispersion and biological decay processes.

1.0 Seafloor Survey and Outfall Inspection Protocols

The permittee shall provide the surveyor a copy of the permit, any identified location(s) of seafood waste deposits as documented through the previously conducted Seafloor Survey(s), and this Seafloor Survey Protocol. The surveyor should request from the permittee information on any maintenance completed that could affect seafloor deposits. Additionally, the permittee shall inform the surveyor of any change in discharge locations since the last seafloor survey.

The seafloor survey shall be completed on a 30 foot by 30 foot grid pattern (30 feet between transect lines and 30 feet between sample plots along each transect). A minimum of nine sample plots must be surveyed. The sample plots must be centered around the outfall and must be adequate to encompass all seafood processing waste coverage areas. The survey must continue beyond the boundaries of seafood processing waste found as 'Trace' so that all deposits can be mapped as continuous, discontinuous, or 'Trace' coverage.

If feasible, at least five permanent markers (e.g., large rock outcrops, boulders, etc.) must be established at suitable locations, provided there are sufficient land/facility and/or underwater locations. If markers/monuments are not established, the seafloor survey shall report why markers were not established (e.g., current technologies were used that would allow the seafloor surveys to be repeated without permanent markers, or permittee does not own the bedlands the survey was performed at). If unable to establish permanent markers, the surveyor must document in the seafloor survey report the methods used to establish repeatable transects. Global Positioning System (GPS) coordinates derived using Wide Area Augmentation System (WAAS) technologies, or another technology with equivalent or better position accuracy, must be recorded for each underwater marker.

The surveyor must establish transect lines with a surveyor's tape or other precise methodology. Parallel transects shall be established no more than 30 feet apart and extend in a perpendicular direction from the permanent markers. If seafood processing waste deposit coverage extends beyond where neighboring seafood facilities' piles may intersect, then transect lengths must be extended to identify the full extent of seafood processing waste deposits.

The permittee is required to collect continuous WAAS enhanced GPS location information (reported in decimal degrees, to the fifth decimal place, if available, using the North American Datum (NAD) 1983 or World Geodetic System (WGS) 1984 datum). The accuracy of coordinates shall be at least within ± 50 feet (17 meters) while conducting the survey so that any vessel drift can be mapped. The permittee is also required to collect continuous depth information for each sample plot location, corrected to Mean Lower Low Water (MLLW).

Photographs are required on the designated grid spacing and, along with sample plot results, will establish the location(s) of the seafood waste deposits. Seafood processing waste mapping shall continue until seafood processing waste is no longer visible. Current technologies exist that allow the Seafloor Survey to extend into water depths greater than -120 feet Mean Lower Low Water (MLLW).

Seafloor Survey Protocol

Seafloor Survey Report. The permittee shall submit a Seafloor Survey Report to DEC containing the following information (due with the survey year's Annual Report):

1. Facility Information

- a. Permittee Name, APDES permit number, address, and contact information.
- b. Type of waste treatment, product, and by-product processes.

2. Surveyor and Survey Information

- a. Surveyor's name, signature, and contact information.
- b. Brief background of surveyor's previous work history performing seafloor surveys and mapping.

- c. Date and time the survey was completed.
- d. Name and USCG number of vessel assisting in the survey.
- e. Name of the receiving water where the survey is completed.
- f. Continuous GPS location information (reported in decimal degrees, to the fifth decimal place, if available, using the North American Datum (NAD) 1983 or World Geodetic System (WGS) 1984 datum). The accuracy of coordinates shall be at least within ± 50 feet (17 meters) while the survey is completed.
- g. Whether there are other seafood waste discharges occurring within 0.25 mile of the permittee's discharge locations.
- h. Whether seafood waste discharge was occurring at the time of the survey.
- i. QAPP that describes the methods used to:
 - Establish linear transects,
 - Locate sample plot locations along the transects,
 - Estimate percent coverage at each sample plot (photograph location), and
 - Calculate the continuous and discontinuous coverage area(s) of seafood waste deposits.

3. Previous Survey Information (if applicable)

- a. Name of surveyor(s) who completed the previous survey(s).
- b. Name of receiving water.
- c. Date, time, and place of previous seafloor survey(s).
- d. Date of completion of any previous seafloor survey report(s) and first and last name(s) of individual(s) who performed the analysis and report writing.
- e. A narrative of the seafloor survey(s) results that describes the methods and results of previous survey(s), including:
 - Total cumulative area(s) of seafood waste deposits
 - Any available electronic or hard copy mapping of seafood waste deposits found
- f. Whether mechanical raking or other pile reduction strategies have been implemented by the permittee at any time.

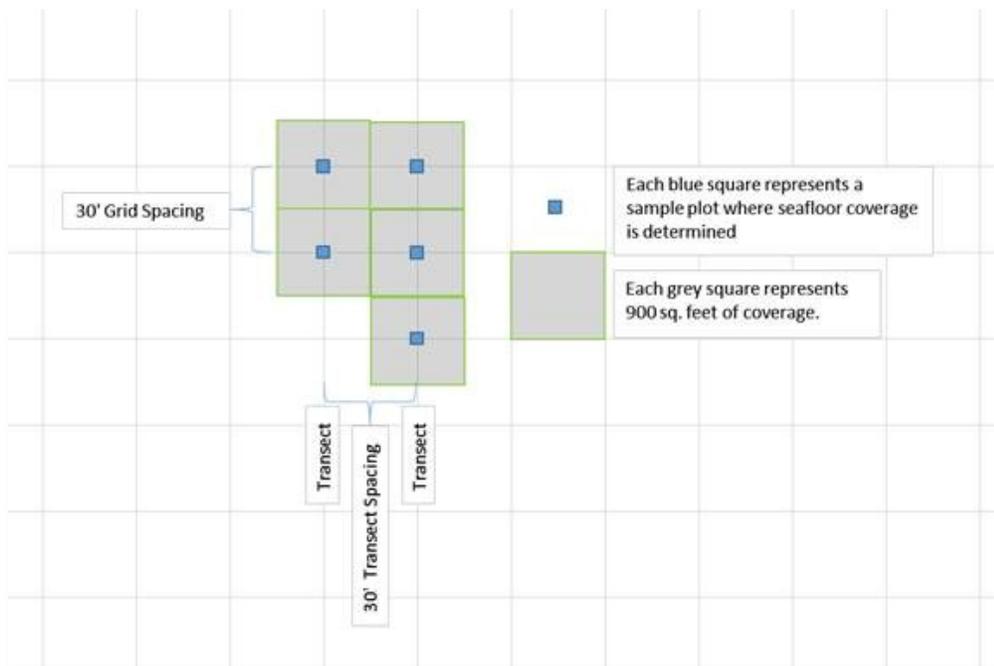
4. Sample Plot Observations - The seafloor survey shall be completed on a 30 foot by 30 foot grid pattern (30 feet between transect lines and 30 feet between sample plots (photographic image locations) along each transect. If the outfall is found to be broken or floating, the seafloor survey must encompass the authorized outfall location as well as the areas below the discharge location(s) where the break/floating outfall was found. The Seafloor Survey is required to occur into water depths greater than -120 feet Mean Lower Low Water (MLLW) if necessary, until seafood processing waste is no longer visible. At each sample plot, the surveyor shall use a three-foot by three-foot square to determine required items in the Seafloor Survey Report, which include the following:

- a. **Digital photographs.** Digital photographs representative of the sample plots must depict the nature and coverage of seafood processing waste deposit(s), if any, on the seafloor at the sample plot locations along parallel transects. Digital photographs shall capture images of natural sediment, natural sediment covering seafood processing waste, if observable, and seafood waste and/or bacterial mats covering the seafloor. The surveyor must document whether they are able to differentiate between natural sediments or evidence of seafood

waste residues based on observations and photographs¹. Photographs shall be of sufficient definition, clarity, and detail to clearly document the seafloor conditions and observations. Photographs shall include a digital date and time stamp. The photograph log shall include the name of the seafood processor, survey date, and photographic sample plot location identifier.

b. **Deposit Type.** Types of seafood waste deposits observed (e.g., bones, ground seafood waste, natural sediments (sediment sloughs, tidal sands), and/or sediments covering seafood waste).

1. **Amount and Type of Seafood Waste Coverage.** The surveyor must estimate and record the percentage (Detectable to 100%, rounding to the nearest 10%) of seafloor area(s) covered by recent seafood processing deposits and any historic deposits (decaying bones, beggiatoa mats, etc.) at each sample plot location along the transects (see Permit Attachment C - Transect Data Form). The observation at the sample plot must also include a description of the types of observed seafood waste deposits (e.g., fine screened seafood waste particles meeting permit requirements, processed crab or bivalve shell waste including average size (1.0-inch, 0.5-inch), whole heads, fins & tails, etc.).
2. Each three-foot by three-foot (3 ft by 3 ft) ‘sample plot’ centered every 30 feet along a transect represents 900 square feet (ft²) of seafloor.



3. The seafloor survey shall report each 3 ft by 3 ft sample plot’s seafood waste coverage to the nearest 10%, as follows:

a. **Trace - Report**

Result	Report
Detectable ² -9%	Trace

b. **Discontinuous Coverage** – All discontinuous coverage will be calculated and reported as follows:

¹ Seafloor surveyors may be unable to differentiate between natural sediments and fine particle size seafood processing waste. If this is the case, during the Seafloor Survey the surveyor will be required to obtain sediment grab samples and determine organic enrichment.

² Detectable seafood waste has typically been reported to be 2% coverage

Result	Report
10-14%	10%
15-24%	20%
25-34%	30%
35-44%	40%
45-54%	50%
55-64%	60%
65-74%	70%
75-84%	80%
85-94%	90%

Calculate the areal extent of the seafood processing waste deposits with 10 – 94% coverage as a percentage of 900 sq. feet.

