



Alaska Department of Environmental Conservation
Division of Water



Module 6B

Offsite Laboratory Analysis

2012 SEAFOOD PROCESSING WASTE PERMITTING & COMPLIANCE WORKSHOP

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Module 6B – Offsite Laboratory Analysis

MODULE 6B



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Module 6B – Module Objectives

MODULE 6B



The logo for SGS, consisting of the letters "SGS" in a bold, black, sans-serif font. A vertical line is positioned to the right of the "S", and a horizontal line is positioned below the "S".

1. Requirements for proper sample collection
2. Required sample volumes and preservation
3. Sample transfer documentation requirements for shipment to the laboratory
4. Shipping issues and time constraints

Module 6B – What You Will Learn

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Selecting the proper containers for specific samples.

Learn how to properly handle and clean containers.

Apply the specific information to sample bottles and record sample documentation.

Review sample shipping specifics and procedures.

Module 6B – General Review

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The logo for SGS, consisting of the letters "SGS" in a bold, black, sans-serif font. A thin red vertical line is positioned to the right of the "S", and a thin red horizontal line is positioned below the "S".

Sample collection, documentation, and shipping

- BOD
- TSS
- Oil and Grease
- Fecal Coliform
- Enterococci

Module 6B – Sample Containers

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Select the Correct Container

Water

- BOD: 950mL HDPE unpreserved
- TSS: 950mL HDPE unpreserved
- O&G: 2 x 950mL amber glass w/ HCl
- Coliform: 125mL sterile plastic
- Enterococci: 125mL sterile plastic

Stickwater

- BOD: 60mL HDPE unpreserved
- TSS: 60mL HDPE unpreserved
- O&G: 60mL HDPE unpreserved

Collection Procedures

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Module 6B – Collection Procedures

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Keep all containers clean and dry

1. Carefully open container
 - Do not spill or rinse out preservative
2. Grab Sample
 - Carefully fill container and tighten cap
3. Composite Sample
 - Automated collection device
 - Manual collection
 - Partially fill container based on composite periods, for example:
 - A. One fourth after each 6 hour period
 - B. One sixth after each 4 hour periods

Module 6B – Collection Procedures

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4. Label Container

- Use label provided or write on container
- Use permanent marker (e.g., Sharpie).
- No ball point pens, please.
- Indicate sample ID and analyses requested

Module 6B – Documentation Procedures

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Fill out Chain of Custody (COC)

Key Elements:

- Company
- Point of Contact information (name, phone, email)
- Sample IDs
- Date and time of collection
- Specify and mark analyses requested
- Request appropriate report package
- Release signature and date/time of release

Module 6B – Shipping Procedures

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Pack Samples for Shipment

- Line bottom of cooler with cushioning material
- Carefully place containers in the cooler
- Line sides of cooler with frozen gel ice packs and place temperature blank in cooler
- Place cushioning material between and on top of bottles to prevent breakage and shifting
- Include COC in Ziploc bag
- Complete and place custody seals on cooler (one each on front and back of each cooler)

Module 6B – Shipping Procedures

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Ship Cooler to Lab

Use a shipping method that will get the samples to the lab overnight, if possible, as some of the analyses have a very short hold time.

- Contact lab
- Flight number
- Estimated arrival time
- Air waybill number
- Number of coolers

End of Module 6B

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