



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

Case Narrative for:
SHAW ENVIRONMENTAL & INFRASTRUCTURE

Certificate of Analysis Number:

L0021732

<p>Report To:</p> <p>SHAW ENVIRONMENTAL & INFRASTRUCTURE LISA PULTZ 4171 ESSEN LANE</p> <p>BATON ROUGE LA 70809- ph: (225) 932-2500 fax: (225) 987-7300</p>	<p>Project Name: 147497 LDNR- BAYOU CORNE (INDUST</p> <p>Site: LDNR/BAYOU CORNE</p> <p>Site Address:</p> <p>PO Number: 812666</p> <p>State: Louisiana</p> <p>State Cert. No.: 02048</p> <p>Date Reported: 11/7/2012</p>
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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).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Exception: SW6020 Total Metals- Batch 116196-I: The target metal, Manganese, was detected above the designated reporting limit in the method blank. The amount of Manganese detected in the method blank was less than ten percent of the amount in the samples indicating a negligible contribution effect from the blank contamination. Associated field sample results affected are reported with a "B" qualifier.

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

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11/8/2012

Cristina Thibeaux
 Project Manager

Date

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

Version 2.1 - Modified February 11, 2011



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SHAW ENVIRONMENTAL & INFRASTRUCTURE

Certificate of Analysis Number:

L0021732

Report To: SHAW ENVIRONMENTAL & INFRASTRUCTURE
 LISA PULTZ
 4171 ESSEN LANE

 BATON ROUGE
 LA
 70809-
 ph: (225) 932-2500 fax: (225) 987-7300

Project Name: 147497 LDNR- BAYOU CORNE (INDUS
Site: LDNR/BAYOU CORNE
Site Address:

PO Number: 812666
State: Louisiana
State Cert. No.: 02048
Date Reported: 11/7/2012

Fax To:

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
007-072-102612	L0021732-01	Water	10/26/2012 11:20	10/27/2012 9:45:00 AM		<input type="checkbox"/>
007-073-102612	L0021732-02	Water	10/26/2012 11:45	10/27/2012 9:45:00 AM		<input type="checkbox"/>
007-081-102612	L0021732-03	Water	10/26/2012 12:15	10/27/2012 9:45:00 AM		<input type="checkbox"/>
007-080-102612	L0021732-04	Water	10/26/2012 12:35	10/27/2012 9:45:00 AM		<input type="checkbox"/>

Cristina C. Thibeaux

Cristina Thibeaux
 Project Manager

11/7/2012

Date

Ron Benjamin
 Laboratory Director

 Rebecca Haryett
 Quality Assurance Officer

Client Sample ID 007-072-102612 Collected: 10/26/2012 11:20 Lab Sample ID: L0021732-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY, BICARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Bicarbonate (As CaCO3)	386		5.00	1	11/01/12 11:20	RDH	4780408
ALKALINITY, CARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Carbonate (As CaCO3)	ND		5.00	1	11/01/12 11:20	RDH	4780327
ANIONS BY IC USING EPA 300.0				MCL	E300.0	Units: mg/L	
Bromide	ND		500	2000	11/04/12 2:56	JMR	4782998
Chloride	3730		500	2000	11/04/12 2:56	JMR	4782998
Sulfate	ND		500	2000	11/04/12 2:56	JMR	4782998
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	3760		500	100	11/02/12 9:00	JMR	4781643

Prep Method	Prep Date	Prep Initials	Prep Factor
	11/02/2012 9:00		1.00

EXTRACTABLE PETROLEUM HYDROCARBONS- RECAP	MCL	MA_VPH_EPH	Units: mg/L
C10-C12 Aliphatics	ND	0.15	1 11/02/12 22:33 E_G 4783548
C10-C12 Aromatics	ND	0.15	1 11/02/12 22:33 E_G 4783427
C12-C16 Aliphatics	ND	0.15	1 11/02/12 22:33 E_G 4783548
C12-C16 Aromatics	ND	0.15	1 11/02/12 22:33 E_G 4783427
C16-C21 Aromatics	ND	0.15	1 11/02/12 22:33 E_G 4783427
C16-C35 Aliphatics	ND	0.15	1 11/02/12 22:33 E_G 4783548
C21-C35 Aromatics	ND	0.15	1 11/02/12 22:33 E_G 4783427
Surr: 2-Fluorobiphenyl	110	% 40-140	1 11/02/12 22:33 E_G 4783427
Surr: Chloro-octadecane	127	% 40-140	1 11/02/12 22:33 E_G 4783548
Surr: o-Terphenyl	152	* % 40-140	1 11/02/12 22:33 E_G 4783427

