



# Total Extractable Petroleum Hydrocarbons (Diesel)

## Case Narrative

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### **NMED Hazardous Waste Bureau**

#### **KAFB - BFF**

Work Order Number: 1105419

1. This report consists of 2 water samples. The samples were received cool and intact by ALS on 05/27/2011.
2. The water samples were extracted by adding hexane to the water sample and shaking the resulting two phase solution according to SOP 603 Revision 12, which was developed at ALS. The hydrocarbons partition into the hexane layer, which is then removed for analysis.
3. The extracts were then analyzed using GC with a ZB-5HT capillary column and a flame ionization detector (FID) according to SOP 406 Revision 15 generally based on SW-846 Method 8000B and Method 8015B. The procedures are based on this general method because SW-846 does not have a specific method for total extractable petroleum hydrocarbons (TEPH) or diesel range organics. The only true modification from this method is that TEPH is a multicomponent mixture and is quantitated by summing the entire range, rather than individual peaks. All positive results were quantitated using the responses from the initial calibration curve using the external standard technique. Also, a confirmation column is not used, because the analyte is a multicomponent mixture and the specific carbon range of the peaks detected is specified on the individual sample reporting forms.
4. All initial and continuing calibration criteria were met.
5. The method blank associated with this project was below the MDL for diesel range organics.
6. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
7. Per method requirements, matrix QC was performed for this analysis. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.



8. All samples were extracted and analyzed within the established holding time.
9. All surrogate recoveries were within the acceptance criteria.
10. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Mindy Norton  
Mindy Norton  
Organics Primary Data Reviewer

6.15.11  
Date

Joel Nogue  
Organics Final Data Reviewer

6.15.11  
Date



**ALS**  
**Data Qualifier Flags**  
**Fuels**

- G:** This flag indicates that a pattern resembling gasoline was detected in this sample.
- D:** This flag indicates that a pattern resembling diesel was detected in this sample.
- M:** This flag indicates that a pattern resembling motor oil was detected in this sample.
- C:** This flag indicates that a pattern resembling crude oil was detected in this sample.
- 4:** This flag indicates that a pattern resembling JP-4 was detected in this sample.
- 5:** This flag indicates that a pattern resembling JP-5 was detected in this sample.
- H:** This flag indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.
- L:** This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.
- Z:** This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:  
gasoline  
JP-8  
diesel  
mineral spirits  
motor oil  
Stoddard solvent  
bunker C

Multiple flags may be used to indicate the presence of more than one product or component.



**ALS**  
**Data Qualifier Flags**  
**Chromatography and Mass Spectrometry**

- U or ND:** This flag indicates that the compound was analyzed for but not detected.
- J:** This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the data indicate the presence of a compound that meets the identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.
- B:** This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.
- E:** This flag identifies compounds whose concentration exceeds the upper level of the calibration range.
- A:** This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.
- X:** This flag indicates that the analyte was diluted below an accurate quantitation level.
- \*:** This flag indicates that a spike recovery is outside the control criteria.
- +:** This flag indicates that the relative percent difference (RPD) exceeds the control criteria.

# ALS Environmental -- FC

## Sample Number(s) Cross-Reference Table

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**OrderNum:** 1105419

**Client Name:** NMED Hazardous Waste Bureau

**Client Project Name:** KAFB - BFF

**Client Project Number:**

**Client PO Number:** 10-667-00-13453

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
10628-A	1105419-1		WATER	26-May-11	10:08
10628-B	1105419-2		WATER	26-May-11	10:20
10628-C	1105419-3		WATER	26-May-11	10:25
10628-D	1105419-4		WATER	26-May-11	10:35
10628-E	1105419-5		WATER	26-May-11	10:37
10628-F	1105419-6		WATER	26-May-11	10:40
10628-G	1105419-7		WATER	26-May-11	10:42
10628-H	1105419-8		WATER	26-May-11	10:43
10628-I	1105419-9		WATER	26-May-11	10:46
10628-J	1105419-10		WATER	26-May-11	10:50
11628-A	1105419-11		WATER	26-May-11	11:09
11628-B	1105419-12		WATER	26-May-11	11:21
11628-C	1105419-13		WATER	26-May-11	11:26
11628-D	1105419-14		WATER	26-May-11	11:37
11628-E	1105419-15		WATER	26-May-11	11:39
11628-F	1105419-16		WATER	26-May-11	11:43
11628-G	1105419-17		WATER	26-May-11	11:44
11628-H	1105419-18		WATER	26-May-11	11:46
11628-I	1105419-19		WATER	26-May-11	11:49
11628-J	1105419-20		WATER	26-May-11	11:52



