



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Case Narrative for:
LA DEPT of ENVIRONMENTAL QUALITY

Certificate of Analysis Number:

L0018604

<p>Report To:</p> <p>LA DEPT of ENVIRONMENTAL QUALITY SANDY WACKETT 1209 LEESVILLE</p> <p>BATON ROUGE LA 70802- ph: (225) 219-3676 fax: (225) 219-9898</p>	<p>Project Name: AI 182981</p> <p>Site: BAYOU CORNE</p> <p>Site Address:</p> <p>PO Number:</p> <p>State: Louisiana</p> <p>State Cert. No.: 02048</p> <p>Date Reported: 8/6/2012</p>
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

Accutest Gulf Coast Laboratory is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

Cristina C. Thibeaux

Cristina Thibeaux
 Project Manager

L0018604 Page 1

8/6/2012

Date

Test results meet all requirements of NELAC, unless specified in the narrative.



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

LA DEPT of ENVIRONMENTAL QUALITY

Certificate of Analysis Number:

L0018604

Report To: LA DEPT of ENVIRONMENTAL QUALITY
 SANDY WACKETT
 1209 LEESVILLE

 BATON ROUGE
 LA
 70802-
 ph: (225) 219-3676 fax: (225) 219-9898

Project Name: AI 182981
Site: BAYOU CORNE
Site Address:

PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 8/6/2012

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
SITE- 1	L0018604-01	Water	08/04/2012 14:15	8/4/2012 6:35:00 PM		<input type="checkbox"/>
SITE- 2	L0018604-02	Water	08/04/2012 14:30	8/4/2012 6:35:00 PM		<input type="checkbox"/>
SITE- 3	L0018604-03	Water	08/04/2012 14:36	8/4/2012 6:35:00 PM		<input type="checkbox"/>

Cristina C. Thibeaux

Cristina Thibeaux
 Project Manager

8/6/2012

Date

Ron Benjamin
 Laboratory Director

Rebecca Haryett
 Quality Assurance Officer



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID: SITE- 2 Collected: 08/04/2012 14:30 Lab Sample ID: L0018604-02

Site: BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	552		12.5	10	08/04/12 19:30	RDH	4671815

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C				MCL	SW8015C	Units: mg/L	
Diesel Range Organics (C10-C28)	580		10	100	08/05/12 16:40	E_G	4672043
Surr: o-Terphenyl	D		% 47-125	100	08/05/12 16:40	E_G	4672043

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	08/05/2012 6:31	DGP	1.00

RECAP GASOLINE RANGE ORGANICS				MCL	SW8015C	Units: mg/L	
Gasoline Range Organics (C6-C10)	3.1		0.1	1	08/05/12 18:43	J_L	4672067
Surr: 1,4-Difluorobenzene	92.3		% 70-135	1	08/05/12 18:43	J_L	4672067
Surr: 4-Bromofluorobenzene	108		% 89-126	1	08/05/12 18:43	J_L	4672067

RECAP OIL RANGE ORGANICS				MCL	SW8015C	Units: mg/L	
Oil Range Organics (C28-C35)	110		1	10	08/05/12 15:54	E_G	4672050
Surr: o-Terphenyl	D		% 47-125	10	08/05/12 15:54	E_G	4672050

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	08/05/2012 6:32	DGP	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

L0018604 Page 4
 8/6/2012 9:23:16 AM



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID: SITE- 3 Collected: 08/04/2012 14:36 Lab Sample ID: L0018604-03

Site: BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	301		12.5	10	08/04/12 19:30	RDH	4671816

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C				MCL	SW8015C	Units: mg/L	
Diesel Range Organics (C10-C28)	510		10	100	08/05/12 17:03	E_G	4672044
Surr: o-Terphenyl	D		% 47-125	100	08/05/12 17:03	E_G	4672044

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	08/05/2012 6:31	DGP	1.00

RECAP GASOLINE RANGE ORGANICS				MCL	SW8015C	Units: mg/L	
Gasoline Range Organics (C6-C10)	1.7		0.1	1	08/05/12 19:17	J_L	4672068
Surr: 1,4-Difluorobenzene	92.5		% 70-135	1	08/05/12 19:17	J_L	4672068
Surr: 4-Bromofluorobenzene	97.4		% 89-126	1	08/05/12 19:17	J_L	4672068

RECAP OIL RANGE ORGANICS				MCL	SW8015C	Units: mg/L	
Oil Range Organics (C28-C35)	55		10	100	08/05/12 17:03	E_G	4672054
Surr: o-Terphenyl	D		% 47-125	100	08/05/12 17:03	E_G	4672054

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	08/05/2012 6:32	DGP	1.00

Qualifiers: ND/U - Not Detected at the Reporting Limit >MCL - Result Over Maximum Contamination Limit(MCL)
 B - Analyte Detected In The Associated Method Blank D - Surrogate Recovery Unreportable due to Dilution
 * - Surrogate Recovery Outside Advisable QC Limits MI - Matrix Interference
 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

