



# ANALYTICAL REPORT

**Alaska State Environmental Health Laboratory**  
5251 Dr. Martin Luther King Jr. Avenue  
Anchorage, AK 99507  
[www.dec.alaska.gov/eh/lab](http://www.dec.alaska.gov/eh/lab)

**Work Order Number: 1902026**  
**Project Name: Fish Monitoring Program**

**For:**

**AKDEC Office of the State Veterinarian**  
5251 Dr. Martin Luther King, Jr. Avenue  
Anchorage, AK 99507

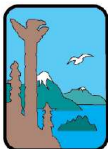
**Attn: Dr. Robert Gerlach**

A handwritten signature in blue ink that reads "Steve R. Crupi".

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**Steve R Crupi**  
**Quality Assurance Manager**  
[steve.crupi@alaska.gov](mailto:steve.crupi@alaska.gov)

**Report Date: 02/15/2019**



**ALASKA**  
Department of  
Environmental  
Conservation

*The results in this report apply to the samples analyzed in accordance with the sample submission form. This analytical report must be reproduced in its entirety. This report has been electronically signed and authorized by the signatory.*

# Sample Summary

Client: AKDEC Office of the State Veterinarian  
Project: Fish Monitoring Program

Work Order: 1902026  
Report Date: 02/15/2019 10:03

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Lab Sample ID	Client Sample ID	Matrix	Collected	Received
1902026-01	Smelt (14 fish)	Biota	01/18/2019	02/12/2019

## Methods

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All samples were analyzed and conform with the following methods unless otherwise specified in the Case Narrative:

Organoleptic

## Case Narrative

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14 smelt were received for this sample. After testing, the entire sample was delivered to the AK Public Health Lab for additional testing.

The "PASS" result indicates no unusual odors or appearances were discovered, no visual evidence of decomposition or external anomalies.

## Notes and Definitions

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HT-REC The sample exceeded Hold Time limit upon arrival.

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Alaska State Environmental Health Laboratory



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Steve R Crupi, Quality Assurance Manager

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# Analytical Data

Client: AKDEC Office of the State Veterinarian  
Project: Fish Monitoring Program

Work Order: 1902026  
Report Date: 02/15/19 10:03

Client Sample ID: Smelt (14 fish)

SPECIES: FISH

Lab Sample ID: 1902026-01

Date Collected: 01/18/19 9:55

Date Received: 02/12/19 09:55

Sampled By: Joan Hjalseth

Temperature at Receipt: -0.7 degrees C


SEX: U

AGE: U

TISSUE TYPE: WHOLE

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Organoleptic Evaluation	PASS	51.0		1	B19B047	13-Feb-19	13-Feb-19	Organoleptic	HT-RE C

Alaska State Environmental Health Laboratory



Steve R Crupi, Quality Assurance Manager

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**Work Order:**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Alaska State Environmental Health Laboratory



Steve R Crupi, Quality Assurance Manager

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# ADFG FISH PATHOLOGY LABS SAMPLE SUBMISSION FORM CASE DATA SHEET

Accession # (to be assigned by Fish Pathology Staff) 19-0034

DATE RECEIVED AT LABORATORY: 2/8/19 DATE COLLECTED: ~ Oct 31st 190

FACILITY/CONTACT PERSON & ADDRESS: Joan Hjalseth 907 3429693  
j.hjalseth@yahoo.com

BROODYEAR/STOCK/SPECIES (LOT #): \_\_\_\_\_

LOCATION (Hatchery, water source) WHERE COLLECTED: Sisimwaft - Chucki sea

NUMBER OF SAMPLES: 15 gills SAMPLE TYPE: whole fish

LIFE STAGE: Adult SEX (if applicable): \_\_\_\_\_ WILD: X

REASON FOR SUBMISSION: (Circle One)

- a) Diagnostic
- b) Update disease history
- c) Establish new disease history
- d) Family Track for BKD - Date when results needed \_\_\_\_\_
- e) Other (Explain) \_\_\_\_\_