**ALS Laboratory Group**

225 Commerce Drive, Fort Collins, Colorado 80524  
 TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

**Chain-of-Custody**

Form 2028

PROJECT NAME <b>KATB-BFF</b>		SAMPLER SITE ID <b>KATB-10628</b>	DATE <b>5/26/11</b>		WORKORDER # <b>1105419</b>
PROJECT NO.	EDD FORMAT	TURNAROUND <b>NORMAL</b>		PAGE <b>1</b>	of <b>2</b>
COMPANY NAME <b>NMED</b>	PURCHASE ORDER	DATE <b>8/11/11</b>		DISPOSAL	By Lab or Return to Client
END REPORT TO <b>SID BRANDWEN</b>	BILL TO COMPANY <b>NMED / HWB</b>	DATE <b>8/15</b>			
ADDRESS <b>5500 SAN ANTONIO DR NE</b>	INVOICE ATTN TO <b>DAVE COBBAIN</b>	DATE <b>8/15</b>			
CITY/STATE/ZIP <b>ALBQ, NM, 87109</b>	ADDRESS <b>2905 RODEO PARK DR</b>	DATE <b>8/15</b>			
PHONE <b>505-222-9504</b>	CITY/STATE/ZIP <b>SANTA FE, NM 87505</b>	DATE <b>8/15/11</b>			
FAX	PHONE <b>505-476-6055</b>	DATE <b>8/15/11</b>			
E-MAIL <b>sid.brandwen@state.nm.us</b>	FAX	DATE <b>8/15/11</b>			
	E-MAIL	DATE <b>8/15/11</b>			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	Signature	Printed Name	Date	Time
1	10628-A	W	5/26/11	10:08	3	HCl	X	<i>Sid Brandwen</i>	S. BRANDWEN	5/26/11	13:30
2	10628-B	W	5/26/11	10:20	3	HCl	X	<i>James Coibant</i>	James Coibant	5/27/11	9:55
3	10628-C	W	5/26/11	10:25	3	HCl	X				
4	10628-D	W	5/26/11	10:35	1	-	X				
5	10628-E	W	5/26/11	10:37	1	-	X				
6	10628-F	W	5/26/11	10:40	1	-	X				
7	10628-G	W	5/26/11	10:42	1	H <sub>2</sub> SO <sub>4</sub>	X				
8	10628-H	W	5/26/11	10:43	1	ZnOAc	X				
9	10628-I	W	5/26/11	10:46	1	HNO <sub>3</sub>	X				
10	10628-J	W	5/26/11	10:50	1	HNO <sub>3</sub>	X				

Legend: (Circle) EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

metals or anions, please detail analytes below.

QC PACKAGE (check below)	RELINQUISHED BY
LEVEL II (Standard QC)	
LEVEL III (Std QC + forms)	
LEVEL IV (Std QC + forms + raw data)	
RECEIVED BY	

NOT MET = TAL  
 155 MET - Fe, Mn only  
 SHOULD BE "HOT"

Interference: 1-HCl 2-HNO<sub>3</sub> 3-H<sub>2</sub>SO<sub>4</sub> 4-NaOH 5-NaHSO<sub>4</sub> 7-Other 8-4 degrees C 9-5035



# ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524  
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# Chain-of-Custody

Form 20216

PROJECT NAME	KAFB - BFF	SAMPLER	SSB	DATE	5/26/11	WORKORDER #	1106419
PROJECT NO.		SITE ID	KAFB-11628	TURNAROUND	NORMAL	PAGE	2 of 2
COMPANY NAME	NMED	EDD FORMAT				DISPOSAL	By Lab or Return to Client
SEND REPORT TO	510 BRANDWEIN	PURCHASE ORDER					
ADDRESS	5500 SAN ANTONIO DRIVE	BILL TO COMPANY	NMED/HWB				
CITY/STATE/ZIP	ALBQ, NM 87109	INVOICE ATTN TO	DAVE COBRAN				
PHONE	505-222-9504	ADDRESS	2905 RODEO PARK DR				
FAX		CITY/STATE/ZIP	SANTA FE, NM 87505				
E-MAIL	s.d.brandwein@state.nm.us	PHONE	505-476-6055				
Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
①	11628 - A	W	5/26/11	11:09	3	HCl	
②	11628 - B	W		11:21	3	HCl	
③	11628 - C	W		11:26	3	HCl	
④	11628 - D	W		11:37	1	-	
⑤	11628 - E	W		11:39	1	-	
⑥	11628 - F	W		11:43	1	-	
⑦	11628 - G	W		11:44	1	H <sub>2</sub> O <sub>2</sub>	
⑧	11628 - H	W		11:46	1	ZnAc	
⑨	11628 - I	W		11:49	1	HCl	
⑩	11628 - J	W	5/26/11	11:52	1	HCl	

Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filter

For metals or anions, please detail analytes below.

