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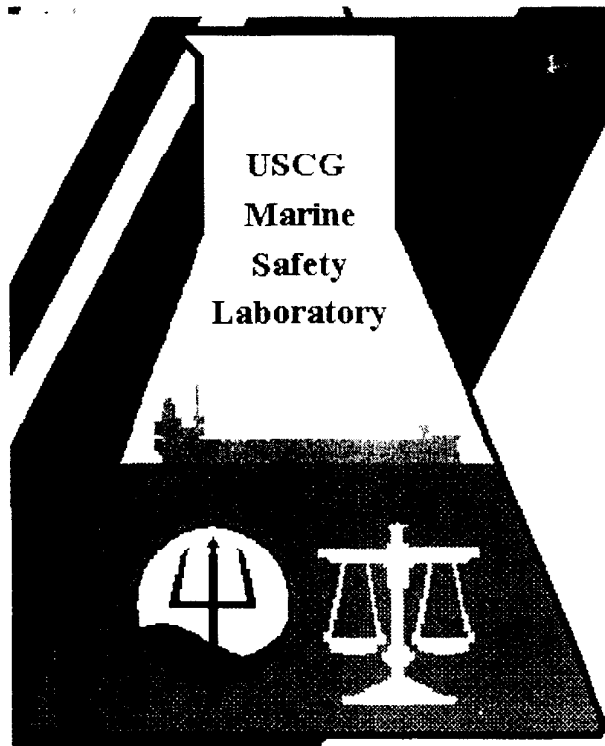
Oil Sample Analysis Report

MSO Honolulu

Case Number MC98011773

Marine Safety Laboratory

Case Number 99-015



**United States
Coast Guard**
U.S. Department
of Transportation



Manager
U.S. Coast Guard
Marine Safety Laboratory

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16400
22-Oct-98

From: Manager, Marine Safety Laboratory
To: Commanding Officer, MSO Honolulu
Subj: Oil Sample Analysis Report, MSO Honolulu
Case # MC98011773, MSL Case # 99-015

1. The laboratory analysis of this case has been completed and our report is forwarded. The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request. We will maintain the oil samples in refrigerated storage pending final case disposition.
2. Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis, G. E. Moffett.


G. E. MOFFETT
By Direction

Encl: (1) MSL Report 99-015

UNITED STATES COAST GUARD MARINE SAFETY LABORATORY
OIL IDENTIFICATION LABORATORY

OIL SPILL IDENTIFICATION REPORT

LABORATORY CASE NUMBER: 99-015

REQUESTOR: MARINE SAFETY OFFICE HONOLULU

UNIT CASE NUMBER: MC98011773

RECEIVED: 13OCT98 VIA: FEDERAL EXPRESS (# 4416906141)

NUMBER OF SAMPLES: ONE (01)

LAB NO. OF SPILL: 99-015-1

ANALYSIS METHODS:

GAS CHROMATOGRAPHY (GC)

SPECIAL INSTRUCTIONS:

1. Compare the spilled oil sample recently sent to MSL on 13OCT98 with previously analyzed samples from MSL case 98-281. Samples 98-081-1 (spill) and 98-281-6 (source) were selected for comparison purposes.

RESULTS: (NON MATCH)

1. Sample 99-015-1 was specified to be representative of spilled oil. Analysis indicates that sample 99-015-1 contains a slightly evaporatively weathered heavy fuel oil product or a crude oil.

2. Sample 99-281-1, as previously reported in MSL case 98-281, contains an evaporatively weathered intermediate fuel oil with characteristics different from those observed in spilled oil sample 99-015-1. Differences noted are not consistent with weathering of spilled oil.

3. Sample 99-281-6, as previously reported in MSL case 98-281, contains an evaporatively weathered intermediate fuel oil with characteristics similar to those observed in spilled oil sample 98-281-1, but different from those observed in spilled oil sample 99-015-1. Differences noted between sample 99-281-6 and spilled oil sample 99-015-1 are not consistent with weathering of spilled oil.

CONCLUSIONS:

1. Spilled oil sample 99-015-1 and spilled oil sample 98-281-1 are not derived from a common source of spilled oil. Differences noted are not attributable to weathering of spilled oil.

2. Spilled oil sample 99-015-1 and suspected source sample 98-281-6 are not derived from a common source of spilled oil. Differences noted are not attributable to weathering of spilled oil.