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/30/2012 9:57	JDF	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL	MCL	SW6020	Units: mg/L
Calcium	218	1	5 11/03/12 19:18 RJD 4785405
Iron	7.05	0.5	5 11/03/12 19:18 RJD 4785405
Magnesium	70.8	0.25	5 11/06/12 18:24 RJD 4787295
Manganese	0.435	B 0.01	5 11/03/12 19:18 RJD 4785405
Potassium	8.54	0.375	5 11/06/12 18:24 RJD 4787295
Sodium	1440	0.5	5 11/06/12 18:24 RJD 4787295

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

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11/7/2012 10:59:10 AM



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

Client Sample ID 007-072-102612 Collected: 10/26/2012 11:20 Lab Sample ID: L0021732-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>				
SW3010A	10/29/2012 17:00	LAB	1.00				

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C	MCL	SW8015C	Units: mg/L
Diesel Range Organics (C10-C28)	ND	0.1	1 10/31/12 1:14 E_G 4778962
Surr: o-Terphenyl	105	% 47-125	1 10/31/12 1:14 E_G 4778962

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:14	DGP	1.00

RECAP GASOLINE RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Gasoline Range Organics (C6-C10)	ND	0.1	1 10/30/12 10:12 JHP 4777241
Surr: 1,4-Difluorobenzene	95.4	% 70-135	1 10/30/12 10:12 JHP 4777241
Surr: 4-Bromofluorobenzene	97.1	% 89-126	1 10/30/12 10:12 JHP 4777241

RECAP OIL RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Oil Range Organics (C28-C35)	ND	0.1	1 10/31/12 1:14 E_G 4778992
Surr: o-Terphenyl	105	% 47-125	1 10/31/12 1:14 E_G 4778992

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:16	DGP	1.00

RECAP VOLATILE PETROLEUM HYDROCARBONS BY MA-DE	MCL	MA_VPH_EPH	Units: mg/L
C6-C8 Aliphatics	ND	0.03	1 10/31/12 19:49 RVS 4779601
C8-C10 Aliphatics	ND	0.06	1 10/31/12 19:49 RVS 4779601
C8-C10 Aromatics	ND	0.06	1 10/31/12 19:49 RVS 4779574
Surr: 2,5-Dibromotoluene	89.7	% 70-130	1 10/31/12 19:49 RVS 4779601
Surr: 2,5-Dibromotoluene	82.1	% 70-130	1 10/31/12 19:49 RVS 4779574

SPECIFIC CONDUCTANCE @ 25 C - SM2510B	MCL	M2510 B	Units: umhos/cm
Specific Conductance	8180	10.0	1 10/30/12 11:30 SM 4778566

TOTAL DISSOLVED SOLIDS BY SM2540 C	MCL	M2540 C	Units: mg/L
Total Dissolved Solids (Residue,filterable)	1200	10	1 10/31/12 13:30 SPM 4781866

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

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 11/7/2012 10:59:12 AM



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

Client Sample ID 007-072-102612 Collected: 10/26/2012 11:20 Lab Sample ID: L0021732-01

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER				MCL	SW8260B	Units: mg/L	
Benzene	ND		0.005	1	11/02/12 13:48	CDP	4782552
Ethylbenzene	ND		0.005	1	11/02/12 13:48	CDP	4782552
Toluene	ND		0.005	1	11/02/12 13:48	CDP	4782552
m,p-Xylene	ND		0.005	1	11/02/12 13:48	CDP	4782552
o-Xylene	ND		0.005	1	11/02/12 13:48	CDP	4782552
Xylenes, Total	ND		0.005	1	11/02/12 13:48	CDP	4782552
Surr: 1,2-Dichloroethane-d4	102		% 84-124	1	11/02/12 13:48	CDP	4782552
Surr: 4-Bromofluorobenzene	96.9		% 89-111	1	11/02/12 13:48	CDP	4782552
Surr: Toluene-d8	95.9		% 83-115	1	11/02/12 13:48	CDP	4782552

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

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

Client Sample ID 007-073-102612 Collected: 10/26/2012 11:45 Lab Sample ID: L0021732-02