Example Calculations:

- Discontinuous Areas “A” - Six sample plots that are reported as 60% coverage
 $6 * 900 \text{ ft}^2 * 0.6 = 3,240 \text{ ft}^2$
- Discontinuous Areas “B” - Eight sample plots that are reported as 80% coverage
 $8 * 900 \text{ ft}^2 * 0.8 = 5,760 \text{ ft}^2$
- Discontinuous Areas “C” – Twelve sample plots that are reported as 30% coverage
 $12 * 900 \text{ ft}^2 * 0.3 = 3,240 \text{ ft}^2$

Total 10-94% discontinuous coverage = 3240 + 5760 + 3240 = 12,240 ft²

Report Acres: 12,240/43,560 = 0.28 acres

- c. **Continuous Coverage.** Transect Squares with 95% - 100% coverage will be considered Continuous Coverage. All continuous coverage will be calculated and reported as follows:

Result	Report
95-100%	100%

Example Calculations:

- 15 transect squares times 900 ft² each (15 * 900) = **13,500 ft²** of continuous coverage.
 - **Report Acres: 13,500/43,560 = 0.31 acres**
- c. **Beggiatoa or other types of Bacterial Mats.** Document the absence or presence, as well as size and location, of Beggiatoa or other microbial mats observed on or near any seafood waste deposits or on the seafloor (if waste deposits are not evident). All Beggiatoa or other bacterial mat areas shall be counted as continuous coverage.
- d. **Sea Flora and Fauna.** Type and number of macro sea fauna (sea life) and type of aquatic vegetation observed on the seafloor during the photographic survey. Types and quantities of sea life observed adjacent to, on, or feeding on any seafood processing waste deposits during videotaping, along with representative photos with time and date stamp. Mention should be made of any indication of change in sea life behavior from any previous observation or seafloor survey reports, and any other observations relevant to the condition of the benthic community or seafloor.

- e. **Hydrology.** Report ambient tidal current velocity and direction and water chemistry (both seasonal and in-situ on the day of the survey, including salinity, water temperature, density, turbidity, DO, and pH). These parameters should be taken as a grab sample or using a probe.
 - f. **Substrate.** Composition of substrate (soft sediments, cobble, gravels, solid rock and/or glacial silts, or ground/screened seafood waste, etc.). If previous benthic assessments, dive surveys, or remediation actions have documented the presence of buried seafood waste, this waste must be included in continuous coverage calculations if those buried areas are located directly adjacent to outfalls discharging seafood processing waste and wastewaters, or to other continuous coverage areas. The surveyor has the option to obtain new core samples to document whether seafood waste is or is not present at the previously identified locations.
 - g. **Water depth.** (adjusted to MLLW, reported in feet) must be reported at the seafloor and at the top of any waste pile observed.
 - h. **Plume Size.** An indication of an active or inactive discharge occurring during the time(s) of the survey.
 - 1. Approximate width and length of each outfall's effluent plume when discharge is occurring.
 - 2. Evidence and photographs documenting floating residues surrounding or extending outside the visible plume.
 - 3. Observations and photographs of waste residue particle size in any deposit within 30 ft of the outfall, and a minimum observation and one photograph of the particle size (if any) with an accompanying measuring device.
 - i. **Water Clarity.** A description of water clarity and changes in water clarity as a result of the discharge, if occurring.
 - j. **Tides.** Ambient tidal current velocity and direction.
 - k. **Seafood Waste Deposit Thickness.** Measure and record seafood processing waste deposit thickness (from the seafloor to the highest point of the pile) using a marked stick or pipe to the nearest 0.5-inch (1/2") at each sample plot. Coring may be required to determine the actual thickness of seafood processing waste deposits measured greater than three feet deep or if deposits are of such a fine particle size that the surveyor is unsure whether the seafloor substance is seafood waste or natural sediment.
 - 1. **Report of Anoxic Conditions.** Anoxic conditions often form in the seafood processing waste deposits as the material decomposes. The surveyor should identify and document whether gas is being released from undisturbed seafood processing waste deposits or is released when measuring seafood waste pile thickness.
 - m. **Dissolved Oxygen and other Gases.** When gas is observed escaping from the seafloor in the vicinity of the outfall or from the seafood waste pile, the surveyor is required to collect water samples or measure directly for dissolved oxygen, methane, and hydrogen sulfide. Samples shall be collected at six inches or less above the seafloor/seafood waste deposit where the greatest amounts of gas release are observed.
5. **Sample Plot Observations Map** - A map or representative drawing (with an identified scale, including a north arrow) shall be developed that depicts the facility and the seafloor area surveyed, including the 30 foot by 30 foot transect grid. Each sample plot location must be

identified on the map and correlated³ to the information required in 4.a - m (above). The total cumulative area(s) of both the continuous and discontinuous coverage shall be reported in square feet and in acres to the nearest tenth of an acre. The map must include:

- a. The locations of any seafood processing waste deposits, including the outer boundaries of any continuous and/or discontinuous coverage areas, in relation to the discharge location(s), mapped seafloor area boundaries, survey grid, and outfalls, including:
 - i. **Continuous Coverage:** The relative location and estimated size (ft² and acre) of any continuous coverage areas (95% - 100% coverage) of seafood waste.
 - ii. **Discontinuous Coverage:** The relative location and estimated size (ft² and acre) of any discontinuous coverage areas (10% - 94% coverage) of seafood waste.
 - iii. **Beggiatoa (or other) Mats:** The relative location and estimated size (ft² and acre) of any Beggiatoa or other bacterial mats discovered during the photographic survey.
 - iv. **Outfalls and Water Intakes:** Coordinates of beginning and end points for all outfalls/intakes (including pipes that do not belong to the permittee, and the permittee's inoperative pipes), description and condition of the outfall(s) (Outfall System Inspection Protocol, Part 2.0) (corrosion, condition of cathodic protection for metal outfalls, bends or breaks), depth of outfall(s) at MLLW, and outfall diffuser description(s), if any.
 - v. **Permanent Markers (if any):** The location of surface or subsurface permanent survey marker monuments, if any.
6. A change sheet at the end of the seafloor survey report attached by the permittee, documenting any changes to the seafloor survey report as required by the permittee. Or, the two documents may be submitted in red-line track changes. Seafloor Survey Reports shall be signed by both the surveyor and by a principal officer or a duly authorized representative of the permittee, documenting review of any changes to the surveyor's original seafloor survey report.
7. If select information required was not obtained, the Seafloor Survey Report must include an explanation as to why the information could not be obtained and submit alternate methods as to how the data should be obtained.

If seafloor surveys or other available evidence submitted by the operator are not sufficient to determine the amount of seafood processing waste deposit coverage and/or whether coverages exceed residues standards, DEC will, in its discretion, require the operator to conduct additional surveys or other monitoring for that purpose.

8. Electronic file submittal requirements.

Electronic Copies of Seafloor Survey Reports.

A copy of the Seafloor Survey Report must be submitted in Adobe Acrobat or Microsoft Word to DEC with the survey year's Annual Report. If GIS files are developed, shape files with supporting metadata shall also be submitted to DEC.

9. Source Control and Remediation Options Evaluation

An evaluation of source control and remediation options is required if a permittee's seafloor survey report documents seafood processing waste coverage(s) regardless of when the waste was deposited.

³ Correlating data - Portions of the information required by #4 may be identified by numbers or letters on the map. The numbers are then used to correspond to the data gathered for each sample plot location and presented in a table format or Excel spreadsheet.

Table 1: Definitions

Continuous coverage	Seafood waste deposits that are found to be 95% or greater areal coverage within a 3-foot by 3-foot sample plot as measured along a transect of the seafloor. At DEC's discretion, will include boulders, rock outcrops, ridges, and other protrusions within an area of continuous coverage that are not covered by seafood waste.
Discontinuous coverage	Means areas of seafood waste deposits that are estimated to cover 10% or more of the seafloor, but less than 95%, within the 3-foot by 3-foot sample plot.
Seafloor Survey Area	To include the entire marine floor operating area where seafood waste deposits may be found. Seafloor areas surrounding a permittee's seafood processing facility, seafloor areas surrounding: seafood transfer devices; vessel and/or barge loading and unloading areas; seafloor areas under bulkheads, ramps, floating walkways, docks, pilings, dolphins, anchors, buoys and other marine appurtenances; outfall terminus location(s) and the length of the outfall line connecting the facility to the point of discharge. Additionally, the survey shall include any seafood waste found at previous outfall terminus locations for those outfalls that have no record of historical seafloor survey; and the marine water and seafloor underlying and connecting these features.
Trace coverage	Means areas of seafood waste that are estimated to cover detectable to less than 10% areal coverage within a 3-foot by 3-foot sample plot.
Detectable	Means any amount of observable seafood waste deposits. In general, seafloor surveyors have reported that seafood deposits must be greater than 2% coverage in the 3-foot by 3-foot sample plot to be evident

Other Approved Sampling Methods

A combination of sampling methods may be used to gather the information identified in this Seafloor Survey Protocol as long as all data gathering and reporting objectives are met.

Sediment Grab Samples to Perform a Survey

A sediment grab sample is often used to supplement a dive survey, video by Remotely Operated Vehicle (ROV), or benthic analysis by sediment profile imaging to assist in organic enrichment analysis and understanding residues settling characteristics and benthic impacts. Grab sampling surveys may be performed instead of a dive survey in areas where a dive survey is not practical due to limiting ambient conditions, very low visibility, or dangerous diving conditions. Grab sampling should not be used when bottom substrate is composed of large boulder type material or bedrock. Various types of sample collection devices and techniques are available. Usually, surveyors are able to push a tube to obtain core samples of the waste pile. In other circumstances where a surveyor is not used, core samples are obtained from a bottom grab sampler, also known as a Van Veen sampler. Obtaining core samples of the top foot of the seafloor has a number of advantages. The benthic life successional stage may be determined if background samples are also obtained, including infaunal and epifaunal species, density, and level of invasive species. Additionally, the true thickness of seafood or other solids deposited on the bottom can be measured depending on the type of the bottom grab sampler. Beggiatoa bacteria may be positively identified through coring/grab sampling if present. Subsurface grain size and type of substrate can be identified. Grab sampling must be augmented by a photographic method, such as a video seafloor survey, to document the presence or absence of macro flora and fauna and to map

the contours of the seafood waste pile deposit. Alternatively, the grab sampler would need attached depth and location instrumentation in order to provide a contour map of the seafood waste deposit area(s).