Quality Control Documentation



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: **RECAP Diesel Range Organics by Method 8015C**
 Method: **SW8015C**

WorkOrder: **L0018604**
 Lab Batch ID: **114006**

Method Blank		Samples in Analytical Batch:	
RunID:	Units:	Lab Sample ID	Client Sample ID
TPHC_120805A-4672036	mg/L	L0018604-01B	SITE- 1
Analysis Date: 08/05/2012 13:38	Analyst: E_G	L0018604-02B	SITE- 2
Preparation Date: 08/05/2012 6:31	Prep By: DGP Method: SW3511	L0018604-03B	SITE- 3

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.10
Surr: o-Terphenyl	57.4	47-125

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC_120805A-4672037 Units: mg/L
 Analysis Date: 08/05/2012 14:00 Analyst: E_G
 Preparation Date: 08/05/2012 6:31 Prep By: DGP Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Diesel Range Organics (C10-C28)	6.00	3.42	57.0	6.00	3.44	57.3	0.6	26	21	140
Surr: o-Terphenyl	0.100	0.0580	58.0	0.100	0.0566	56.6	2.4	30	47	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte Detected In The Associated Method Blank
 J - Estimated Value Between MDL And PQL
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count

MI - Matrix Interference
 D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

L0018604 Page 7

8/6/2012 9:23:29 AM



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: RECAP Oil Range Organics
 Method: SW8015C

WorkOrder: L0018604
 Lab Batch ID: 114007

Method Blank

RunID: TPHC_120805B-4672048 Units: mg/L
 Analysis Date: 08/05/2012 13:38 Analyst: E_G
 Preparation Date: 08/05/2012 6:32 Prep By: DGP Method: SW3511

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0018604-01B	SITE- 1
L0018604-02B	SITE- 2
L0018604-03B	SITE- 3

Analyte	Result	Rep Limit
Oil Range Organics (C28-C35)	ND	0.10
Surr: o-Terphenyl	57.4	47-125

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: TPHC_120805B-4672052 Units: mg/L
 Analysis Date: 08/05/2012 17:25 Analyst: E_G
 Preparation Date: 08/05/2012 6:32 Prep By: DGP Method: SW3511

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Oil Range Organics (C28-C35)	2.77	1.56	56.2	2.77	2.07	74.9	28.4	29	40	149
Surr: o-Terphenyl	0.100	0.0493	49.3	0.100	0.0655	65.5	28.2	30	47	125

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte Detected In The Associated Method Blank
 J - Estimated Value Between MDL And PQL
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count
 MI - Matrix Interference
 D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

L0018604 Page 8

8/6/2012 9:23:30 AM



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: RECAP Gasoline Range Organics
 Method: SW8015C

WorkOrder: L0018604
 Lab Batch ID: R292459

Method Blank

RunID: HPOO_120805A-4672062 Units: mg/L
 Analysis Date: 08/05/2012 13:36 Analyst: J_L

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0018604-01A	SITE- 1
L0018604-02A	SITE- 2
L0018604-03A	SITE- 3

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	92.8	70-135
Surr: 4-Bromofluorobenzene	101.2	89-126

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPOO_120805A-4672060 Units: mg/L
 Analysis Date: 08/05/2012 12:28 Analyst: J_L

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Gasoline Range Organics (C6-C10)	5.00	5.39	108	5.00	5.42	108	0.6	7	77	118
Surr: 1,4-Difluorobenzene	30.0	28.6	95.5	30.0	26.8	89.3	6.7	30	70	135
Surr: 4-Bromofluorobenzene	30.0	30.5	102	30.0	30.6	102	0.4	30	89	126

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0018604-01
 RunID: HPOO_120805A-4672063 Units: mg/L
 Analysis Date: 08/05/2012 15:53 Analyst: J_L

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Gasoline Range Organics (C6-C10)	ND	5000	5170	103	5000	5060	101	2.01	7	77	118
Surr: 1,4-Difluorobenzene	ND	30000	30200	101	30000	28800	95.9	4.88	30	70	135
Surr: 4-Bromofluorobenzene	ND	30000	29800	99.4	30000	30700	102	2.97	30	89	126

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
 B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
 J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

L0018604 Page 9

8/6/2012 9:23:32 AM



ACCUTEST GULF COAST
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: RECAP Gasoline Range Organics
Method: SW8015C

WorkOrder: L0018604
Lab Batch ID: R292459

Qualifiers: ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

L0018604 Page 10

8/6/2012 9:23:32 AM

Version 2.1 - Modified February 11, 2011



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: Chloride by SM4500
 Method: M4500-CL C

WorkOrder: L0018604
 Lab Batch ID: R292447

Method Blank			Samples in Analytical Batch:	
RunID:	Units:	mg/L	Lab Sample ID	Client Sample ID
WET_120804A-4671808			L0018604-01C	SITE- 1
Analysis Date: 08/04/2012 19:30	Analyst: RDH		L0018604-02C	SITE- 2
			L0018604-03C	SITE- 3