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY, BICARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Bicarbonate (As CaCO3)	408		5.00	1	11/01/12 11:20	RDH	4780410
ALKALINITY, CARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Carbonate (As CaCO3)	ND		5.00	1	11/01/12 11:20	RDH	4780329
ANIONS BY IC USING EPA 300.0				MCL	E300.0	Units: mg/L	
Bromide	ND		500	2000	11/04/12 3:09	JMR	4782999
Chloride	2250		500	2000	11/04/12 3:09	JMR	4782999
Sulfate	ND		500	2000	11/04/12 3:09	JMR	4782999
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	2510		500	100	11/02/12 9:00	JMR	4781644

Prep Method	Prep Date	Prep Initials	Prep Factor
	11/02/2012 9:00		1.00

EXTRACTABLE PETROLEUM HYDROCARBONS- RECAP	MCL	MA_VPH_EPH	Units: mg/L
C10-C12 Aliphatics	ND	0.15	1 11/02/12 21:38 E_G 4783546
C10-C12 Aromatics	ND	0.15	1 11/02/12 21:38 E_G 4783425
C12-C16 Aliphatics	ND	0.15	1 11/02/12 21:38 E_G 4783546
C12-C16 Aromatics	ND	0.15	1 11/02/12 21:38 E_G 4783425
C16-C21 Aromatics	ND	0.15	1 11/02/12 21:38 E_G 4783425
C16-C35 Aliphatics	ND	0.15	1 11/02/12 21:38 E_G 4783546
C21-C35 Aromatics	ND	0.15	1 11/02/12 21:38 E_G 4783425
Surr: 2-Fluorobiphenyl	114	% 40-140	1 11/02/12 21:38 E_G 4783425
Surr: Chloro-octadecane	121	% 40-140	1 11/02/12 21:38 E_G 4783546
Surr: o-Terphenyl	147	* % 40-140	1 11/02/12 21:38 E_G 4783425

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/30/2012 9:57	JDF	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL	MCL	SW6020	Units: mg/L
Calcium	159	1	5 11/03/12 19:27 RJD 4785408
Iron	6.35	0.5	5 11/03/12 19:27 RJD 4785408
Magnesium	51.9	0.25	5 11/06/12 18:27 RJD 4787296
Manganese	0.351	B 0.01	5 11/03/12 19:27 RJD 4785408
Potassium	8.61	0.375	5 11/06/12 18:27 RJD 4787296
Sodium	1090	0.5	5 11/06/12 18:27 RJD 4787296

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
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 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count

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 11/7/2012 10:59:18 AM



Client Sample ID 007-073-102612 Collected: 10/26/2012 11:45 Lab Sample ID: L0021732-02

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>				
SW3010A	10/29/2012 17:00	LAB	1.00				

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C	MCL	SW8015C	Units: mg/L
Diesel Range Organics (C10-C28)	ND	0.1	1 10/31/12 1:41 E_G 4778963
Surr: o-Terphenyl	93.1	% 47-125	1 10/31/12 1:41 E_G 4778963

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:14	DGP	1.00

RECAP GASOLINE RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Gasoline Range Organics (C6-C10)	ND	0.1	1 10/30/12 10:42 JHP 4777242
Surr: 1,4-Difluorobenzene	95.2	% 70-135	1 10/30/12 10:42 JHP 4777242
Surr: 4-Bromofluorobenzene	98.3	% 89-126	1 10/30/12 10:42 JHP 4777242

RECAP OIL RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Oil Range Organics (C28-C35)	ND	0.1	1 10/31/12 1:41 E_G 4778993
Surr: o-Terphenyl	93.1	% 47-125	1 10/31/12 1:41 E_G 4778993

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:16	DGP	1.00

RECAP VOLATILE PETROLEUM HYDROCARBONS BY MA-DE	MCL	MA_VPH_EPH	Units: mg/L
C6-C8 Aliphatics	ND	0.03	1 10/31/12 20:21 RVS 4779602
C8-C10 Aliphatics	ND	0.06	1 10/31/12 20:21 RVS 4779602
C8-C10 Aromatics	ND	0.06	1 10/31/12 20:21 RVS 4779575
Surr: 2,5-Dibromotoluene	92.6	% 70-130	1 10/31/12 20:21 RVS 4779602
Surr: 2,5-Dibromotoluene	90.6	% 70-130	1 10/31/12 20:21 RVS 4779575