IF DISEASE OUTBREAK - DATE FIRST NOTICED: \_\_\_\_\_

PROBLEM HISTORY: smell like exhaust; smoky exhaust taste  
grandma got sick. Ddatcha; hospital for 5 days

me checked / Petreolium or oil smell  
gaw all shewn on Lagoon soil

RECENT MEDICATIONS: \_\_\_\_\_

Are these samples an FTP requirement?  YES  NO

If yes, what is the FTP number? \_\_\_\_\_

Alaska Dept. of Fish & Game, CFD - Fish Pathology Labs, Anchorage (907) 267-2392, Juneau (907) 465-3577

Relinquished by: Bruce Ockerman 12 Feb 2019 : 0955  
Received by: Kelly Tibodeau 2/12/19 @ 9:55



# ADEC EHL Sample Receipt Checklist

(form SC-11, rev 11/2018)

Environmental Health Laboratory  
5251 Dr. MLK Jr. Ave., Anchorage, AK 99507  
(907) 375-8200



WO #: 1902026

# of Samples: 1

Client: OSV

Sample Matrix: Fish

### COC Seals:

- On Shipping Container Intact? Y/N
- On Sample Packaging Intact? Y/N
- None

### Received via:

- USPS
- UPS
- FedEx

- Delivered by Client/Client Courier
- Courier Shipper: \_\_\_\_\_
- Other \_\_\_\_\_

Shipment Tracking # \_\_\_\_\_

Sample Temperature @ Receipt: -0.7 °C

Thermometer ID (circle one): A15D076, calibration due 5/22/2019

A15D172, calibration due 4/27/2019

Other: \_\_\_\_\_

### Shipping Container Type:

- Box
- Cooler
- Envelope
- Hand Carry
- Styro-Box
- Other \_\_\_\_\_

### Sample Packaging Type:

- Plastic/Ziploc Bag
- Plastic/Glass Vial/Jar
- Whirl Pak Bag
- Vacuum Packaging
- Commercial Packaging
- Blood Tubes
- Other \_\_\_\_\_

### Refrigerant:

- Dry Ice
- Gel/Ice Pack
- Water Ice
- Other \_\_\_\_\_
- None
- Notes: \_\_\_\_\_

### Sample(s) and Sample Containers:

- |                             |   |                                     |   |                                       |                            |   |                                     |   |                          |
|-----------------------------|---|-------------------------------------|---|---------------------------------------|----------------------------|---|-------------------------------------|---|--------------------------|
| Intact?                     | Y | <input checked="" type="checkbox"/> | N | <input type="checkbox"/>              | Properly Preserved?        | Y | <input checked="" type="checkbox"/> | N | <input type="checkbox"/> |
| Correct Type?               | Y | <input checked="" type="checkbox"/> | N | <input type="checkbox"/>              | Meets Temp Requirements?   | Y | <input checked="" type="checkbox"/> | N | <input type="checkbox"/> |
| IDs/Times/Dates Match Form? | Y | <input type="checkbox"/>            | N | <input checked="" type="checkbox"/> ① | Adequate Amount for Tests? | Y | <input checked="" type="checkbox"/> | N | <input type="checkbox"/> |

### Sample Submission Form:

- Sample Submission Form Complete? Y  N
- Client Contacted Regarding Incomplete Data? N  Y  Provide details below in "Comments" section.

