# Oil Sample Analysis Report

## NOAA Marine Fisheries Service Case Number LA454

Marine Safety Laboratory Case Number 11-138





Manager U.S. Coast Guard Marine Safety Laboratory

1 Chelsea Street New London, CT 06320 Phone: (860) 271-2704 Fax: (860) 271-2641

16450 01 Mar 2011

NOAA Marine Fisheries Service Attn: Elizabeth Tuohy-Sheen 75 Virginia Beach Dr. Miami, FL 33149

Dear Elizabeth Tuohy-Sheen:

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 The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request.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.

Questions concerning this report or the analytical methods used should be directed to the Supervisor of Analysis, Kristy Juaire.

By direction

Encl: (1) MSL Report 11-138

### United States Coast Guard Marine Safety Laboratory Oil Spill Identification Report 11-138

Requestor: NOAA Marine Fisheries Service

Unit Case/Activity Number: LA454

Received:

24-Feb-11

Via: Federal Express

8604 4352 2076

Number Of Samples: 5

**Lab NO. of Spills:** 1, 2, 3, 4 and 5

Lab NO. of Suspects: n/a

Lab NO. of Background: n/a

Analysis Methods:

GAS CHROMATOGRAPHY (GC)

GAS CHROMATOGRAPHY-MASS SPECTROMETRY (GC-MS)

☐ INFRARED SPECTROSCOPY (IR)

### Laboratory's Conclusion (as explained below): MATCH

SPECIAL INSTRUCTIONS: Compare all samples to the Deepwater Horizon oil spill. Samples 10-095-1 and 10-220-8 were analyzed as representative Deepwater Horizon samples.

#### RESULTS:

- 1. Samples 11-138-1, 2, 3, 4 and 5 were specified to be representative of various samples collected as part of NOAA Case LA454. All samples were wrapped in aluminum foil. Analysis indicates:
- A. Samples 11-138-1, 2 and 4 contain moderately degraded crude oil. Non-petroleum contamination is present in each sample.
- B. Sample 11-138-3 contains traces of hydrocarbons. The quantity is not sufficient to conclusively attribute these hydrocarbons to the presence of petroleum oil based on the analysis conducted.
  - C. Sample 11-138-5 does not contain a quantity of petroleum oil detectable by the analysis conducted.
- 2. Samples 10-095-1 and 10-220-8 contain crude oil with characteristics similar to those of samples 11-138-1, 2 and 4. Differences are attributable to weathering and non-petroleum contamination.

### CONCLUSIONS:

- 1. Samples 11-138-1, 2 and 4 are derived from the Deepwater Horizon oil spill.
- 2. Samples 11-138-3 and 5 do not contain a quantity of petroleum oil sufficient for comparison or identification purposes based on the analysis conducted.

SUPERVISOR OF ANALYSIS K. JUAIRE DATE 01-Mar-11
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# **United States Coast Guard Marine Safety Laboratory**

### Oil Spill Identification Analysis Cost Recovery Documentation

Laboratory Case Number: 11-138

Requestor: NOAA Marine Fisheries Service

Unit Case Number: LA454

Number of Samples: 7

Cost Per Sample Prepared: \$20.00

**Total Costs of Sample Preparation:** \$140.00

Number of Analysis: 18

Cost Per Sample Prepared: \$86.00

Total Costs for Analysis: \$1,548.00

**TOTAL COSTS:** \$1,688.00

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: Anista kiouzo Date

**Date:** 01 Mar 2011

### United States Coast Guard Marine Safety Laboratory Sample Check-In Log

MSL Case/Activity Number: 11-138

Requestor: NOAA Marine Fisheries Service	Unit Case Number LA454
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Federal Project Number: Delivery Method: Federal Express