SPECIFIC CONDUCTANCE @ 25 C - SM2510B	MCL	M2510 B	Units: umhos/cm
Specific Conductance	6510	10.0	1 10/30/12 11:30 SM 4778567

TOTAL DISSOLVED SOLIDS BY SM2540 C	MCL	M2540 C	Units: mg/L
Total Dissolved Solids (Residue,filterable)	87	10	1 10/31/12 13:30 SPM 4781867

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
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 J - Estimated value between MDL and PQL
 E - Estimated Value exceeds calibration curve
 TNTC - Too numerous to count



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Client Sample ID 007-073-102612 Collected: 10/26/2012 11:45 Lab Sample ID: L0021732-02

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER				MCL	SW8260B	Units: mg/L	
Benzene	ND		0.005	1	11/02/12 14:18	CDP	4782553
Ethylbenzene	ND		0.005	1	11/02/12 14:18	CDP	4782553
Toluene	ND		0.005	1	11/02/12 14:18	CDP	4782553
m,p-Xylene	ND		0.005	1	11/02/12 14:18	CDP	4782553
o-Xylene	ND		0.005	1	11/02/12 14:18	CDP	4782553
Xylenes, Total	ND		0.005	1	11/02/12 14:18	CDP	4782553
Surr: 1,2-Dichloroethane-d4	104		% 84-124	1	11/02/12 14:18	CDP	4782553
Surr: 4-Bromofluorobenzene	94.8		% 89-111	1	11/02/12 14:18	CDP	4782553
Surr: Toluene-d8	95.2		% 83-115	1	11/02/12 14:18	CDP	4782553

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

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 11/7/2012 10:59:21 AM

Version 2.2 - Modified January 16, 2012

Client Sample ID 007-081-102612 Collected: 10/26/2012 12:15 Lab Sample ID: L0021732-03

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY, BICARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Bicarbonate (As CaCO3)	386		5.00	1	11/01/12 11:20	RDH	4780411
ALKALINITY, CARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Carbonate (As CaCO3)	ND		5.00	1	11/01/12 11:20	RDH	4780330
ANIONS BY IC USING EPA 300.0				MCL	E300.0	Units: mg/L	
Bromide	ND		500	2000	11/04/12 3:48	JMR	4783002
Chloride	3520		500	2000	11/04/12 3:48	JMR	4783002
Sulfate	ND		500	2000	11/04/12 3:48	JMR	4783002
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	4390		500	100	11/02/12 9:00	JMR	4781645

Prep Method	Prep Date	Prep Initials	Prep Factor
	11/02/2012 9:00		1.00

EXTRACTABLE PETROLEUM HYDROCARBONS- RECAP	MCL	MA_VPH_EPH	Units: mg/L
C10-C12 Aliphatics	ND	0.15	1 11/02/12 21:10 E_G 4783545
C10-C12 Aromatics	ND	0.15	1 11/02/12 21:10 E_G 4783424
C12-C16 Aliphatics	ND	0.15	1 11/02/12 21:10 E_G 4783545
C12-C16 Aromatics	ND	0.15	1 11/02/12 21:10 E_G 4783424
C16-C21 Aromatics	ND	0.15	1 11/02/12 21:10 E_G 4783424
C16-C35 Aliphatics	ND	0.15	1 11/02/12 21:10 E_G 4783545
C21-C35 Aromatics	ND	0.15	1 11/02/12 21:10 E_G 4783424
Surr: 2-Fluorobiphenyl	113	% 40-140	1 11/02/12 21:10 E_G 4783424
Surr: Chloro-octadecane	121	% 40-140	1 11/02/12 21:10 E_G 4783545
Surr: o-Terphenyl	140	% 40-140	1 11/02/12 21:10 E_G 4783424

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/30/2012 9:57	JDF	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL	MCL	SW6020	Units: mg/L
Calcium	218	1	5 11/03/12 19:30 RJD 4785409
Iron	9.11	0.5	5 11/03/12 19:30 RJD 4785409
Magnesium	69.3	0.25	5 11/06/12 18:42 RJD 4787299
Manganese	0.4	B 0.01	5 11/03/12 19:30 RJD 4785409
Potassium	7.76	0.375	5 11/06/12 18:42 RJD 4787299
Sodium	1430	0.5	5 11/06/12 18:42 RJD 4787299

