

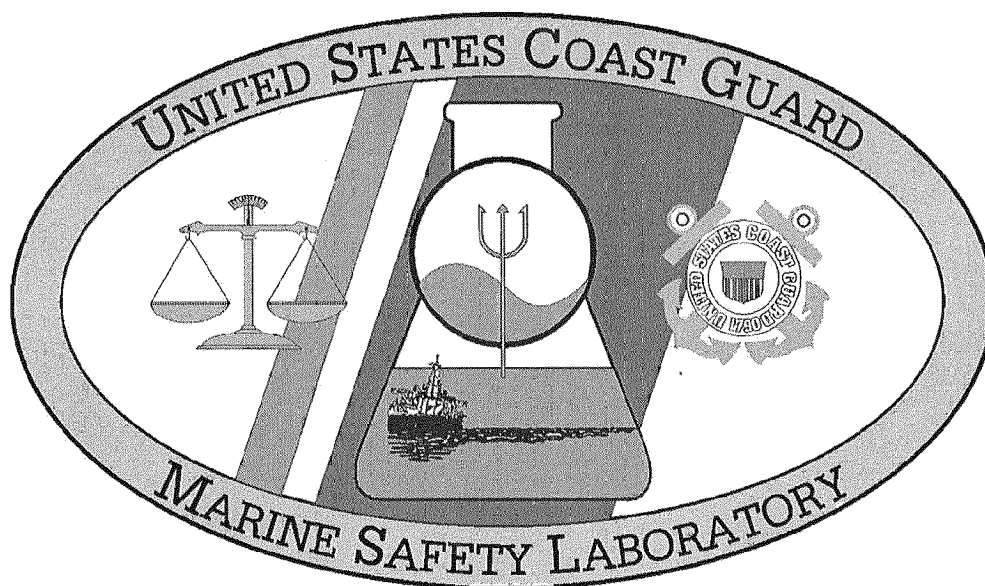
**Oil Sample Analysis Report**

**NOAA Marine Fisheries Service**

**Case Number LA455**

**Marine Safety Laboratory**

**Case Number 11-144**



U.S. Department of  
Homeland Security

**United States  
Coast Guard**



Manager  
U.S. Coast Guard  
Marine Safety Laboratory

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


16450  
03 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 The technical data supporting the report (spectrograms and chromatograms) have been archived at our facility and are available upon request.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 Juare.

  
K. JUARE  
By direction

Encl: (1) MSL Report 11-144

**United States Coast Guard  
Marine Safety Laboratory  
Oil Spill Identification Report  
11-144**

**Requestor:** NOAA Marine Fisheries Service

**Unit Case/Activity Number:** LA455

**Received:** 02-Mar-11      **Via:** Federal Express      8604 4352 2113

**Number Of Samples:** 4

**Lab NO. of Spills:** n/a

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

**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 11-144-1, 2, 3 and 4 were specified to be representative of various samples collected as part of NOAA Case LA455. All samples were wrapped in aluminum foil. Analysis indicates:
  - A. Sample 11-144-1 contains moderately degraded crude oil. Non-petroleum contamination is present.
  - B. Sample 11-144-2 contains traces of petroleum oil. The quantity is not sufficient for conclusive comparison purposes based on the analysis conducted.
  - C. Samples 11-144-3 and 4 contain non-petroleum contamination and traces of hydrocarbons. It is not possible based on the analysis conducted to conclusively attribute the presence of hydrocarbons to the presence of petroleum oil due to an insufficient quantity of hydrocarbons in the samples.
2. Samples 10-095-1 and 10-220-8 contain crude oil with characteristics similar to those of sample 11-144-1. Differences are attributable to weathering and non-petroleum contamination.

**CONCLUSIONS:**

1. Sample 11-144-1 is derived from the Deepwater Horizon oil spill.
2. Sample 11-144-2, 3 and 4 do not contain a quantity of petroleum oil sufficient for comparison purposes based on the analysis conducted.

**SUPERVISOR OF ANALYSIS** \_\_\_\_\_

K. JUAIRE



**DATE** 03-Mar-11

Page 1 of 1

---

**United States Coast Guard  
Marine Safety Laboratory**

**Oil Spill Identification Analysis  
Cost Recovery Documentation**

---

**Laboratory Case Number:** 11-144  
**Requestor:** NOAA Marine Fisheries Service  
**Unit Case Number:** LA455  
**Number of Samples:** 6  
**Cost Per Sample Prepared:** \$20.00  
**Total Costs of Sample Preparation:** \$120.00  
**Number of Analysis:** 18  
**Cost Per Sample Prepared:** \$86.00  
**Total Costs for Analysis:** \$1,548.00  
**TOTAL COSTS:** \$1,668.00