Comments: TWT METALS - TAL  
Diss Met. - Fe, Mn only  
SHOULD BE "HOT"

RELINQUISHED BY	S. BRANDWEIN	SIGNATURE	S. BRANDWEIN	DATE	5/26/11	TIME	13:30
RECEIVED BY	James Coart				5/27/11		9:55
RELINQUISHED BY							
RECEIVED BY							
RELINQUISHED BY							
RECEIVED BY							

OC PACKAGE (check below)  
 LEVEL II (Standard QC)  
 LEVEL III (Std OC + forms)  
 LEVEL IV (Std OC + forms + raw data)

Reservatory Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED  
Project Manager: LRS

Workorder No: 1105419  
Initials: JAC Date: 5/27/11

1. Does this project require any <b>special handling</b> in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on <b>shipping containers</b> intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on <b>sample containers</b> intact?	<del>NONE</del>	<input checked="" type="radio"/> YES	NO
4. Is there a <b>COC (Chain-of-Custody) present</b> or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the <b>COC and bottle labels complete and legible</b> ?		<input checked="" type="radio"/> YES	NO
6. Is the <b>COC in agreement</b> with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were <b>airbills / shipping documents</b> present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
* 8. Are all <b>aqueous samples requiring preservation preserved correctly</b> ? (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous <b>non-preserved samples pH 4-9</b> ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there <b>sufficient sample</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the <b>proper containers</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within <b>holding times</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received <b>intact</b> ? (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring <b>no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)</b> headspace free? Size of bubble: _____ < green pea _____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples <b>have headspace</b> ? (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of <b>residual chlorine</b> ? (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples <b>shipped on ice</b> ?		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>2.4°</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO / NA (If no, see Form 008.)			

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

\*8 please see page 2

If applicable, was the client contacted? YES / NO / NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: [Signature] 5/29/11



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED

Workorder No: 1105415

Project Manager: LRS

Initials: JAC Date: 2/27/14

Additional Information:

↓ DRO bottles arrived without H<sub>2</sub>SO<sub>4</sub>, so added at lab

*ok*

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? YES / NO / NA

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? YES (See Table below) / NO

pH Excursion:

Laboratory Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1105419-5-1	10628-B	7	< 2	H <sub>2</sub> SO <sub>4</sub>	0.5	49245	<del>GRO</del> <sup>DRO</sup>	JAC 2/27/14 11:20
↓ -15-1	11628-B	↓	↓	↓	0.5	↓	DRO	↓

*ok*

If applicable, was the client contacted? YES / NO / NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: *LRS* / 2/27/14

**FedEx** NEW Package  
Express US Airbill

FedEx Tracking Number

8762 4637 7264

Recipient's Copy

1 From Date 5/26/11

Sender's Name S. BRADWEN Phone 502-222-7504

Company MMED 2.4

Address 5500 SW ASTOR DR NE Dept./Suite/Room

City AUBURN State NM ZIP 87109

2 Your Internal Billing Reference

3 To Recipient's Name L. STECKE Phone 770 491-1511

Company ALS LAB

Address 225 S. GARDNER Dept./Room/Suite/Room

Address FT. COLLINS State CO ZIP 80524



8762 4637 7264

4 Express Package Service \*To most locations. For packages over 150 lbs., see our FedEx Express Weight & Size chart.

NOTE: Service order has changed. Please select carefully.

**Next Business Day**

FedEx First Overnight  
Earliest next business morning delivery to select business addresses. Delivery is guaranteed on Monday unless SATURDAY Delivery is selected.

FedEx Priority Overnight  
Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Standard Overnight  
Next business afternoon. Saturday Delivery NOT available.

**2 or 3 Business Days**

NEW FedEx 2Day A.M.  
Second business morning. Saturday Delivery NOT available.