Benthic Analysis by Sediment Profile Imaging

The benthic analysis by sediment profile imaging (SPI) method has been used in areas of large seafood processing waste coverage or areas of fine material (screened seafood waste) coverage or to assess the health of the benthic community in the area of a deposit. The sediment profile camera works by burying a knife-edged probe that houses a digital camera in the seafloor area being examined, including into the seafood waste deposit area(s). The probe is normally fitted with water depth and location instruments to provide seafloor contour information. The probe has a Plexiglas faceplate cover to collect images of the sediment profile. An internal strobe light is mounted inside to provide illumination. The probe housing the camera descends into the sediment at a slow, controlled rate to prevent the disturbance of the sediment-water interface. After an appropriate time delay, the strobe and camera are activated to obtain a cross sectional image of the upper 20 cm of the sediment column. Depth of penetration by the probe depends on the consistency (i.e., density and hardness of the sediment, thickness) and type of seafood waste deposits and the limit of the probe width. The probe is fitted with lights, a plan view camera, and a laser generated scale to allow determination of the size of objects in the picture that is taken.

This survey method provides information that meets some data objectives, including: benthic life evaluation, estimations of anoxic condition and depth of anoxic conditions, presence or absence of Beggiatoa bacteria, thickness of waste to the limit of the probe, water depth, visual appearance of the bottom, the total area of the seafood waste deposits, and estimates of continuous and discontinuous seafood waste deposit areal extent. However, the method does have its limitations. The method is only suitable for sediments that can be penetrated by the knife probe, requires vessels large enough to handle the probe, and is susceptible to currents moving the vessel. The method is not suitable for characterizing deep deposits of waste, and the costs to complete the survey are usually higher than for other survey methods.

2.0 Outfall System Inspection Protocol

Purpose: The purpose of the outfall system inspection is to verify outfall functionality, ensuring compliance with authorized discharge locations.

The permittee shall perform an operational inspection of the outfall system(s), using such techniques as pressure testing, visual, ROV, dye testing, or diver inspection during each Seafloor Survey to ensure that the outfall system is operable and functioning as designed. The permittee shall record the inspection methods and results and keep the records at the facility and available upon request. Verification of the inspection shall be included in the submittal of the inspection year's Annual Report (See Part 2.8).

The permittee shall cease discharging from a severed, failed, or leaking outfall system as soon as possible, but no more than ten days past discovery of the severance, failure, or damage, with the allowance of enough time to process seafood already offloaded to the facility. Discharging shall be discontinued if the system is unable to be repaired within ten days. Any failure of the outfall system shall be verbally reported to DEC within 24 hours of discovery, and written notification is required within five days of discovery in accordance with Appendix A, Part 3.4 (Twenty-four Hour Reporting).

Permittees shall record:

- Evidence of breaking or dragging, outfall condition and remaining life
- Evidence of leaks by use of fluorescent dye, in-line leak detector monitoring, hydrostatic testing, or pneumatic testing
- System operability
- Cathodic protection
- Log of outfall system repairs
- Photographs of breaks, leaks, damage, floating, etc.
- Pressure tests (both hydrostatic and pneumatic) must always be performed under controlled conditions, following an approved test plan, and documented in a test record. A single approved test plan could be used for several similar tests, but for each test a separate test record is required.

FLUORESCENCE DETECTORS

- Fluorescence forms the basis of one of the most widely used and effective approaches to seafloor outfall leak detection. The use of this approach requires the medium's natural ability to fluoresce or the addition of fluorescent tracers to the medium being detected. Large leak sources have often been located by visual observations from divers or cameras within the water. However, subsea fluorescence technology can provide a more effective detection system and is less restricted by depth while offering the potential to reduce the quantity of dye required. These detectors can be point sensors and have been used successfully with ROVs, and they can provide an indication of leak size from the relative signal intensity. Turbidity within the water column, however, can impede recognition of the desired medium.

Evaluation of Source Control and Remediation Options

The permittee is required to conduct a seafloor survey annually at discharge locations when seafood waste deposit coverage areas greater than detectable are found. An evaluation of options for source control and remediation is required if the permittee's seafloor survey report documents seafood processing waste coverage greater than detectable, regardless of when the wastes were deposited. The permittee must submit the evaluation to DEC within 120 days of discovery of such conditions, unless additional time is requested and granted by DEC.

In considering action on the source control and remediation options evaluation, DEC will consider the total cumulative areas of exceedance of seafood waste deposits; environmental impacts of seafood processing waste; environmental impacts of methods to reduce coverage; the feasibility, reasonableness, effectiveness, and cost of proposed and alternative measures; the timing of recovery under various alternatives; and other pertinent factors. Submittal of source control and remediation options in no way removes DEC's ability to require further studies nor affects DEC's ability to seek future compliance or enforcement actions.

Appendix F – Eiders Monitoring Protocol

The United States Fish and Wildlife Service (USFWS) needs to document mortality of threatened species whenever possible. Fish and Wildlife Service programs that use this information include Endangered Species, Environmental Contaminants, Conservation Planning Assistance (to aid in recovery plans and implementation), and Law Enforcement (for enforcing the Endangered Species Act and other wildlife-related laws), in addition to numerous related research programs. Every dead spectacled and Steller's eider can aid in its species recovery by providing information on eiders found dead.

In the past, this protocol covered handling and transport of injured or sick eiders. Because of avian flu concerns, we cannot currently transport injured or ill eiders for rehabilitation, so we can no longer provide instructions or a protocol for handling them. To minimize your risk, we recommend that you do not contact or handle wild birds that appear to be ill or injured.

Due to concerns about contracting avian influenza from handling bird carcasses, please make sure that you have proper personal protective equipment (PPE) and training prior to observing carcasses. Do not collect or handle carcasses. Protect yourself from fluids and feces by using impermeable gloves, safety glasses, and a mask if necessary when going near (not touching) a bird to assist in determining sex and making observations of the bird(s).

Reporting

Report all dead spectacled and Steller's eiders as soon as possible. If there is no reason to suspect that the bird(s) died as the result of any illegal activity, you should attempt to contact the following people, in the order listed, until you reach someone.

1. Angela Matz, USFWS, Fairbanks: (907) 456-0442 work
2. Ted Swem, USFWS, Fairbanks: (907) 456-0441 work
3. Anchorage Fish and Wildlife Field Office, USFWS, Anchorage: (800) 272-4174 toll free, (907) 271-2888 work
4. Robert Suydam, North Slope Borough Department of Wildlife Management, Barrow: (907) 852-0350

If you encounter any dead spectacled or Steller's eiders that you suspect may have died as a result of an illegal act such as shooting, a Service Law Enforcement Officer should be notified immediately. Ensure that one of the individuals in the above list is also contacted in these instances.

You should be prepared to report any observations and/or knowledge you might have regarding the incident, and you may be provided with additional instructions regarding proper custodial handling techniques, which will allow a Special Agent to follow-up with an investigation into the incident.

USFWS, Office of Law Enforcement:

- Fairbanks: (877) 535-1795 toll-free, (907) 456-2335, (907) 456-2356 fax
- Nome: (907) 443-2479, (907) 443-2938 fax
- Anchorage: (800) 858-7621 toll-free, (907) 271-2828, (907) 271-2827 fax
- Regional Office, Anchorage: (907) 786-3311, (907) 786-3313 fax
- Juneau Office: (907) 586-7545, (907) 586-7574 Fax

Your report should include:

1. Species, age, sex, and number of birds, date, time and location (latitude and longitude and area name).
2. Suspected cause of death.
3. Circumstances under which found.
4. If known, the names of witnesses or suspects, and a description of any vehicles or boats involved (but, non-law enforcement individuals are not expected to conduct investigations or obtain information that is not readily available).

If a camera is available, photograph birds and other evidence such as shotgun shells or casings, and persons and vehicles involved. Note photo date, time, and location. You should put all this information, plus any additional details you think important (such as location of nearest power line), in a short written narrative.

Appendix G – Pre-Installation / Pre-Discharge Biological Survey

Survey Purpose

The pre-discharge survey shall provide adequate site-specific information to indicate whether the proposed discharge will meet the requirements of an APDES seafood processing permit and to document the coastal marine or estuarine biological resources (including habitat) which may be affected by the discharge, installation of any outfalls and any existing solids and or residues, such as seafood processing waste and wastewaters, in the discharge area.

Submittal of Information

The results of the pre-discharge survey shall be submitted with the submittal of new NOI, with an updated NOI at an existing facility's re-startup (after 12 months of no discharge), or with a modified NOI, when moving the location of a broken outfall line in installation of a new outfall line. The survey shall have been performed within the last 6 months, but prior to new outfall placement, or prior to re-startup of a facility which has not discharged for a period of greater than 12 months. The report shall provide transect sample plot data, a summary of the survey, and whether the discharge area is appropriate for the proposed discharge, with careful consideration of critical habitat or sensitive resource areas. The pre-discharge survey may be performed using a photographic survey method, but if any existing deposits are found within the survey area, a dive survey will be required. The dive survey performed will follow the Seafloor Survey Protocol found in this permit Appendix E. The pre-biological survey data for biological resources shall be submitted in writing, and may include the submittal of a narrated underwater video to the Department.

Quality Assurance Project Plan Information

The operator shall, prior to commencing survey operations, prepare a written, facility specific Quality Assurance Project Plan- Monitoring Plan (QAPP-Monitoring Plan) addressing the following:

1. Objectives for measurement data
2. Sampling procedures
3. Analytical procedures
4. Data reduction, validation, and reporting
5. Internal quality control checks
6. Specific routine procedures used to assess data precision, accuracy, completeness, representativeness, and comparability.

Survey requirements

The pre-discharge survey shall include a representative description of the numbers and species of marine organisms, types of aquatic vegetation/benthic fauna, and depths and substrate types where organisms/vegetation/benthic fauna are found within a 300-foot radius of the center of the proposed discharge location (proposed outfall terminus).