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:** 03 Mar 2011

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

**MSL Case/Activity Number: 11-144**

**Requestor:** NOAA Marine Fisheries Service

**Unit Case Number** LA455

**Federal Project Number:**

**Delivery Method:** Federal Express

**Received Date:** 02 Mar 11

**Delivery Number:** 8604 4352 2113

**Priority:** Yes                      **Rush:** No                      **Comparison:** Yes

Lab Number	Sample Descriptions from Sample Jars	Spill	Source
11-144			
1	TURSIOPS TRUNCATUS GRAND TERRE N 29.28 184 W-89.92 566 MCT-20110228-LA001 [VENTRAL] 02-28-2011 0925		✓
2	TURSIOPS TRUNCATUS GRAND TERRE N 29.28 184 W-89.92 566 MCT-20110228-LA001 [DORSAL] 02-28-2011 0925		✓
3	TURSIOPS TRUNCATUS GRAND TERRE N 29.28 184 W-89.92 566 MCT-20110228-LA001 [MOUTH SWAB] 02-28-2011 0925		✓
4	TURSIOPS TRUNCATUS GRAND TERRE N 29.28 184 W-89.92 566 MCT-20110228-LA001 [BLOHOLE DORSAL SWAB] 02-28-2011 0925		✓
5			
6			
7			
8			
9			
10			

**Remarks:** Compare to DWH. Samples designated as "source" for comparison purposes only. Information in square brackets indicate data taken from foil.

**Samples checked in by:** MST3 MIKE RUSHANE



**Date:** 02 Mar 11

**Sample Custodian:** MST1 ALICIA TODMAN



**Date:** 02 MAR 11

**Supervisor of Analysis:** K. JUAIRE



**Date:** 03 MAR 11

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

**MSL Case/Activity Number: 10-095**

**Requestor:** Marine Safety Unit Morgan City

**Unit Case Number** 3721503

**Federal Project Number:** N10036

**Delivery Method:** Federal Express

**Received Date:** 14 May 10

**Delivery Number:** 8697 9761 8027 / 8049

**Priority:** Yes

**Rush:** No

**Comparison** No

Lab Number 10-095	Sample Descriptions from Sample Jars	Spill	Source
1	DTS-6 5,000 FT VESSEL: SKANDI - NEPTUNE 65% OIL KMS,ADM 5-5-10 1813	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2	DTS-6 VESSEL: SKANDI NEPTUNE < 1% OIL BOTTOM KMS,ADM 5-5-10 1813	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3		<input type="checkbox"/>	<input type="checkbox"/>
4		<input type="checkbox"/>	<input type="checkbox"/>
5		<input type="checkbox"/>	<input type="checkbox"/>
6		<input type="checkbox"/>	<input type="checkbox"/>
7		<input type="checkbox"/>	<input type="checkbox"/>
8		<input type="checkbox"/>	<input type="checkbox"/>
9		<input type="checkbox"/>	<input type="checkbox"/>
10		<input type="checkbox"/>	<input type="checkbox"/>
<b>Remarks:</b> ID ONLY.			

**Samples checked in by:** MST1 ALICIA TODMAN *Alicia Todman* **Date:** 14 May 10

**Sample Custodian:** MST2 JOHN AGAPITO *John Agapito* **Date:** 5/21/10

**Supervisor of Analysis:** K. JUAREZ *Kristy Juarez* **Date:** ~~10~~ <sup>KLJ</sup> 01 JUN 10

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

**MSL Case/Activity Number: 10-220**

**Requestor:** Sector Mobile

**Unit Case Number:** 3789039

**Federal Project Number:**

**Delivery Method:** Federal Express

**Received Date:** 09 Jul 10

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

**Priority:** No

**Rush:** No

**Comparison:** Yes

Lab Number 10-220	Sample Descriptions from Sample Jars	Spill	Source
1	PC1 PASS CHRISTIAN BEACH MISS TAR BALL 7JULY10 1016	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	PC2 PASS CHRISTIAN BEACH MISS. TAR BALL 7JULY10 1020	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	LB1 LONG BEACH MISS TAR BALLS 7JULY10 1123	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	LB2 LONG BEACH MISS TAR BALLS 7JULY10 1130	<input checked="" type="checkbox"/>	<input type="checkbox"/>
5	3789039-GS1-SMW FIRST TAR PATTY TAKEN FROM GULF SHORES, AL.	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	3789039-GS2-SMW SECOND TAR PATTY TAKEN FROM GULF SHORES ,AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7	3789039-FM1-SMW FIRST TAR PATTY TAKEN FROM FORT MORGAN, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
8	3789039-FM2-SMW SECOND TAR PATTY TAKEN FROM FORT MORGAN, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	3789039-DI1-SMW FIRST TAR PATTY TAKEN FROM DAUPHIN ISLAND, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>
10	3789039-DI2-SMW SECOND TAR PATTY TAKEN FROM DAUPHIN ISLAND, AL. 07JUL2010	<input checked="" type="checkbox"/>	<input type="checkbox"/>

**Remarks:** Compare to Deepwater Horizon.

**Samples checked in by:** MST3 ZACHARY COTE

*Zachary A. Cote*

**Date:** 09 Jul 10

**Sample Custodian:** MST2 JOHN AGAPITO

*John Agapito*

**Date:** 13 JUL 10

**Supervisor of Analysis:** K. JUAIRE

*Kristy Juarez*

**Date:** 14 JUL 10