Received Date: 24 Feb 11 Delivery Number: 8604 4352 2076

Prior	ity:	Yes	Rush:	No	Comparison	Yes	
Lab Number 11-138		Sample Descriptions from Sample Jars					Source
1	1A	5 GAUZE S LA001) [DC	WABS WRAPPED IN FO DRSAL]	IL IN A ZIPLO	C BAG (SDD-20110219- 2-19-11 1211	<b>~</b>	
2	1B	5 GAUZE S LA001) [VE	WABS WRAPPED IN FO ENTRAL]	IL IN A ZIPLO	C BAG (SDD-20110219- 2-19-11 1211	<b>v</b>	
3	۱۸	5 TONGUE 20110219-L	DEPRESSORS WRAPPE A001)	D IN FOIL, IN /	A ZIPLOC BAG (SDD- 2-19-11 1211	<b>~</b>	
4 .	IB	5 TONGUE 20110219-L	DEPRESSORS WRAPPE A001)	D IN FOIL IN A	A ZIPLOC BAG (SDD- 2-19-11   1211	<b>~</b>	
5	I		SWAB WRAPPED IN FOII Y SDD-20110219-LA001 [			<b>~</b>	
6							
7							
8							
9							
10							
					the exception of square brack d as "spill" for comparison p		
Samples ch	ecked	i <b>n by:</b> MST3 i	MIKE RUSHANE		Date:	24 Feb	11

Sample Custodian:

Supervisor of Analysis:

Date: 28611

Date: \_ OIMOTIL\_

## United States Coast Guard Marine Safety Laboratory Sample Check-In Log

## MSL Case/Activity Number: 10-095

Requestor: Marine Safety Unit Morgan City  Federal Project Number: N10036		Unit Case Number 3721503						
		36	Delivery Method: Federal Express					
Received Date: 14 May 10			<b>Delivery Number:</b> 8697 9761 8027 / 8049					
Priority: Yes Rush:			No	Comparison	No	No		
Lab Number 10-095	Sai	mple Descriptions	from Samp	le Jars	Spill	Source		
1	DTS-6 5,000 FT VESS	EL: SKANDI - NEPTU	INE 65% OIL I	CMS,ADM 5-5-10 1813		<b>V</b>		
2 .	DTS-6 VESSEL: SKAN	NDI NEPTUNE < 1% (	DIL BOTTOM			•		
3								
4								
5								
6								
7 .				·				
8								
9	·							
10	on the state of th		Sandahadah, Pabbahadahadahada Privini Vis. 2014. 1914. 1914. 1914.					
Remarks: ID	ONLY.				V			
Samples checked in by: MSTI ALICIA TODMAN Que Date:		l4 May	14 May 10					
Sample Custodian: MST2 JOHN AGAPITO		hlyt	Date:	5/21/10				
Supervisor o	f Analysis: K. JUAIR	Fisty from	<u>.</u>	Date:	- <del>10-</del> C	ו חטע ונ		
		Page 1	of 1					

### **United States Coast Guard** Marine Safety Laboratory Sample Check-In Log

MSL Case/Activity Number: 10-220

<b>Requestor:</b> Sector	Mobile
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Unit Case Number 3789039

Federal Project Number:

Delivery Method: Federal Express

Received Date:

09 Jul 10

**Delivery Number:** 8726 4052 5936/5925

Priorit	y: No	Rush:	No	Comp	arison	Yes	
Lab Number 10-220	Sample Descriptions from Sample Jars				Spill	Source	
1	PCI PASS CHRISTIAN BEACH MISS TAR BALL 7JULY10 1016					V	
2	PC2 PASS CHRISTIAN BEACH MISS. TAR BALL 7JULY10 1020					V	
3	LBI LONG BE	ACH MISS TAR BALLS		7JULY10		V	
4	LB2 LONG BE	ACH MISS TAR BALLS		7JULY10		V	
5	3789039-0	GS1-SMW FIRST TAR PA	ATTY TAKEN FF			·	
6	3789039-0	3S2-SMW SECOND TAR	PATTY TAKEN	FROM GULF SE	,	V	
		M1-SMW FIRST TAR PA	ATTY TAKEN FI		GAN, AL.	V-	
8	3789039-1	FM2-SMW SECOND TAF	R PATTY TAKE		ORGAN, AL.	~	
9	3789039-1	DII-SMW FIRST TAR PA	TTY TAKEN FR		SLAND, AL.	~	
10	3789039-I AL.	DI2-SMW SECOND TAR	PATTY TAKEN		N ISLAND,	V	
Remarks: Con	npare to Deepwater I	łorizon.					
Samples chec	ked in by: MST3	ZACHARY COTE	Barbury (	a. Cote	Date:	09 Jul	10
Sample C	Custodian: MST	2 JOHN AGAPITO	Al Can	<u>/</u>	Date:	زترا	UL10
Supervisor of	Analysis: K. JU	AIRE Y VISTE JELO	rere		Date:	14 Ju	110

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