If seafood waste discharge has not occurred at the proposed plot, a photographic survey (performed by Remotely Operated Vehicle (ROV) may suffice and the Department may not require a dive survey, establishment of hard transect lines or a central permanent marker. However, a rigorous, repeatable method shall be set out in a QAPP-Monitoring Plan. For example, the center of the proposed discharge area shall be located by triangulation from three land points and by Wide Area Augmentation System (WAAS)/ Global Positioning System (GPS) (reported in decimal degrees, to the fifth decimal place, if available, using the North American Datum (NAD) 1983 or World Geodetic System (WGS) 1984 datum). The accuracy of coordinates shall be at least within ± 50 feet (17 meters)) and the depth of the (proposed) outfall location, reported depth at MLLW. If there are any significant benthic features that would help with re-locating the exact position of the (proposed) outfall, (e.g. a unique rock feature) then this information is to be marked on the location map. The survey may be performed at the surface at low tide stage, without performing a dive survey if the representative habitat and water clarity is such that the pre-biological survey data is collected and data objectives can be met.

Establish Markers.

A surveyor's QAPP-Monitoring Plan is required to include the establishment of at least five permanent shore-based or facility-based markers (monuments) at suitable locations, provided there is sufficient land/facility property to place five monuments. Some facilities are located over water, or the operator does not own the land the seafood processing facility is located on, thus making installation of permanent markers infeasible. The survey is required to document useable permanent underwater markers (large rock outcrops, boulders, etc.) or identify why markers/monuments were not established. If permanent markers are not established the operator shall work with the surveyor to establish repeatable methods for future surveyors to make observations and establish consistent transects. The operator's QAPP-Monitoring Plan is required to be updated to include the surveyor's established underwater markers for use in the next required seafloor survey. GPS coordinates derived using WAAS technologies, or other equivalent technology, are required to be recorded for each permanent shore or underwater marker.

Establish Transect Lines.

The surveyor must establish transect lines for the entire Pre-installation / Pre-Discharge Survey Area. The operator's QAPP-Monitoring Plan must develop and document the methods used to establish the transect lines. Parallel transects are required to be established no more than 30 feet apart and extend in a perpendicular direction from the permanent markers.

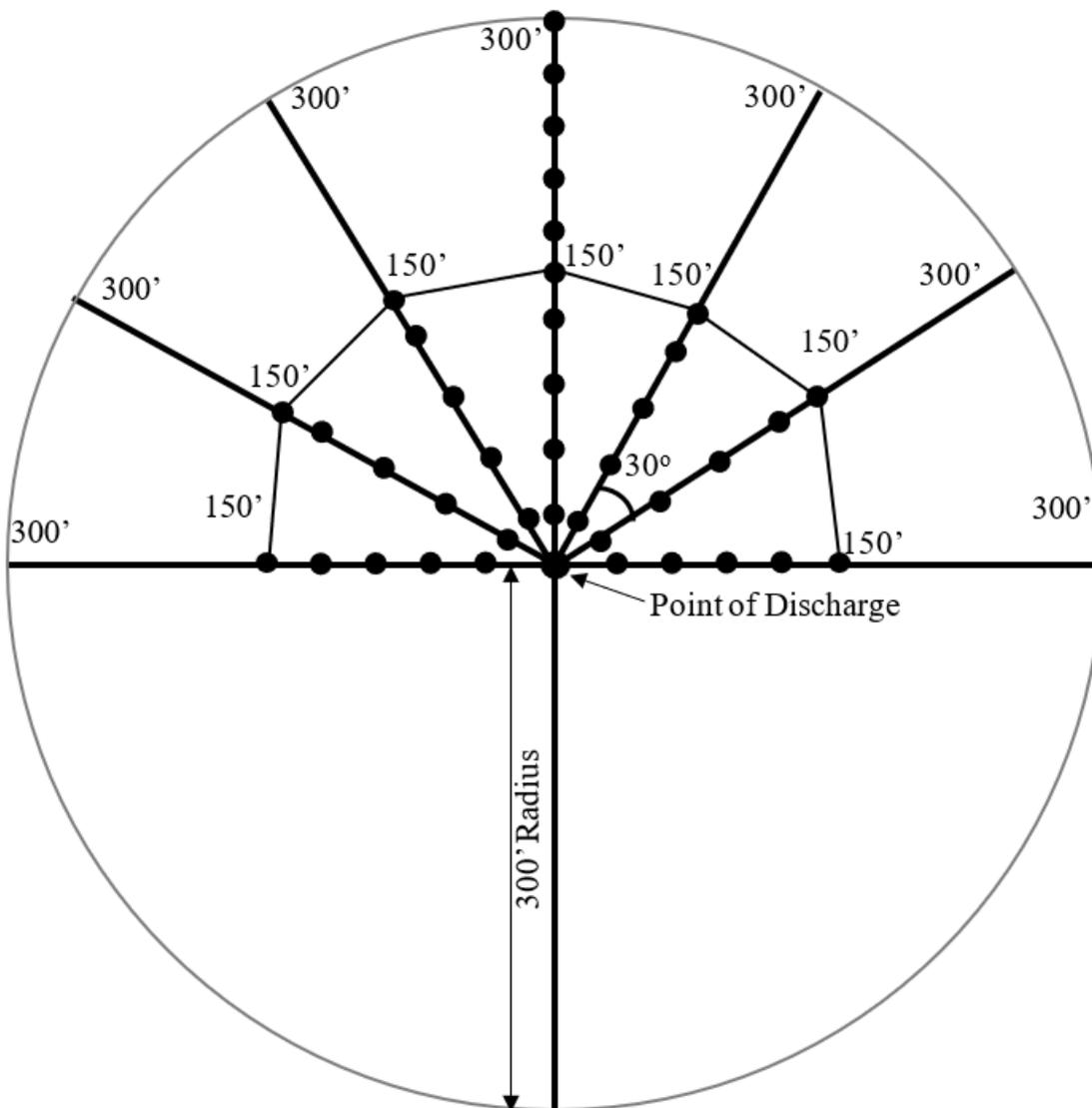
The survey shall use radial or parallel transects located surrounding the outfall terminus with a 300 foot radius at the proposed outfall terminus depth. Determine the number of transects (shall meet a minimum of at least nine) which will most accurately delineate the area surrounding the center of the discharge location and the area of any seafood waste accumulation, if present.

Surveys using **Radial Transects**: Use the discharge point as the central marker of the survey. GPS coordinates derived using WAAS technologies shall be recorded at the location of the proposed or established discharge point and the center of the survey (reported in decimal degrees to the fifth decimal place if available). Establish a minimum of at least five transects radially from the location of the proposed outfall terminus. The number of transects should be adequate to cover the entire estimated area of discharge (at least a 300-foot radius around the point of discharge) and any historic seafood waste

accumulation. If historic seafood waste accumulations are found, the operator is required to have the surveyor complete a seafloor dive survey following the Appendix E, Protocol for a minimum of 300 feet from the proposed outfall terminus (or as determined by DEC).

The following diagram (Figure 1) shows “typical” radial transects set 30 degrees apart. Points of measurement are at 30-foot intervals spaced on the survey transects, which extend along a 300-foot radius from the point of discharge.

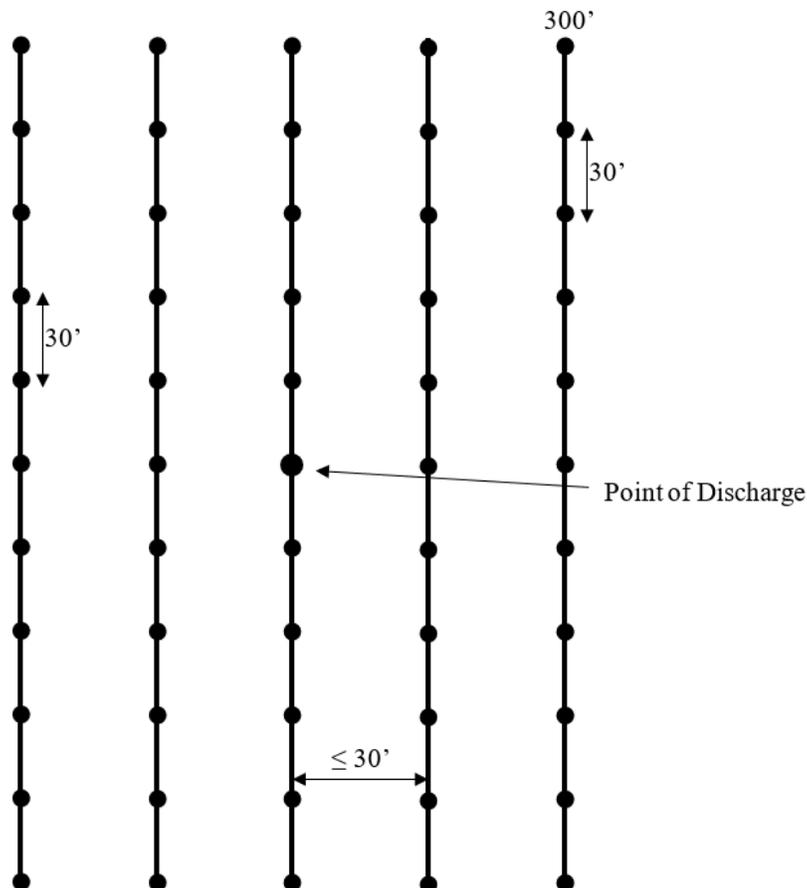
Figure 1 – Example of Radial Transect



Surveys using **Parallel Transects**: Use the discharge point as the central marker of the survey. GPS coordinates derived using WAAS technologies shall be recorded at the location of the discharge point (reported in decimal degrees to the fifth decimal place if available). A minimum of three (3) parallel transects should be established, with the center transect passing through or near the discharge point required. Transects should be no more than 30 feet apart and the number and length of transects should be adequate to cover the entire estimated area of discharge (at least a 300-foot radius around the point of discharge) and any historic seafood waste accumulations. Sample plots shall be identified at 30-foot increments along the transect lines. The sample plot's area shall be 3-foot square.