Comments: Only ADFG COC received with samples. ① Also ADFG COC states 15 samples present, when counted only 14 fish sent. KCT 2/12/19



**From:** [Gerlach, Robert F \(DEC\)](#)  
**To:** [Crupi, Steve R \(DEC\)](#); [McKinney, Patryce D \(DEC\)](#)  
**Cc:** [Gerlach, Robert F \(DEC\)](#); [DEC FH - Lab - Shipping Receiving](#)  
**Subject:** FW: Samples Received WO#:1902026  
**Date:** Thursday, February 14, 2019 2:05:15 PM

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The smelt that will be submitted by ADFG should be logged in under Fish Monitoring. After the organoleptic evaluation the sample will be sent to the Public Health lab for evaluation.  
Bob

Robert F Gerlach, VMD  
*Office of the State Veterinarian*  
5251 Dr. MLK Jr. Ave.  
Anchorage, AK 99507  
phone: 907-375-8214  
fax: 907-929-7335

*Whenever a theory appears to you as the only possible one, take this as a sign that you have neither understood the theory nor the problem which it was intended to solve.*  
*Karl Popper*

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**From:** Gerlach, Robert F (DEC)  
**Sent:** Tuesday, February 12, 2019 12:55 PM  
**To:** McKinney, Patryce D (DEC) <patryce.mckinney@alaska.gov>; Forester, Matthew C (DEC) <matthew.forester@alaska.gov>  
**Cc:** Carpenter, Christina E (DEC) <christina.carpenter@alaska.gov>; Furin, Christoff G (DEC) <christoff.furin@alaska.gov>; Gerlach, Robert F (DEC) <bob.gerlach@alaska.gov>; Stryker, Kimberly S (DEC) <kimberly.stryker@alaska.gov>; Verbrugge, David A (HSS) <david.verbrugge@alaska.gov>; Castrodale, Louisa J (HSS) <louisa.castrodale@alaska.gov>  
**Subject:** FW: Samples Received WO#:1902026

Update on an incident involving smelt caught in Shishmaref about 3 weeks ago and they had an abnormal odor described as exhaust-like smell. It was also stated that they saw an oil sheen on the lagoon side of the fishing spot.

The fish were consumed by several individuals and a grandmother got very sick with diarrhea and was hospitalized for 5 days.

A woman named Joan Hjalseth submitted a bag smelts that are frozen to ADF&G. Jayde Ferguson, the fish pathologist at the lab, smelled them and noted that they do have an unnatural smell to them, almost oily or chemical in nature. ADF&G will perform a necropsy looking for signs of a fish disease and has sent over the remaining smelt to the EHL and they are now logged in as samples to the Fish Monitoring Program.

I would like to request to have EHL staff who have been trained to perform organoleptic evaluations examine the fish.

Then the sample can be sent over to the Public Health Lab where Dave Verbrugge has agreed to run

a headspace volatiles on a sample of the fish.

After these evaluations it can be decided if additional testing may be recommended.

Kim or Louisa, I was not sure if you wanted to have any staff examine these fish or have any other recommendations for evaluating this sample of smelt.

Thanks, Bob

Robert F Gerlach, VMD  
Office of the State Veterinarian  
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phone: 907-375-8214  
fax: 907-929-7335

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*Karl Popper*

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**From:** Thibodeau, Kelly C (DEC)  
**Sent:** Tuesday, February 12, 2019 12:23 PM  
**To:** DEC EH - Lab - Shipping Receiving <DEC.EH-Lab-ShippingReceiving@alaska.gov>  
**Cc:** Furin, Christoff G (DEC) <christoff.furin@alaska.gov>; Coburn, Sarah Margaret (DEC) <sarah.coburn@alaska.gov>; Gerlach, Robert F (DEC) <bob.gerlach@alaska.gov>  
**Subject:** Samples Received WO#:1902026

SAMPLE TYPE	Fish-Smelt
NUMBER of SAMPLES	1 sample (14 fish)
REQUIRED TEST	Organoleptic evaluation
CLIENT	OSV
WHEN COLLECTED	1/18/19
TEMPERATURE UPON RECEIPT ( degrees C)	-0.7
CURRENT LOCATION	Walk-In Freezer

Kelly Thibodeau  
Laboratory Technician  
State of Alaska  
Department of Environmental Conservation  
Environmental Health Lab