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



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 SCOTT, LA 70583
 (337) 237-4775

Client Sample ID 007-081-102612 Collected: 10/26/2012 12:15 Lab Sample ID: L0021732-03

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>				
SW3010A	10/29/2012 17:00	LAB	1.00				

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C	MCL	SW8015C	Units: mg/L
Diesel Range Organics (C10-C28)	ND	0.1	1 10/31/12 2:07 E_G 4778964
Surr: o-Terphenyl	92.7	% 47-125	1 10/31/12 2:07 E_G 4778964

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:14	DGP	1.00

RECAP GASOLINE RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Gasoline Range Organics (C6-C10)	ND	0.1	1 10/30/12 13:43 JHP 4777246
Surr: 1,4-Difluorobenzene	94.9	% 70-135	1 10/30/12 13:43 JHP 4777246
Surr: 4-Bromofluorobenzene	96.5	% 89-126	1 10/30/12 13:43 JHP 4777246

RECAP OIL RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Oil Range Organics (C28-C35)	ND	0.1	1 10/31/12 2:07 E_G 4778994
Surr: o-Terphenyl	92.7	% 47-125	1 10/31/12 2:07 E_G 4778994

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:16	DGP	1.00

RECAP VOLATILE PETROLEUM HYDROCARBONS BY MA-DE	MCL	MA_VPH_EPH	Units: mg/L
C6-C8 Aliphatics	ND	0.03	1 10/31/12 20:51 RVS 4779603
C8-C10 Aliphatics	ND	0.06	1 10/31/12 20:51 RVS 4779603
C8-C10 Aromatics	ND	0.06	1 10/31/12 20:51 RVS 4779576
Surr: 2,5-Dibromotoluene	81.3	% 70-130	1 10/31/12 20:51 RVS 4779603
Surr: 2,5-Dibromotoluene	75.3	% 70-130	1 10/31/12 20:51 RVS 4779576

SPECIFIC CONDUCTANCE @ 25 C - SM2510B	MCL	M2510 B	Units: umhos/cm
Specific Conductance	8540	10.0	1 10/30/12 11:30 SM 4778568

TOTAL DISSOLVED SOLIDS BY SM2540 C	MCL	M2540 C	Units: mg/L
Total Dissolved Solids (Residue,filterable)	1190	10	1 10/31/12 13:30 SPM 4781868

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

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 11/7/2012 10:59:24 AM



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

Client Sample ID 007-081-102612 Collected: 10/26/2012 12:15 Lab Sample ID: L0021732-03

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER				MCL	SW8260B	Units: mg/L	
Benzene	ND		0.005	1	11/02/12 14:49	CDP	4782554
Ethylbenzene	ND		0.005	1	11/02/12 14:49	CDP	4782554
Toluene	ND		0.005	1	11/02/12 14:49	CDP	4782554
m,p-Xylene	ND		0.005	1	11/02/12 14:49	CDP	4782554
o-Xylene	ND		0.005	1	11/02/12 14:49	CDP	4782554
Xylenes, Total	ND		0.005	1	11/02/12 14:49	CDP	4782554
Surr: 1,2-Dichloroethane-d4	102		% 84-124	1	11/02/12 14:49	CDP	4782554
Surr: 4-Bromofluorobenzene	93.1		% 89-111	1	11/02/12 14:49	CDP	4782554
Surr: Toluene-d8	94.7		% 83-115	1	11/02/12 14:49	CDP	4782554

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

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Version 2.2 - Modified January 16, 2012



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

Client Sample ID 007-080-102612 Collected: 10/26/2012 12:35 Lab Sample ID: L0021732-04

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
ALKALINITY, BICARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Bicarbonate (As CaCO3)	420		5.00	1	11/01/12 11:20	RDH	4780412
ALKALINITY, CARBONATE (AS CaCO3)				MCL	M2320 B	Units: mg/L CaCO3	
Alkalinity, Carbonate (As CaCO3)	ND		5.00	1	11/01/12 11:20	RDH	4780331
ANIONS BY IC USING EPA 300.0				MCL	E300.0	Units: mg/L	
Bromide	ND		500	2000	11/04/12 4:01	JMR	4783003
Chloride	2430		500	2000	11/04/12 4:01	JMR	4783003
Sulfate	ND		500	2000	11/04/12 4:01	JMR	4783003
CHLORIDE BY SM4500				MCL	M4500-CL C	Units: mg/L	
Chloride	2350		500	100	11/02/12 9:00	JMR	4781646