The following diagram (Figure 2) shows “typical” parallel transects set no more than 30 feet apart. Points of measurement are at 30-foot intervals along the transect lines.

Figure 2 – Example of Parallel Transects



Reporting

Pre-biological Survey Report. Within 30 days of completing the pre-biological survey, a facility operator shall submit a report to DEC that contains the following information:

I. Facility Information

- A. Permittee Name, APDES permit number, address, and contact information.
- B. Type of waste treatment processes, product and by-product production processes.

II. Surveyor and Survey Information

- A. Name and contact information of the surveyor.
- B. Brief background of surveyor’s previous work history performing photographic seafloor surveys and mapping.
- C. Date and time the survey was completed.
- D. Vessel Name, USCG number of vessel assisting in survey.
- E. Name of the receiving water where the survey was completed.
- F. Whether there are other seafood waste discharges within 0.25-mile of the discharge.

- G. Information on whether a seafood processing discharge was occurring during the time(s) of the survey.
- H. Method used to:
 - 1. Establish markers (if placed)
 - 2. Establish transects
 - 3. Located sample plot's grid locations along the transects,
 - 4. Record the required sample plot data.
- I. Table or narrative with a summary of findings from video transects and sample plot surveys.
- J. A photographic log with photo number, transect number/ sample plot and photograph description, including GPS data collected from sample plots, shall be recorded and submitted electronically. Color photographs shall minimally be 3-inch x 5-inch and no more than four to a page.
- K. For pre-installation surveys in the vicinity of a proposed outfall or discharge, recommendations for the location of the discharge at the proposed location or at an alternative location that would have less adverse impact to the sea floor community.

III. Sample Plot Location. Each sample plot location shall include the following:

- A. **Digital photographs.** Digital photographs are required to:
 - a. Depict the nature and coverage of seafood waste deposit(s), if any, on the seafloor at sample plot locations along radial or parallel transects.
 - b. Capture images of natural sediment, natural sediment covering seafood processing waste, if observable, and/or seafood waste covering sediment.
 - c. Be of sufficient definition, clarity, and detail to clearly document the conditions present on the seafloor.
 - d. Include a digital date and time stamp.
 - e. Be compiled into a photographic log to include the photographic sample plot location identifier.
 - f. Video recordings and photographs are required to be submitted electronically. If feasible, the electronic copy of the report, GIS/GPS map layers, video recordings and photographs are required to be submitted at the same time.
- B. **Beggiatoa or other types of Bacterial Mats.** Document the absence or presence, as well as size and location of Beggiatoa, or other microbial mats observed on or near any seafood waste deposits, or the seafloor if waste deposits are not evident. All Beggiatoa, or other bacterial mat areas shall be counted as continuous coverage.
- C. **Sea Flora and Fauna.** Type and number of macro sea fauna (sea life) and type of aquatic vegetation observed on the seafloor during the photographic survey. Types and quantities of sea life observed adjacent to, on, in, or feeding on any seafood processing waste deposits during videotaping, along with representative photos, that include time and date stamps. Mention should be made of any indication of change in sea life behavior from any previous observation or seafloor survey reports, and any other observations relevant to the condition of the benthic community or seafloor.

- D. **Hydrology.** Report ambient tidal current velocity and direction, and water chemistry (both seasonal and in-situ on the day of the survey, including salinity, water temperature, density, turbidity, DO and pH). These parameters should be taken as a grab sample or using a probe at the proposed outfall terminus location and proposed depth of outfall.
- E. **Substrate.** Composition of substrate (soft sediments, cobble, gravels, solid rock and/or glacial silts, or ground/screened seafood processing waste solids, etc.).
- F. **Water depth.** (adjusted to MLLW, reported in feet) The depth shall be reported with the bottom reading measured at the seafloor, or at the top of any sample plot.
- G. **Plume Size.** If actively discharging at time of survey, the estimated height (rise) and length of any observed discharge plume during the photographic survey. The surveyor shall note any changes in benthic habitat or sea flora/fauna use near the outfall terminus and at 100' from the outfall terminus in the plume, or under the influence of the plume.
- H. **Water Clarity.** A description of water clarity and changes of water clarity as a result of the discharge, if occurring.

If select information required in the Pre-biological Survey Report is not obtainable using the video/camera methods described above, the Report shall include an explanation as to why the information could not be obtained.

Other Approved Sampling Methods

A combination of the sampling methods may be used to gather the information identified in this Pre-Installation Protocol as long as all data gathering and reporting objectives are met.

Sediment Grab Samples to Perform a Survey. A sediment grab sample is often used to supplement a dive survey, video by ROV, or benthic analysis with sediment profile imaging. Grab sampling surveys may be performed instead of a dive survey in areas where a dive survey is not practical due to limiting ambient conditions, very low visibility, or dangerous diving conditions. Grab sampling should not be used when bottom substrate is composed of large boulder type material or bedrock. Various types of sample collection devices and techniques are available. Often sediment and seafood waste identification is possible using push tube, core samples that are collected by the surveyor. In other circumstances where a diver is not used, core samples are obtained from a bottom grab sampler, also known as a Van Veen sampler. Obtaining core samples of the top foot of the seafloor has a number of advantages. The benthic life successional stage may be determined, if background samples are also obtained, including infaunal and epifaunal species, density, and level of invasive species. Additionally, the true thickness of seafood or other solids deposited on the bottom can be measured depending on the type of the bottom grab sampler. Beggiatoa bacteria maybe positively identified through coring/grab sampling, if present. Subsurface grain size and type of substrate can be identified. Grab sampling is required to be augmented by a photographic method, such as a video seafloor survey, to document the presence or absence of macro flora and fauna, and/or beggiatoa mats. Alternatively, the grab sampler would need an attached depth and location instrumentation in order to provide a contour map of seafloor.

Benthic Analysis by Sediment Profile Imaging. The benthic analysis by sediment profile imaging (SPI) method has been used in areas of large seafood waste coverage or areas of fine material (screened seafood waste) coverage or to assess the health of the benthic community in the area of a deposit. The

sediment profile camera works by burying a knife edged probe that houses a digital camera into the waste pile. The probe is normally fitted with water depth and location instruments to provide seafloor contour information. The probe has a Plexiglas faceplate cover to collect images of the sediment profile. An internal strobe light is mounted inside to provide illumination. The probe housing the camera descends into the sediment at a slow, controlled rate to prevent the disturbance of the sediment-water interface. After an appropriate time delay, the strobe and camera are activated to obtain a cross sectional image of the upper 20 cm of the sediment column. Depth of penetration by the probe depends on the consistency (i.e., density and hardness of the sediment, thickness and type of seafood waste deposits, and the limit of the probe width). The probe is fitted with lights, a plan view camera and a laser generated scale to allow determination of the size of objects in the picture that is taken.

This survey method provides information that meets some data objectives, including: benthic life evaluation, estimations of anoxic condition and depth of anoxic conditions, presence or absence of Beggiatoa bacteria, thickness of waste to the limit of the probe, seafloor contours and water depth, visual appearance of the bottom, the total area of the seafood waste deposits, and estimates of continuous seafood waste deposit volume and discontinuous waste deposits areal extent. However, the method does have its limitations. The method is only suitable for sediments that can be penetrated by the knife probe, requires vessels large enough to handle the probe, and is susceptible to currents moving the vessel. The method is not suitable for characterizing deep deposits of waste, and the costs to complete the survey are usually higher than other survey methods.

ATTACHMENT A. NOTICE OF INTENT

AKG528000 NOI Form

	<p>Notice of Intent (NOI) APDES General Permit AKG528000 Seafood Processors Operating Onshore Facilities in Kodiak, Alaska</p>				
<p>Submittal of this document constitutes notice that the party identified in Section II intends to be covered by the APDES permit authorizing discharges and obligates the operator to comply with the terms and conditions of the AKG528000 permit.</p>					
Section I. Permit Information					
Currently Assigned APDES Permit No.(s) or Previous NPDES No.(s):					
DEC Environmental Health processor permit No.:					
Section II. Operator / Responsible Party Information					
Company/Organization Name:					
On-Site Contact Person:				Title:	
Authorized Representative Name or Title:					
Facility Physical Location	Street:				
	City:		State:		Zip:
	Phone:			Fax (optional):	
	Email				
Front Door Latitude:				Front Door Longitude:	
Mapping Technique:				Datum:	
Mailing Address	Street (PO Box):				
	City:		State:		Zip:
	Phone:			Fax (optional):	
	Email:				
Section III. Billing Contact Information					
Company/Organization Name:					
Contact Person:				Title:	
Mailing Address [] Check if same as Operator Information.	Street (PO Box):				
	City:		State:		Zip:
	Phone:			Fax (optional):	
	Email:				

Section IV. Owner (Do not identify lessee name, identify building owner name)						
Company Name:						
Contact Person:		Title:				
Mailing Address <input type="checkbox"/> Check if same as Operator Information.	Street (PO Box):					
	City:		State:		Zip:	
	Phone:			Fax (optional):		
	Email:					
Section V. Seafood Processor Onshore Facility Information						
Current Facility Name:						
Previous Name(s) of Facility Over the Last Five Years			Date of Name Change			
1.						
2.						
<input type="checkbox"/> Yes <input type="checkbox"/> No	Do you plan to have processing support vessel/barges?					
If Yes, describe in what capacity (freezing/processing, etc.) in the Outfall Narrative and outfalls on Attachment A-1.						
Section VI. Seafood Processing and Other Discharge Information						
<p>As part of your 'Outfall Narrative,' fill out Attachment A-1. Identify seafood processing outfall(s) and associated seafood processing commodity line(s) discharges. Attachment A-1 requires the reporting of latitude and longitude in decimal degrees, using NAD 1983 or WGS 1984 datum of each outfall terminus. Identify each outfall's associated discharges, including but not limited to:</p> <ul style="list-style-type: none"> • Main butchering commodity lines (e.g., Salmon Fillets/Mince, Pollock Fillets, H&G salmon, H&G herring, crab, shellfish, etc.). • Washed mince/paste commodity lines (e.g., Pet Food mince/paste, human consumption surimi, minced fish – identify whether washed pollock mince/paste). • By-product commodity lines (e.g., Fish Meal plant, Fish Oil plant, Fish Hydrolysate, other - identify). • Other outfall discharges – If any of these are discharged through outfalls identified above, list under the appropriate outfall (e.g., Cooling water, boiler water, cooking water (including retort water), refrigeration condensate, refrigerated seawater, transfer water, live tank water, air scrubber water, freshwater pressure relief water, etc.). 						
<input type="checkbox"/> Yes <input type="checkbox"/> No	Do you send your waste to another seafood processing facility or another by-product commodity line/facility?					

