



Alaska Department of Environmental Conservation
Division of Water



Module 4B

Grinder & Waste Conveyance Inspections/Sampling



2012 SEAFOOD PROCESSING WASTE PERMITTING & COMPLIANCE WORKSHOP

Anchorage, Alaska • February 28-29, 2012

Module 4B – Grinder & Waste Conveyance: Inspections / Sampling

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Module 4B Objectives

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- To present grinder and waste conveyance APDES permit inspection requirements.
- To discuss the grinder and waste conveyance records and logs required for APDES permit compliance and annual report submittal.

Module 4B – What You Will Learn

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- How to properly inspect and record facility waste conveyance systems.
- How to sample grinder discharge and inspect for compliance under APDES regulations.
- Recording photo documentation of both grinder discharge sampling and inspections.

Waste Conveyance

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Inspection Requirements

- 5.1.8.1 An operator shall conduct a daily visual inspection of the waste conveyance system, including a close observation of the sump or other places of effluent collection for the removal of gloves, earplugs, rubber bands, or other equipment used during the processing of seafood that may inadvertently be entrained in the wastewater. Discharge of such items is prohibited. Logs of daily inspections shall be kept at the facility.
- 5.1.8.3 An operator shall submit a report summarizing the information gathered during the calendar year, including certified copies of the daily logs, to ADEC with the annual report (Part 6.2.2.11.4).

Waste Conveyance Inspections

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Waste Conveyance Inspection Requirements

An operator authorized under the APDES GP is required to conduct daily visual inspections of the waste conveyance system.

Waste Conveyance Inspections

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Waste Conveyance Monitoring Requirements

Inspection must include observation of the sump and other effluent collection areas for the removal of:

- Gloves
- Earplugs
- Rubberbands
- Other equipment used during operation

Waste Conveyance Inspections

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Daily waste conveyance inspections shall be recorded on the *Grinder and Waste Conveyance Inspection Log* form, an example is provided with the APDES as Attachment B.

Grinder System

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Inspection Requirements

- 5.1.9.1 An operator shall conduct a daily inspection of the grinder system during the processing season to confirm that the grinder system is:
 - (1) operating and
 - (2) reducing the size of the seafood residues to 0.5 inch or smaller in any dimension.

Grinder System

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Inspection Requirements

- The inspection shall be performed by taking a representative sample of the ground discharge from a sample port and measuring to ensure the pieces are less than 0.5 inches in any dimension.
- A log of daily grinder samples and inspections shall be kept at the facility.

Grinder System Sampling

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An operator authorized under the APDES GP is required to conduct a daily grinder discharge sample to ensure any solids are less than 0.5 inch in any dimension.

Grinder System Inspection - Photographs

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In addition to the *Grinder System Inspection Log* , a permittee is required to take digital photographs of the sample port during sampling.

Grinder System Inspection - Photographs

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Minimum Photo Requirements:

- Photos must be taken at least once per month while processing is occurring.
- Photos must include the sample port while daily sampling occurs and a representative grinder discharge amount showing grind size.
- A measuring device (ruler) must be included for scaling purposes.
- Photos must include a digital date and time stamp.