Prep Method	Prep Date	Prep Initials	Prep Factor
	11/02/2012 9:00		1.00

EXTRACTABLE PETROLEUM HYDROCARBONS- RECAP	MCL	MA_VPH_EPH	Units: mg/L
C10-C12 Aliphatics	ND	0.15	1 11/02/12 20:42 E_G 4783544
C10-C12 Aromatics	ND	0.15	1 11/02/12 20:42 E_G 4783423
C12-C16 Aliphatics	ND	0.15	1 11/02/12 20:42 E_G 4783544
C12-C16 Aromatics	ND	0.15	1 11/02/12 20:42 E_G 4783423
C16-C21 Aromatics	ND	0.15	1 11/02/12 20:42 E_G 4783423
C16-C35 Aliphatics	ND	0.15	1 11/02/12 20:42 E_G 4783544
C21-C35 Aromatics	ND	0.15	1 11/02/12 20:42 E_G 4783423
Surr: 2-Fluorobiphenyl	98.0	% 40-140	1 11/02/12 20:42 E_G 4783423
Surr: Chloro-octadecane	115	% 40-140	1 11/02/12 20:42 E_G 4783544
Surr: o-Terphenyl	122	% 40-140	1 11/02/12 20:42 E_G 4783423

Prep Method	Prep Date	Prep Initials	Prep Factor
SW3511	10/30/2012 9:57	JDF	1.00

METALS BY METHOD 6020 (ICP/MS), TOTAL	MCL	SW6020	Units: mg/L
Calcium	169	1	5 11/03/12 19:33 RJD 4785410
Iron	6.48	0.5	5 11/03/12 19:33 RJD 4785410
Magnesium	60	0.25	5 11/06/12 18:45 RJD 4787300
Manganese	0.371	B 0.01	5 11/03/12 19:33 RJD 4785410
Potassium	6.92	0.375	5 11/06/12 18:45 RJD 4787300
Sodium	1210	0.5	5 11/06/12 18:45 RJD 4787300

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

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 11/7/2012 10:59:28 AM

Client Sample ID 007-080-102612 Collected: 10/26/2012 12:35 Lab Sample ID: L0021732-04

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>				
SW3010A	10/29/2012 17:00	LAB	1.00				

RECAP DIESEL RANGE ORGANICS BY METHOD 8015C	MCL	SW8015C	Units: mg/L
Diesel Range Organics (C10-C28)	ND	0.1	1 10/31/12 2:34 E_G 4778965
Surr: o-Terphenyl	99.0	% 47-125	1 10/31/12 2:34 E_G 4778965

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:14	DGP	1.00

RECAP GASOLINE RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Gasoline Range Organics (C6-C10)	ND	0.1	1 10/30/12 14:13 JHP 4777247
Surr: 1,4-Difluorobenzene	95.6	% 70-135	1 10/30/12 14:13 JHP 4777247
Surr: 4-Bromofluorobenzene	98.3	% 89-126	1 10/30/12 14:13 JHP 4777247

RECAP OIL RANGE ORGANICS	MCL	SW8015C	Units: mg/L
Oil Range Organics (C28-C35)	ND	0.1	1 10/31/12 2:34 E_G 4778995
Surr: o-Terphenyl	99.0	% 47-125	1 10/31/12 2:34 E_G 4778995

<u>Prep Method</u>	<u>Prep Date</u>	<u>Prep Initials</u>	<u>Prep Factor</u>
SW3511	10/29/2012 15:16	DGP	1.00

RECAP VOLATILE PETROLEUM HYDROCARBONS BY MA-DE	MCL	MA_VPH_EPH	Units: mg/L
C6-C8 Aliphatics	ND	0.03	1 10/31/12 21:23 RVS 4779604
C8-C10 Aliphatics	ND	0.06	1 10/31/12 21:23 RVS 4779604
C8-C10 Aromatics	ND	0.06	1 10/31/12 21:23 RVS 4779577
Surr: 2,5-Dibromotoluene	84.2	% 70-130	1 10/31/12 21:23 RVS 4779604
Surr: 2,5-Dibromotoluene	79.3	% 70-130	1 10/31/12 21:23 RVS 4779577