Section VII. Incoming Water (seawater cooling water intakes and other)

Each incoming fresh water and /or seawater supply location shall be identified in the **NOI Attachment A-1** submittal. Include stream withdrawal location(s), municipal or industrial water intake structures, or other (please describe) within 1.0 nm of outfall terminus(es).

For the facility's own intakes: Identify each seawater intake(s), fresh water municipal supply intake(s), well location(s), stream withdrawal location(s), and/or Other (please describe), the latitude and longitude in decimal degrees, and the maximum daily intake volume (mgd), average monthly flow (gallons), and average annual flow (gallons) of each water intake location.

For other intakes: Identify each seawater intake(s), fresh water municipal supply intake(s), well location(s), stream withdrawal location(s), and/or Other (please describe), and the latitude and longitude in decimal degrees.

Section VIII. Storm Water Discharges

Does your facility intend to discharge commingled storm water to receiving waters? Yes No

Do you have APDES Multi-sector General Permit (MSGP) storm water permit coverage?
 Yes No

If Yes, provide the current APDES MSGP Authorization Number

If No, provide the date the No Exposure Certification was submitted to DEC.

A seafood processing facility whose raw materials (fish) or intermediate, by-product, final, or waste seafood processing products are not protected by storm water resistant shelter to prevent the fish or products from being exposed to rain, snow, snowmelt, and/or runoff does not qualify for a No Exposure Certification.

Or, does your facility discharge into a Municipal Separate Storm Sewer System (MS4)? Yes No

If yes, name of the MS4 Operator:

Section IX. Refueling Capability

Do you refuel fishing vessels? Yes No

If yes, what is the capacity of your refueling tanks?

Section X. Submittals with the NOI – These are required attachments. If they are not attached to your NOI, your application will be deemed incomplete.

NOI Attachment A-1 – Fill out all four tabs of the Excel spreadsheet.

Area Map. A legible area map and coordinates of the location of the processor (front door) and all outfall terminus locations, ‘Other outfalls,’ commingled storm water, and incoming water (see Section VII above). These mapped outfall and incoming water supply features shall also be clearly correlated to the Line Drawing submitted with the NOI. The map shall be based upon an official map of the U.S. Geologic Survey (USGS) of a scale of resolution from 1:20,000 to 1:65,000. The Global Positioning System (GPS) coordinates (latitude and longitude) of each proposed discharge location shall be reported in decimal degrees, to the fifth decimal place, if available (North American Datum (NAD) 1983 or World Geodetic System (WGS) 1984 datum). The accuracy of coordinates shall be at least within ±50 feet (17 meters). Additional map (map layer) identifying whether the facility or any outfall is located within NMFS or U.S. Fish and Wildlife Service designated critical habitat area.

Bathymetric Map. A bathymetric map of the receiving water within one nautical mile of the discharge(s).

Line Drawing. The operator shall submit a line drawing of the water flow through the facility. Submit line drawings that document rates/volumes of each discharged waste stream through the facility. The line drawings must contain flow through the facility operations as water enters the facility (intakes), through processing lines, treatment units, and both internal and end-of-pipe monitoring locations for each outfall, as applicable.

<input type="checkbox"/>	Outfall Narrative. A narrative identifying each type of process, operation, or production area that contributes wastewater to the effluent for each outfall, treatment systems, and disposal method.
<input type="checkbox"/>	Proposed Commodity Line ELG Calculations
<input type="checkbox"/>	Storm Water Evaluation: Verification the operator has filed for APDES AKR060000 MSGP coverage or has filed a No Exposure Certification with DEC.
<input type="checkbox"/>	Pre-Installation Outfall Survey (for new outfall installation and outfalls w/no discharge in 12 months)
	Any other information required per 18 AAC 83.310.

XI. Certification Information

An Alaska Pollutant Discharge Elimination System (APDES) permit application must be signed by an individual with the appropriate authority per [18 AAC 83.385](#).

APDES Permits

Corporate Executive Officer 18 AAC 83.385 (a)(1)(A)	For a corporation, a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation.
Corporate Operations Manager 18 AAC 83.385 (a)(1)(B)	For a corporation, the manager of one or more manufacturing, production, or operating facilities, if (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations; (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
Sole Proprietor or General Partner 18 AAC 83.385 (a)(2)	For a partnership or sole proprietorship, the general partner or the proprietor respectively.
Public Agency, Chief Executive Officer 18 AAC 83.385 (a)(3)(A)	For a municipality, state, or other public agency, the chief executive officer of the agency.
Public Agency, Senior Executive Officer 18 AAC 83.385 (a)(3)(B)	For a municipality, state, or other public agency, a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Organization:	Name:	Title:
Phone:	Fax (optional):	Email:

ATTACHMENT A-1. NOI ATTACHMENT

Instructions for Completing the AKG528000 Notice of Intent (NOI) Attachment A Form

Who Must File an NOI Form

Operators of non-remote onshore seafood processing facilities located in a designated “processing center or population center” as described in 40 Code of Federal Regulations (CFR) Part 408, that discharge pollutants generated at the seafood processing facility to waters of the U.S., must submit an NOI to obtain coverage under the AKG528000 permit.

Completing the Form

Obtain and read a copy of the AKG528000 permit. Type or print on the NOI form, in the appropriate areas only. “N/A” can be entered in areas that are not applicable. If you have any questions about how or when to use this form, contact the DEC Wastewater Discharge Authorization Program at (907) 269-6285 or online at <https://dec.alaska.gov/water/wastewater/>.

Section I. Permit Information

Provide your APDES permit number, if any.

Section II. Operator/Responsible Party Information

Provide the legal name of the firm, public organization, or other entity that operates the facility described in this application, and the name and title of the facility contact person. An operator of a facility that prepares raw fish or shellfish into a marketable form is a legal entity that controls the seafood waste discharge and is not necessarily the owner. Also provide the authorized representative’s name and title and the operator’s mailing address, telephone number, fax number (optional), and e-mail address (to be notified via e-mail of NOI approval when available). Correspondence for the NOI will be sent to this address. Provide the physical address, phone number, fax number (optional), e-mail, and GIS coordinates, reported to the fifth decimal point, for the facility’s front door. Datum should be NAD83 or WGS84.

Section III. Billing Contact Information

Provide the company/organization name, as well as the name and title of the billing contact that is responsible for accounts payable for this permit. Also, provide the billing contact’s mailing address, telephone number, fax number (optional), and email address. Correspondence for billing purposes will be sent to this address. If the billing contact is the same as the operator, you may skip this section and check the box indicating so.

Section IV. Owner Information

Provide the name of the company that owns (not

leases) the facility described in this application, and the name and title of the contact person. Also, provide the owner’s mailing address, telephone number, fax number (optional), and e-mail address. If the owner’s contact information is the same as the operator’s information, you may skip this section and check the box indicating so.

Section V. Onshore Facility Information

Provide the current facility name and any previous names used during the last five years. Also check whether you plan to utilize support barges docked at your facility to assist with processing. If so, discharges from the docked vessels must be included on Attachment A-1 and in the Outfall Narrative.

Section VI. Seafood Processing and Other Discharge Information

Complete an Outfall Narrative and Attachment A-1 (see the separate Instructions for Attachment A-1 instructions sheet below the instructions for Section XI) for all of the facility’s discharges to waters of the U.S. Provide a map showing the front door, discharge locations (including sampling locations for docked vessels), and incoming water supply locations, all with GPS coordinates. Ensure that the mapped intakes and outfalls are consistent with the facility Line Drawing. Identify the annual amount of seafood waste (in lbs) sent to another processing facility or to a by-product facility.

Section VII. Incoming Water

Ensure that all freshwater and seawater intake locations are identified on the area map and described in Attachment A-1.

Section VIII. Storm Water Discharges

Indicate whether the facility is covered under the APDES Multi-sector General Permit, has submitted a No Exposure Certification to DEC, or discharges to a Municipal Separate Storm Sewer System.

Section IX. Refueling Capability

Indicate whether the facility has the capability to refuel fishing vessels and, if so, the capacity of the refueling tank(s).

Section X. Submittals with the NOI

Area Map – Mark and include decimal degree coordinates for the facility front door, all outfalls to waters of the U.S. (including from docked vessels), and all incoming water supply locations. Provide an overlay map showing designated critical habitat areas within 1.0 nm of the facility or outfall(s), if any.

Bathymetric Map – Must cover the receiving waters within 1.0 nm of all discharges. May be combined with the area map.

Instructions for Completing the AKG528000 Notice of Intent (NOI) Attachment A Form

Outfall Narrative – For each outfall, provide a narrative describing all effluents discharged from that outfall. Include production areas/operations that contribute wastewater, wastewater routing, and any treatment systems in place prior to the discharge.

Line Drawing – Depict water flow through the facility, including volumetric rates of flow through water intake points, processing lines, treatment units, and internal and final monitoring locations for each outfall. Multiple drawings may be submitted for different processing scenarios.

Proposed Commodity Line ELG Calculations – Submit sample calculations, based on the methodology in Appendix D, demonstrating the permittee’s understanding of how to calculate facility-specific effluent limitations.

Attachment A-1

See Instructions sheet below Section XI.

Storm Water Evaluation – An operator discharging storm water to waters of the U.S. must either have coverage for that discharge under the APDES MSGP permit or have filed a No Exposure Certification with DEC. Verify that one is true for your facility.