FedEx 2Day  
Second business afternoon. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx Express Saver  
Third business day. Saturday Delivery NOT available.

**Packaging** \*Declared value limit \$500.

FedEx Envelope\*  FedEx Pak\*  FedEx Box  Other  FedEx Tube

5 Special Handling and Delivery Signature Options

SATURDAY Delivery  
NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver.

No Signature Required  
No signature is required for delivery. Obtain a signature for delivery.

Direct Signature  
Someone at recipient's address may sign for delivery. Fee applies.

Indirect Signature  
If no one is available at recipient's address, someone at a neighboring residential address only. Fee applies.

Does this shipment contain dangerous goods?

No  Yes attached Shipper's Declaration not required.

Yes attached Shipper's Declaration not required.

Dry Ice  
Dry Ice, 9, UN 1845  Cargo Aircraft Only

7 Payment Bill to:

Sender  Recipient  Third Party  Credit Card  Cash/Check

Obtain recip. Acct. No.

Total Packages  Total Weight  Total Declared Value\*  Credit Card Auth.

lbs. \$ .00

Your liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

# Diesel Range Organics

Method SW8015MB

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1105419

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Lab ID: EX110531-4MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 31-May-11

Date Analyzed: 08-Jun-11

Prep Batch: EX110531-4

QCBatchID: EX110531-4-1

Run ID: HCD110607-3A

Cleanup: NONE

Basis: N/A

File Name: F3F39478

Sample Aliquot: 160 ml

Final Volume: 4 ml

Result Units: MG/L

Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.5	0.5	0.17	U	

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.21		1.25	97	57 - 132

Data Package ID: HCD1105419-1

Date Printed: Wednesday, June 15, 2011

ALS Environmental -- FC

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LIMS Version: 6.493

# Diesel Range Organics

## Method SW8015MB

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1105419

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Field ID:	10628-E
Lab ID:	1105419-5

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 26-May-11

Date Extracted: 31-May-11

Date Analyzed: 08-Jun-11

Prep Method: METHOD

Prep Batch: EX110531-4

QC Batch ID: EX110531-4-1

Run ID: HCD110607-3A

Cleanup: NONE

Basis: As Received

File Name: F3F39492

Sample Aliquot: 160 ml

Final Volume: 4 ml

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 163

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	4.7	0.5	0.17	L	

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.993		1.25	79	57 - 132

The chromatogram for Diesel Range Organics indicates the presence of hydrocarbons in the range of C10 - C20.

Data Package ID: HCD1105419-1

Date Printed: Wednesday, June 15, 2011

ALS Environmental -- FC

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LIMS Version: 6.493

# Diesel Range Organics

## Method SW8015MB

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1105419

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Field ID:	11628-E
Lab ID:	1105419-15

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 26-May-11

Date Extracted: 31-May-11

Date Analyzed: 08-Jun-11

Prep Method: METHOD

Prep Batch: EX110531-4

QC Batch ID: EX110531-4-1

Run ID: HCD110607-3A

Cleanup: NONE

Basis: As Received

File Name: F3F39493

Sample Aliquot: 160 ml

Final Volume: 4 ml

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 163

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	4.7	0.5	0.17	L	

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.932		1.25	75	57 - 132

The chromatogram for Diesel Range Organics indicates the presence of hydrocarbons in the range of C10 - C20.

Data Package ID: HCD1105419-1

Date Printed: Wednesday, June 15, 2011

ALS Environmental -- FC

Page 2 of 2

LIMS Version: 6.493

# Diesel Range Organics

## Method SW8015MB

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1105419

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Lab ID: EX110531-4LCS	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 05/31/2011 Date Analyzed: 06/08/2011 Prep Method: METHOD	Prep Batch: EX110531-4 QCBatchID: EX110531-4-1 Run ID: HCD110607-3A Cleanup: NONE Basis: N/A File Name: F3F39479	Sample Aliquot: 160 ml Final Volume: 4 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	5	4.58	0.5		92	36 - 150%

Lab ID: EX110531-4LCSD	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 05/31/2011 Date Analyzed: 06/08/2011 Prep Method: METHOD	Prep Batch: EX110531-4 QCBatchID: EX110531-4-1 Run ID: HCD110607-3A Cleanup: NONE Basis: N/A File Name: F3F39480	Sample Aliquot: 160 ml Final Volume: 4 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	Diesel Range Organics	5	4.67	0.5		93	20	2

### Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	1.25	90		90		57 - 132

Data Package ID: HCD1105419-1