Grinder System Inspection - Photographs

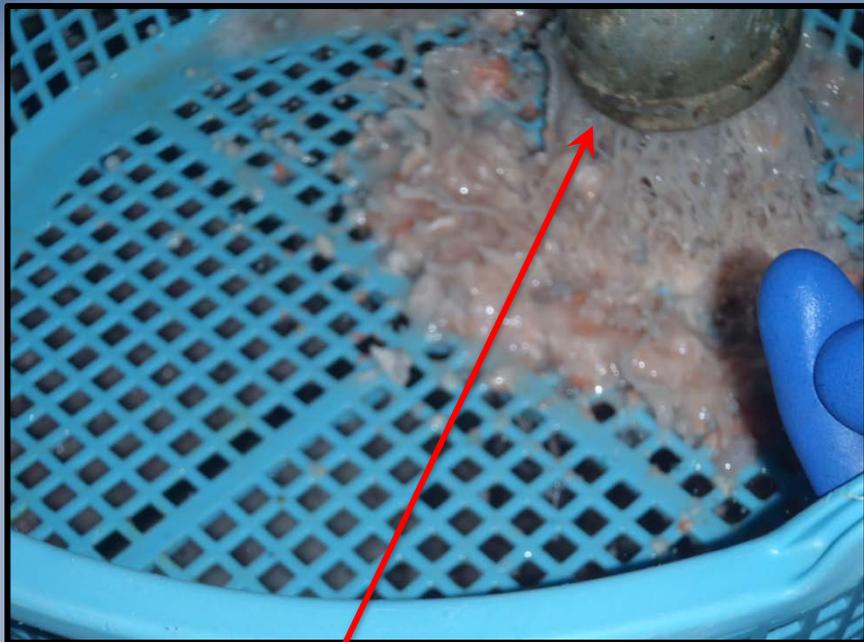
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- Photos must provide sufficient clarity and detail to support the observations on the daily log form, and must represent what was observed.
- A written photograph log with the name of the photographer and photo description shall be included in written photo log.
- Pictures and the written log shall be submitted on a CD or DVD as required with the APDES annual report.

Grinder System Inspection Example Photographs

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Discharge Port

Example photos documenting grinder discharge from facility port during processing.



Grinder System Inspection Example Photographs

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Example photos documenting grinder discharge.



Grinder System Inspection – Photographs Noncompliance

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1. Permit Treatment Limit is Exceeded. Waste must be ground to 0.5 inches in all dimensions

Grinder System Inspection - Photographs

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Grinder & Waste Conveyance Inspection Log

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- 5.1.9.3 An example *Grinder and Waste Conveyance Inspection Log* is provided as *Attachment B* to the permit.
- 5.1.9.4 An operator shall submit a report summarizing the information gathered during the calendar year, including certified copies of the daily logs, to ADEC with the annual report (Part 6.2.2.11.4).

Grinder & Waste Conveyance Inspection Log – Example

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Inspection		Waste Conveyance		Sea Surface & Shoreline		Inspector	
Date	Time	Particle Size	Foreign Objects	Animals	Surface Debris	Comments	Initials
7/25/09	6:00 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
7/26/09	6:00 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
7/27/09	6:00 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
7/28/09	6:00 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
7/29/09	6:10 am	2-1/4"	Y or <input checked="" type="radio"/> N	152 ϕ E	Y or <input checked="" type="radio"/> N		NB
7/30/09	5:45 am	2-1/4"	Y or <input checked="" type="radio"/> N	352 ϕ E	Y or <input checked="" type="radio"/> N	cleaning at the time of inspection	NB
7/31/09	5:50 am	2-1/4"	Y or <input checked="" type="radio"/> N	82 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/1/09	6:00 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/2/09	6:15 am	2-1/4"	Y or <input checked="" type="radio"/> N	152 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/3/09	5:45 am	2-1/4"	Y or <input checked="" type="radio"/> N	852 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/4/09	5:50 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/5/09	5:45 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
8/6/09	5:35 am	2-1/4"	Y or <input checked="" type="radio"/> N	952 ϕ E	Y or <input checked="" type="radio"/> N		NB
			Y or N		Y or N		
			Y or N		Y or N		
			Y or N		Y or N		
			Y or N		Y or N		
			Y or N		Y or N		

Grinder & Waste Conveyance

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Noncompliance

- 5.1.9.5 An operator shall report any noncompliance to ADEC in accordance with Appendix A, Part 3.5, (Other Noncompliance Reporting) and a written summary submitted with the annual report (Part 6.2.2.7). The written summary shall include the events of how the failure to meet the 0.5 inch grind size was discovered, the duration of the noncompliance, and how the noncompliance was resolved.
- 5.1.9.6 Signatory requirements. The report shall be signed by a principal officer or a duly appointed representative of the operator (Appendix A, Part 1.12, Signature Requirement and Penalties).

End of Module 4B

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