Analyte	Result	Rep Limit
Chloride	ND	1.2

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_120804A-4671809 Units: mg/L
 Analysis Date: 08/04/2012 19:30 Analyst: RDH

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Chloride	150.0	152.1	101.4	150.0	148.8	99.19	2.2	10	90	110

Sample Duplicate

Original Sample: L0018604-01
 RunID: WET_120804A-4671811 Units: mg/L
 Analysis Date: 08/04/2012 19:30 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Chloride	635	618.6	2.67	20

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: L0018604-01
 RunID: WET_120804A-4671813 Units: mg/L
 Analysis Date: 08/04/2012 19:30 Analyst: RDH

Qualifiers: ND/U - Not Detected at the Reporting Limit MI - Matrix Interference
 B - Analyte Detected In The Associated Method Blank D - Recovery Unreportable due to Dilution
 J - Estimated Value Between MDL And PQL * - Recovery Outside Advisable QC Limits
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Quality Control Report

LA DEPT of ENVIRONMENTAL QUALITY

AI 182981

Analysis: Chloride by SM4500
 Method: M4500-CL C

WorkOrder: L0018604
 Lab Batch ID: R292447

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Chloride	635.3	1500	1939	86.93	1500	1839	80.25	5.310	20	80	120

Qualifiers: ND/U - Not Detected at the Reporting Limit
 B - Analyte Detected In The Associated Method Blank
 J - Estimated Value Between MDL And PQL
 E - Estimated Value exceeds calibration curve
 N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
 TNTC - Too numerous to count

MI - Matrix Interference
 D - Recovery Unreportable due to Dilution
 * - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

L0018604 Page 12

8/6/2012 9:23:34 AM

Version 2.1 - Modified February 11, 2011

*Sample Receipt Checklist
And
Chain of Custody*



ACCUTEST GULF COAST
 500 AMBASSADOR CAFFERY PARKWAY
 SCOTT, LA 70583
 (337) 237-4775

Sample Receipt Checklist

Workorder:	L0018604	Received By:	SRS
Date and Time Received:	8/4/2012 6:35:00 PM	Carrier name:	Client Drop Off
Temperature:	4.0°C	Chilled by:	Water Ice

1. Shipping container/cooler in good condition? Yes No Not Present
2. Custody seals intact on shipping container/cooler? Yes No Not Present
3. Custody seals intact on sample bottles? Yes No Not Present
4. Chain of custody present? Yes No
5. Chain of custody signed when relinquished and received? Yes No
6. Chain of custody agrees with sample labels? Yes No
7. Samples in proper container/bottle? Yes No
 VIALS NOT RECEIVED FOR GRO ANALYSIS. SAMPLE WAS DECANTED INTO VIALS UPON RECEIPT
8. Sample containers intact? Yes No
9. Sufficient sample volume for indicated test? Yes No
10. All samples received within holding time? Yes No
11. Container/Temp Blank temperature in compliance? Yes No
12. Water - VOA vials have zero headspace? Yes No VOA Vials Not Present
13. Water - Preservation checked upon receipt (except VOA*)? Yes No Not Applicable

*VOA Preservation Checked After Sample Analysis

Accutest Representative:
 Client Name Contacted:

Contact Date & Time:

Non Conformance Issues:

Client Instructions:

Name: Bayou Corne ID# AI 182981
 Address: 602 N + 5th St. BR, LA 70802
 Location: Bayou Corne - Slurry
 Parish: Assumption Team Leader: Karen Price
 Permit Number/Inspector's Log Number:
 Additional Team Members: M. David; M. Parker
 List any Field Data Sheets that accompany the sample
 Office _____ Org # _____ Project Code _____

Additional Comments:
GPS COORDINATES
SITE 2:
30° 0' 38.62" N
91° 8' 32.79" W
SITE 3:
30° 0' 40.77" N
91° 8' 32.82" W

Sample #/Sampler I.D.	Location ID/Outfall/ (Canister S.N.)	Date	Time	Sample Medium/Type	Methodology	Preservatives	Requested Analysis	Destination* AL, BL, RL, WL	Remarks (Priority, etc.)
SITE 2	site 2	8.4.12	1430	water	8015	HAL	PH-D, D, G Chlorides	?	Added COF 8/15/12
SITE 2	site 2	8.4.12	1430	water		NONE		1	
SITE 3	site 3	8.4.12	1436	water	8015	HAL		?	Added
SITE 3	site 3	8.4.12	1436	water		NONE		1	

Sample Number	Aliquot	Grab	Team	Witness Name/Signature	Title

CHAIN OF CUSTODY

Requisitioned by:	Date	Time	Received By:	Time
<u>M. David</u>	<u>8.4.12</u>	<u>15:34</u>	<u>M. David</u>	
<u>Karen Price</u>	<u>8.4.12</u>	<u>18:35</u>	<u>Karen Price</u>	

Recommended Sample Disposition: _____ Date: _____
 Final Sample Disposition: TIS 4.0 L NGS ⑦ ① RR 124 (13)

*AL=Air Lab, BL=Bioassay Lab, RL=Radiation Lab, WL=Water Lab