Engineered Plan Review – Verify that the facility’s non-domestic wastewater conveyance and discharge system has received approval to operate from the DEC’s Engineering Support and Plan Review group. Either provide proof of Approval to Operate or indicate that you plan to submit engineering plans for the Department to review.

Section XI. Certification Information:

The NOI must be signed as follows:

(1) For a corporation, a responsible corporate officer shall sign the NOI, a responsible corporate officer means:

(A) a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation; or

(B) the manager of one or more manufacturing, production, or operating facilities, if

(i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital

investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations;

(ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and

(iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.

(2) For a partnership or sole proprietorship, the general partner or the proprietor, respectively; or

(3) For a municipality, state, or other public agency, either a principal executive officer or ranking elected official shall sign the application; in this subsection, a principal executive officer of an agency means

(A) the chief executive officer of the agency; or

(B) a senior executive officer having responsibility for the overall operations of a principal geographic unit or division of the agency.

Include the name, title, phone number, fax number (optional), mailing address, and email address of the person signing the form and the date of signing. If the mailing address is the same as for the operator, check the box specifying so. An unsigned or undated NOI form will not be considered valid application for permit coverage.

NOI Preparer

If the NOI is prepared by someone other than the certifier, provide that person’s organization, name and title, mailing address, telephone number, fax number (optional), and e-mail address. If the mailing address is the same as for the operator, check the box specifying so.

Instructions for A-1 Form - Completing the Excel spreadsheet for AKG528000 Notice of Intent (NOI)

Outfalls Tab

Column A – Enter your facility Name

Column B – List the waterbody the outfall discharges to.

Column C – Outfall Name or Number. Identify each outfall by the same name or number that it is referenced under in the Outfall Narrative, on the Area Map, and in the Line Drawing.

Column D – Datum. Identify the datum used to report latitude and longitude. Permittees are required to use either NAD 1983 or WGS 1984.

Column E – Latitude. Provide each outfall's latitude coordinate in decimal degrees to at least five decimal places.

Column F – Longitude. Provide each outfall's longitude coordinate in decimal degrees to at least five decimal places.

Column G – Length of Outfall from Shore. Provide distance between the shoreline at MLLW and the outfall terminus.

Column H – Receiving Water Depth. Provide the depth of the receiving water (according to published NOAA bathymetric charts, reported at MLLW) where the outfall terminus is located. If the outfall does not lie directly on the seafloor, then often Column H and Column I will be different numbers.

Column I – Outfall Depth. Provide the depth beneath or above the water surface (at MLLW) that each outfall terminus is located.

Column J – Critical Habitat or TMDL listing. If the outfall is located in critical habitat or the waterbody is listed as on the Alaska Integrated Report as impaired, provide that information in this column.

Column K – Average Current. Enter the average current speed within 300 feet of each outfall terminus. Include supporting documentation.

Column L – Types of Effluent Discharged. List all of the effluent types discharged from each outfall, separated by commodity line or other process contributing wastewater to the outfall. For each Commodity Line, identify the type of seafood processing (commodity line) that occurs and will contribute to wastewaters discharged.

Column M – Estimated Dates of Discharge. List the full range of dates when wastewater is discharged from the outfall.

Column N – Type of wastewater. List the type(s) of wastewater being discharged. In example, screened seafood processing wastewater, other

wastewaters such as ice machine drain, retort, engine room drain, commingled storm water and seafood, seafood ww to vessel that will discharge while docked.

Column O – By-Product Production - Indicate if your facility produces by-products on site, such as fish meal, hydrolysate, fish powder.

Column P – Screen Systems. For each outfall, list the types and numbers of each screen system used to treat wastewater at the facility. List the screen location (after all commingling, internal screen after salmon line, etc.)

Column Q – Screen Size. Provide each screen's corresponding hole size (e.g., 1 mm x 20 mm)

Column R – Monthly lbs carcasses sent to byproduct facility. Total for all species processed.

Column S - Maximum Daily Discharge Volume. For each outfall, list the maximum volume of effluent to be discharged during a single day (24-hour period).

Column T - Average Monthly Discharge Volume. For each outfall, list the average flow rate (mgd) over a calendar month.

Commodity Line Info Tab

Column A – Outfall Name or Number. Identify each outfall by the same name or number that it is referenced under in the Outfall Narrative, on the Area Map, and in the Line Drawing.

Column B – Commodity Lines. List any commodity lines contributing wastewater to the outfall.

Column C – Estimated Dates of Discharge. List dates separately for each commodity line or other process or discharge water contributing wastewater to the outfall.

Column D – Type of wastewater. List the type(s) of wastewater being discharged. For example, screened seafood processing wastewater, other wastewaters such as ice machine drain, retort, engine room drain, commingled storm water and seafood, seafood ww to vessel that will discharge while docked.

Column E– Raw Production Capacity – For each commodity line, list the amount of raw product that can be processed in a year on that line. Use historical operations and/or design capacity to guide the estimate. Permittees should identify all commodity lines they may process during the year.

Column F - Final Seafood Processing Product – For each outfall, list species processed (commodity lines) and

Instructions for A-1 Form - Completing the Excel spreadsheet for AKG528000 Notice of Intent (NOI)

average yearly pounds of final products made from that species.

Column G – By-Product Production - Indicate if your facility produces by-products on site, such as fish meal, hydrolysate, fish powder.

Column H – List the types of By-Products Produced.

Outfall Pollutants Tab

For each outfall, list maximum and average daily concentrations of all effluent parameters monitored in the AKG528000 permit (total suspended solids, oil & grease, BOD₅, total residual chlorine, total ammonia, pH, and temperature). If no historic data is available, permittees shall have the effluent analyzed for all of the listed parameters and submit the laboratory results with the NOI. This tab is only required for outfalls not previously permitted under the AKG528000.

Intake Tab

Intake Name or Number - Identify each intake by the same name or number that it is referenced under in the Area Map and in the Line Drawing.

Latitude/Longitude – Provide intake coordinates in decimal degrees to at least five decimal places. Datum used should be either NAD83 or WGS84.

Intake Structure Depth – Provide the depth beneath the water surface (at MLLW) that the intake water is pumped from.

Intake Volumes

Self report your facility's own projected volumes of intake water.

Where to File the NOI Form (Remember to retain a copy for your records.)

Dept. of Environmental Conservation
Division of Water
Wastewater Discharge Authorization
555 Cordova Street
Anchorage, AK 99501
Telephone (907) 269-6285
Fax (907) 269-3487
Email: dec.water.seafoodpermitting@alaska.gov

Attachment B - Sea Surface and Shoreline Visual Monitoring & Photo Log

The permittee shall have a trained personnel¹ record the occurrence and approximate numbers of animals identified as Black-legged Kittiwake (*Rissa tridactyla*), Western Steller sea lions (*Eumetopias jubatus*), Steller's eiders (*Polysticta stelleri*), Short-tailed Albatross (*Phoebastria albatrus*), and Southwest Alaska Distinct Population northern sea otters (*Enhydra lutris kenyoni*) within the survey area. (Note if injured or dead and probable cause.)

	
Steller's eider	Black-legged Kittiwake

¹ Permittees reporting shall ensure personnel at the facility are capable of identifying the listed endangered and threatened species.

Attachment B - Sea Surface and Shoreline Visual Monitoring & Photo Log



Steller sea lion



northern sea otter



Short-tailed Albatross (adult and chicks)



Short-tailed Albatross (sub-adult)

Attachment C- Seafloor Survey Summary Report

Operator Information		APDES Permit Number: AKG528_____	
Name:		Company:	
Address:		Facility:	
Email:		Fax:	
Phone:		Waters discharged to:	
Surveyor name:		Survey location in degrees, minutes, and seconds, or decimal degrees:	
Surveyor phone:			
Diver name(s) if different from the surveyor:		Survey start date:	
Diver phone:		Survey end date:	
Surveyor address:		Signed survey report attached: <input type="checkbox"/> Yes <input type="checkbox"/> No	
Photos of waste pile attached: <input type="checkbox"/> Yes <input type="checkbox"/> No		Measurement method:	
Survey method Diver ROV Video Grab Sample SPI		NOAA reported current direction and speed:	
Field measurements and calculations attached: <input type="checkbox"/> Yes <input type="checkbox"/> No			
Depth of survey at MLLW		Discharge occurring at time of survey: <input type="checkbox"/> Yes <input type="checkbox"/> No	
If discharge is occurring, description of size and length of visual plume			

Attachment C- Seafloor Survey Summary Report

<p>Attached summary of findings, such as types and quantities of aquatic life observed adjacent to, on, in, or feeding on the waste; sediment types; and cover observed.</p> <p style="text-align: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p>Total area(s) of coverage:</p>
<p>Findings of change from previous surveys attached.</p> <p style="text-align: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p style="text-align: right;">_____ sq ft.</p> <p>Total area of continuous coverage: _____ sq acres (to tenths of an acre)</p>
<p>Map attached delineating survey area, area(s) of continuous cover, and area(s) of discontinuous cover.</p> <p style="text-align: right;"><input type="checkbox"/> Yes <input type="checkbox"/> No</p>	<p style="text-align: right;">_____ sq ft.</p> <p>Total area of discontinuous coverage: _____ sq acres (to tenths of an acre)</p> <p>Report minimum and maximum observed thickness of each seafood waste pile</p>

Attachment C- Seafloor Survey Summary Report

Seafloor Survey: Transect Data Form					
APDES Permit Number: AKG528 _____					
Name of Permittee:					
Date/Time of Survey:					
Distance along Transect (m)	Transect #1 ST/WD/% Cover	Transect #2 ST/WD/% Cover	Transect #3 ST/WD/% Cover	Transect #4 ST/WD/% Cover	Transect #5 ST/WD/% Cover
Notes: ST - Seafood Waste Pile Thickness WD - Water Depth at Mean Lower Low Water % Cover - Percent of sample plot covered by seafood waste (Reported in 10 % increments, 1-9% = Trace, 10-24% reported as 20%, 25-34% as 30%, 35-44% as 40%, 45-54% as 50%, 55-64 as 60%, 65-74 as 70%, 75-84 as 80%, 85-94 as 90%, and 95-100% as 100%) T - Trace amounts of seafood waste (9% or less cover)					

Attachment D- Annual Report Form

	<p>APDES Authorization Number AKG528 _____</p> <p>ANNUAL REPORT FOR YEAR 20 _____</p>	<p>Submit this form to: Department of Environmental Conservation Division of Water Compliance and Enforcement Program 555 Cordova Street Anchorage, AK 99501 dec-wqreporting@alaska.gov</p>
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The annual report serves to inform DEC of the use and potential degradation of public water resources associated with discharging pollutants under the AKG528000 permit.