SPECIFIC CONDUCTANCE @ 25 C - SM2510B	MCL	M2510 B	Units: umhos/cm
Specific Conductance	6650	10.0	1 10/30/12 11:30 SM 4778569

TOTAL DISSOLVED SOLIDS BY SM2540 C	MCL	M2540 C	Units: mg/L
Total Dissolved Solids (Residue,filterable)	150	10	1 10/31/12 13:30 SPM 4781869

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

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

Client Sample ID 007-080-102612 Collected: 10/26/2012 12:35 Lab Sample ID: L0021732-04

Site: LDNR/BAYOU CORNE

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER				MCL	SW8260B	Units: mg/L	
Benzene	ND		0.005	1	10/31/12 1:17	CDP	4778498
Ethylbenzene	ND		0.005	1	10/31/12 1:17	CDP	4778498
Toluene	ND		0.005	1	10/31/12 1:17	CDP	4778498
m,p-Xylene	ND		0.005	1	10/31/12 1:17	CDP	4778498
o-Xylene	ND		0.005	1	10/31/12 1:17	CDP	4778498
Xylenes, Total	ND		0.005	1	10/31/12 1:17	CDP	4778498
Surr: 1,2-Dichloroethane-d4	99.9		% 84-124	1	10/31/12 1:17	CDP	4778498
Surr: 4-Bromofluorobenzene	110		% 89-111	1	10/31/12 1:17	CDP	4778498
Surr: Toluene-d8	98.7		% 83-115	1	10/31/12 1:17	CDP	4778498

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

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Quality Control Documentation

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

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

WorkOrder: L0021732
Lab Batch ID: 116186

Method Blank

RunID: TPHC_121030A-4778949 Units: mg/L
Analysis Date: 10/30/2012 17:49 Analyst: E_G
Preparation Date: 10/29/2012 15:14 Prep By: DGP Method SW3511

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01D	007-072-102612
L0021732-02D	007-073-102612
L0021732-03D	007-081-102612
L0021732-04D	007-080-102612

Analyte	Result	Rep Limit
Diesel Range Organics (C10-C28)	ND	0.10
Surr: o-Terphenyl	92.3	47-125

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

RunID: TPHC_121030A-4778950 Units: mg/L
Analysis Date: 10/30/2012 18:15 Analyst: E_G
Preparation Date: 10/29/2012 15:14 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	5.17	86.1	6.00	5.33	88.9	3.2	26	21	140
Surr: o-Terphenyl	0.100	0.111	111	0.100	0.109	109	1.4	30	47	125

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

Sample Spiked: L0021656-03
RunID: TPHC_121030A-4778952 Units: mg/L
Analysis Date: 10/30/2012 19:06 Analyst: E_G
Preparation Date: 10/29/2012 15:14 Prep By: DGP Method SW3511

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Diesel Range Organics (C10-C28)	ND	6	4.95	82.6	6	4.27	71.1	14.9	26	21	140
Surr: o-Terphenyl	ND	0.1	0.102	102	0.1	0.0884	88.4	13.9	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.

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Oil Range Organics
Method: SW8015C

WorkOrder: L0021732
Lab Batch ID: 116187

Method Blank

RunID: TPHC_121030B-4778986 Units: mg/L
Analysis Date: 10/30/2012 17:49 Analyst: E_G
Preparation Date: 10/29/2012 15:16 Prep By: DGP Method SW3511

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
L0021732-01D	007-072-102612
L0021732-02D	007-073-102612
L0021732-03D	007-081-102612
L0021732-04D	007-080-102612

Analyte	Result	Rep Limit
Oil Range Organics (C28-C35)	ND	0.10
Surr: o-Terphenyl	92.3	47-125

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

RunID: TPHC_121030B-4778987 Units: mg/L
Analysis Date: 10/30/2012 19:59 Analyst: E_G
Preparation Date: 10/29/2012 15:16 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)	2.79	2.13	76.2	2.79	2.79	100	27.0	29	40	149
Surr: o-Terphenyl	0.100	0.0854	85.4	0.100	0.108	108	23.3	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.