SUPERVISOR OF ANALYSIS


GARY MOFFETT
Chemist

DATE: 21OCT98

**United States Coast Guard
Marine Safety Laboratory**

Sample Check-in Log, MSL Case Number: 99-015

Requestor: MSO Honolulu

Unit Case Number: MC98011773

Federal Project Number

Delivery Method: FEDERAL EXPRESS

Received Date: 13-Oct-98

Delivery Number: 4416906141

Priority: No Rush: No Comparison: Yes

Lab Number	Sample Descriptions from Sample Jars	Spill	Source
99-015			
1	1 SAMPLE OF 5LBS TAR BALL ON KAILUA BEACH NOTE: MUSSELS SIZE 29 SEP 98 11:40	XX	
2			
3			
4			
5			
6			
7			
8			
9			
10			

Remarks: COMPARE WITH MSL CASE 98-281

Samples checked in by: _____

Date: 13 OCT 98

Sample Custodian: _____

Date: 13 OCT 98

Supervisor of Analysis: _____

Date: 21 OCT 98

U.S. Department
of Transportation

United States
Coast Guard



Commanding Officer
Marine Safety Office

433 Ala Moana Blvd.
Honolulu, HI 96813-4909
Staff Symbol: Port Ops
Phone: (808) 522-8260

16460
30 SEP 98

From: Commanding Officer, Marine Safety Office Honolulu, HI
To: Commanding Officer, USCG Marine Safety Laboratories

Subj: REQUEST FOR OIL SAMPLE ANALYSIS

1. Request analysis of the 1 sample listed on attached Chain of Custody Record to assist in our investigation of spill case MC98011773.
2. This is a request for a normal analysis.
3. Questions concerning this case should be directed to FNMK Kilgore at (808)522-8260.
4. The spill sample was collected from Kailua beach on the island of Oahu.
5. The McGill sheen sampling net was not used.
6. Estimate 117 barrels spilled, clean-up conducted.
7. Weather Conditions at time of Sampling: bright sun, 80 degrees, light and variable winds.
8. Spill did not involve seepage of oil through the soil.
9. There is sand mixed with sample.
10. All samples involved in this case are being sent to the laboratory.
11. Identification of pollution type and check to MC98011128.

A handwritten signature in cursive script, appearing to read "R. Spalding".

R. SPALDING
By direction

UNITED STATES COAST GUARD
CHAIN OF CUSTODY RECORDS

SUPERVISOR MARINE SAFETY OFFICE 433 ALA MOANA BLVD. PIER 4 HONOLULU HAWAII 96813					
SPILL	SOURCE	SAMPLE NO.	DESCRIPTION OF SAMPLES FOR CASE# M096 011077		
X		1	SAMPLE OF 5165 TANK BURN ON KAILUA BEACH		
PERSON ASSUMING RESPONSIBILITY FOR SAMPLES					TIME/DATE
ANNEX K 26216 USCG					30 MAY 78 11:52
SAMPLE NUMBER	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	REASON FOR CHANGE OF CUSTODY
1-1	ANNEX K 26216 USCG	05/20/78 1500	ANNEX K 26216 REV. ENGINEER MATZ ATMAK	1230 190275	LAB. ANALYSIS
SAMPLE NUMBER	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	REASON FOR CHANGE OF CUSTODY
SAMPLE NUMBER	RELINQUISHED BY:	DATE/TIME	RECEIVED BY:	DATE/TIME	REASON FOR CHANGE OF CUSTODY

**UNITED STATES COAST GUARD
MARINE SAFETY LABORATORIES
OIL IDENTIFICATION LABORATORY**

QUALITY CONTROL SHEET

MSL CASE NUMBER: 99-015 DATE PREPARED: 14 OCT 98

A Quality Control (QC) sample was analyzed along with the samples of the case.

- The Quality Control (QC) sample is a duplicate of sample _____.
- Due to limited sample quantity in all samples of the case, reference oil T-005-100 from the MSL oil library was used for the Quality Control (QC) and Quality Control Match (QCM) samples.
- Infrared Spectroscopy was used as a screening method before final sample preparation. No QC sample was available during IR screening.

ANALYTICAL METHODS

	SAT	N/A
INFRARED SPECTROSCOPY (IR)		X
GAS CHROMATOGRAPHY (GC)	X	
FLUORESCENCE SPECTROSCOPY (FL)		X
GAS CHROMATOGRAPHY/MASS SPECTROMETRY (GC-MS)		X

The data and conclusions for the QC and QCM samples were identical: YES X NO _____

Comments: QC-SAT

SUPERVISOR OF ANALYSIS: [Signature]
Revised 2/96

DATE: 21 OCT 98

**United States Coast Guard
Marine Safety Laboratory**

**Oil Spill Identification Analyses
Cost Recovery Documentation**

Laboratory Case Number: 99-015
Requestor: MSO Honolulu
Unit Case Number: MC98011773
Number of Samples: 1
Cost Per Sample Prepared: \$20.00
Total Costs of Sample Preparation: \$20.00
Number of Analyses: 4
Cost Per Sample Prepared: \$86.00
Total Costs for Analyses: \$344.00
TOTAL COSTS: \$364.00

This documentation is provided for purposes of Phase IV - Documentation and
Cost Recovery under the National Oil and Hazardous Substances Pollution
Contingency Plan (40 CFR Part 300)

Signature:



Date: 22-Oct-98