SECTION 1 – PERMITTEE INFORMATION

Permittee Company Name:			
Permittee Facility Name:			
Authorized Representative Name or Title:			
Mailing Address:		City/State/Zip:	
Telephone:		Fax:	
Email:			

SECTION 2 - ANNUAL PRODUCTION AND DISCHARGE SUMMARY

Specific to facility activities. Fill out and submit **Attachment D-1**, or facility's own form that provides the same information.

SECTION 3 – NON-COMPLIANCE AND CORRECTIVE ACTION SUMMARY REPORTS

Check Yes / No - If No, state why.

Permittee's Facility Summary Reports:

<input type="checkbox"/> Yes <input type="checkbox"/> No	Summary Report of non-compliance and corrective actions for the facility's Sea Surface and Shoreline Monitoring
<input type="checkbox"/> Yes <input type="checkbox"/> No	Incidents of non-compliance, including those incidents not required to be reported verbally within 24 hours and in writing within five (5) days in accordance with Appendix A, Parts 3.4 and 3.5. Include the reasons for such non-compliance, corrective actions taken, and preventative steps taken.

Attachment D- Annual Report Form

SECTION 4 - REQUIRED SUBMITTALS (ATTACHMENTS) CHECK THE FOLLOWING LIST CAREFULLY - If not attached, your annual report may be found incomplete unless no discharge occurred during the year.	
<input type="checkbox"/>	<ul style="list-style-type: none"> Summary of monthly sea surface and shoreline monitoring photographs, with accompanying log
<input type="checkbox"/>	<ul style="list-style-type: none"> Summary report of injured or dead animals observed
<input type="checkbox"/>	<ul style="list-style-type: none"> Seafloor Survey Monitoring Report, if applicable
<input type="checkbox"/>	<ul style="list-style-type: none"> Summary of leaks or breaks in the refrigeration/freezer systems that led to discharges to receiving waters, and how the incidents were reported
<input type="checkbox"/>	<ul style="list-style-type: none"> A list of chemicals, biocides, disinfectants, cleaners, and food processing additives (salts, acids, bases, enzymes, etc.) that were used and discharged during the annual reporting period. If any substance in the first bullet was not used per the manufacturer's recommended use and application rates, provide the following information: <ul style="list-style-type: none"> Product(s) intended use, Total annual amounts used, Dilution ratio during use.
<input type="checkbox"/>	Other (Please specify)
<input type="checkbox"/>	Other (Please specify)

Attachment D- Annual Report Form

SECTION 5 – CERTIFICATION INFORMATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Organization:							
Name:					Title:		
Phone:		Fax (optional):		Email:			
Mailing Address:		Street (PO Box):					
<input type="checkbox"/> Check if same as Operator Information		City:		State:		Zip:	
Signature		Authority ¹ to Sign				Date	
Notes							
1) An Alaska Pollutant Discharge Elimination System (APDES) permit report must be signed by an individual with the appropriate authority per 18 AAC 83.385. For additional information, please refer to 18 AAC 83.385 at the following link: https://dec.alaska.gov/media/cgbk5a3m/18-aac-83.pdf							
Signing Authority: Please identify your authority to sign APDES permit reports.							

Annual Report Preparer (Complete if Annual Report was prepared by someone other than the certifier.)							
Organization:							
Name:					Title:		
Phone:		Fax (optional):		Email:			
Mailing Address:		Street (PO Box):					
<input type="checkbox"/> Check if same as Operator Information		City:		State:		Zip:	

Attachment D-1

AKG528000 Daily Seafood Production Report

ATTACHMENT E. NOTICE OF TERMINATION



Alaska Pollutant Discharge Elimination System (APDES) Notice of Termination of Wastewater Discharge

Submit this Notice of Termination (NOT) to:

**Alaska Department of Environmental Conservation
Wastewater Discharge Authorization Program
555 Cordova Street
Anchorage, Alaska 99501
or via email: DEC.Water.WQPermit@alaska.gov**

Submission of this document constitutes notice that the party identified in Section 2 intends to discontinue coverage for the permit as indicated in Section 4 of this form. Please provide all information below and attach supplemental information sheets as appropriate.

1. Permit Information

Permit No:

2. Responsible Party Information

(Owner/Operator or Person responsible for overall management of the project, as it appears on the application or Notice of Intent)

Operator Name:		Organization:	Title:
Phone:	Fax (optional):	Email:	
Mailing Address:			
Street (PO Box):			
City:		State:	Zip:

3. Facility or Project/Site Information

(As it appears on the application or Notice of Intent. For mobile operations, submit the final location at which operations have ceased.)

Facility/Project Name:			
Phone:		Fax (optional):	Email:
Location Address:	Street (PO Box):		Borough or similar government subdivision
	City:	State: Alaska	Zip:
Latitude (decimal degree, 5 places)		Longitude (decimal degree, 5 places)	Determined By: <input type="checkbox"/> GPS <input type="checkbox"/> USGS Topo Map <input type="checkbox"/> Internet Map Service

4. Reason for Termination

(Check the appropriate box indicating the reason for terminating coverage.)

<input type="checkbox"/>	Operations have ceased at the facility and there are no longer discharges associated with the conditions of the referenced permit.
<input type="checkbox"/>	Coverage under an individual permit or alternative APDES general permit has been obtained. If checked, please list the permit authorization number used to cover this discharge:
<input type="checkbox"/>	Other (Specify):

5. Permit Reporting Requirements

All reporting requirements as required by the permit have been submitted to DEC.

6. Certification

An Alaska Pollutant Discharge Elimination System (APDES) permit application or report must be signed by an individual with the appropriate authority per 18 AAC 83.385. For additional information, please refer to 18 AAC 83.385 at the following link:
<https://www.akleg.gov/basis/aac.asp#18.83.385>.

Corporate Executive Officer 18 AAC 83.385 (a)(1)(A)	For a corporation, a president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy- or decision-making functions for the corporation.
Corporate Operations Manager 18 AAC 83.385 (a)(1)(B)	For a corporation, the manager of one or more manufacturing, production, or operating facilities, if (i) the manager is authorized to make management decisions that govern the operation of the regulated facility, including having the explicit or implicit duty of making major capital investment recommendations, and initiating and directing other comprehensive measures to assure long term environmental compliance with environmental statutes and regulations; (ii) the manager can ensure that the necessary systems are established or actions taken to gather complete and accurate information for permit application requirements; and (iii) authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
Sole Proprietor or General Partner 18 AAC 83.385 (a)(2)	For a partnership or sole proprietorship, the general partner or the proprietor respectively.
Public Agency, Chief Executive Officer 18 AAC 83.385 (a)(3)(A)	For a municipality, state, or other public agency, the chief executive officer of the agency.
Public Agency, Senior Executive Officer 18 AAC 83.385 (a)(3)(B)	For a municipality, state, or other public agency, a senior executive officer having responsibility for the overall operation of a principal geographic unit or division of the agency.
<p><i>Any report required by an APDES permit, and a submittal with any other information requested by the department, must be signed by a person described in above, or by a duly authorized representative of that person.</i> <i>*For Delegated Authority: the delegation must be made in writing and submitted to the DEC.</i> <i>Your signature will not be approved until DEC receives the written delegation.</i> <i>An Example of written authorization delegating authority can be found on the Division of Water website:</i> https://dec.alaska.gov/media/0c3jkhg/delegation-of-signatory-authority.pdf</p>	
Operations Manager (Delegated Authority)* 18 AAC 83.385 (b)(2)(A)	For a duly authorized representative, an individual or a position having responsibility for the overall operation of the regulated facility or activity, including the position of plant manager, operator of a well or a well field, superintendent or position of equivalent responsibility.
Environmental Manager (Delegated Authority)* 18 AAC 83.385 (b)(2)(B)	For a duly authorized representative, an individual or position having overall responsibility for environmental matters for the company.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. Per [18 AAC 83.130\(k\)](#), I certify there are no current or pending state or federal enforcement actions, including citizen suits brought under state or federal law. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Organization:		Name:		Title:	
<input type="checkbox"/> Check if same as Operator Information in Section 2.	Phone:	Fax (optional):		Email:	
	Street (PO Box):				
	City:		State:		Zip:
_____ Signature/Responsible Official			_____ Date		

7. NOT Preparer (Complete if NOT was prepared by someone other than the certifier.)

Organization:		Name:		Title:	
Phone:		Fax (optional):		Email:	
<input type="checkbox"/> Check if same as Operator Information in Section 2	Street (PO Box):				
	City:		State:		Zip:

ATTACHMENT F. FACILITY SPECIFIC INFORMATION

Authorization Number	Facility Name	Receiving Water	Current Mixing Zone	Required Mixing Zone Application
AKG528234	Kodiak Fishmeal Company	Gibson Cove	Outfall 003A: flow, temperature, ammonia, pH	n/a
AKG528353	Silver Bay Seafoods Kodiak	Saint Paul Harbor	Outfall 001A: flow and ammonia	n/a
AKG528434	Alaska Pacific Seafoods Kodiak	Saint Paul Harbor	None	Outfall 001A: ammonia
AKG528493	Silver Bay Seafoods Kodiak West	Saint Paul Harbor	Outfall 001A: flow and temperature	Outfall 001A: ammonia
AKG528825	Pacific Seafood Kodiak Pillar Mountain	Saint Paul Harbor	None	Outfall 001C: total residual chlorine and ammonia
AKG528836	Pacific Seafood Star of Kodiak	Near Island Channel	None	Outfall 001A and Outfall 001B: temperature, ammonia, and total residual chlorine