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11/7/2012 10:59:38 AM

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Extractable Petroleum Hydrocarbons- RECAP
Method: MA_VPH_EPH

WorkOrder: L0021732
Lab Batch ID: 116211

Method Blank

RunID: TPHA_121102C-4783419 Units: mg/L
Analysis Date: 11/02/2012 17:30 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF Method SW3511

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01E	007-072-102612
L0021732-02E	007-073-102612
L0021732-03E	007-081-102612
L0021732-04E	007-080-102612

Analyte	Result	Rep Limit
C10-C12 Aromatics	ND	0.15
C12-C16 Aromatics	ND	0.15
C16-C21 Aromatics	ND	0.15
C21-C35 Aromatics	ND	0.15
Surr: 2-Fluorobiphenyl	114.6	40-140
Surr: o-Terphenyl	134.9	40-140

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

RunID: TPHA_121102C-4783420 Units: mg/L
Analysis Date: 11/02/2012 17:57 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF 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
C10-C12 Aromatics	0.500	0.407	81.4	0.500	0.359	71.9	12.5	25	40	140
C12-C16 Aromatics	1.50	1.42	94.9	1.50	1.24	82.9	13.5	25	40	140
C16-C21 Aromatics	2.50	3.02	121	2.50	3.11	124	3.1	25	40	140
C21-C35 Aromatics	4.00	4.79	120	4.00	4.59	115	4.3	25	40	140
Surr: 2-Fluorobiphenyl	2.00	2.06	103	2.00	1.86	93.1	9.9	30	40	140
Surr: o-Terphenyl	0.400	0.472	118	0.400	0.397	99.3	17.2	30	40	140

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

Sample Spiked: L0021718-12
RunID: TPHA_121102C-4783431 Units: mg/L
Analysis Date: 11/03/2012 0:23 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF Method SW3511

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.

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11/7/2012 10:59:38 AM



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

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Extractable Petroleum Hydrocarbons- RECAP
 Method: MA_VPH_EPH

WorkOrder: L0021732
 Lab Batch ID: 116211

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C10-C12 Aromatics	ND	0.5	0.411	81.4	0.5	0.429	85.0	4.31	50	40	140
C12-C16 Aromatics	0.115	1.5	0.985	58.0	1.5	1.05	62.2	6.15	50	40	140
C16-C21 Aromatics	ND	2.5	2.91	117	2.5	3.17	127	8.33	50	40	140
C21-C35 Aromatics	ND	4	4.19	105	4	4.32	108	3.09	50	40	140
Surr: 2-Fluorobiphenyl	ND	2	2.08	104	2	2.22	111	6.79	30	40	140
Surr: o-Terphenyl	ND	0.4	0.478	120	0.4	0.522	131	8.75	30	40	140

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.

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Version 2.1 - Modified February 11, 2011

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Extractable Petroleum Hydrocarbons- RECAP
Method: MA_VPH_EPH

WorkOrder: L0021732
Lab Batch ID: 116211

Method Blank

RunID: TPHA_121102D-4783540 Units: mg/L
Analysis Date: 11/02/2012 17:30 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF Method SW3511

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01E	007-072-102612
L0021732-02E	007-073-102612
L0021732-03E	007-081-102612
L0021732-04E	007-080-102612

Analyte	Result	Rep Limit
C10-C12 Aliphatics	ND	0.15
C12-C16 Aliphatics	ND	0.15
C16-C35 Aliphatics	ND	0.15
Surr: Chloro-octadecane	139.4	40-140

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

RunID: TPHA_121102D-4783541 Units: mg/L
Analysis Date: 11/02/2012 17:57 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF 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
C10-C12 Aliphatics	0.500	0.421	84.2	0.500	0.446	89.2	5.7	25	40	140
C12-C16 Aliphatics	1.00	0.799	79.9	1.00	0.835	83.5	4.4	25	40	140
C16-C35 Aliphatics	4.50	3.53	78.4	4.50	3.71	82.5	5.1	25	40	140
Surr: Chloro-octadecane	0.400	0.380	95.0	0.400	0.367	91.9	3.4	30	40	140

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

Sample Spiked: L0021718-12
RunID: TPHA_121102D-4783552 Units: mg/L
Analysis Date: 11/03/2012 0:23 Analyst: E_G
Preparation Date: 10/30/2012 9:57 Prep By: JDF Method SW3511

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C10-C12 Aliphatics	ND	0.5	0.460	87.9	0.5	0.502	96.2	8.68	50	40	140

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.

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Extractable Petroleum Hydrocarbons- RECAP
 Method: MA_VPH_EPH

WorkOrder: L0021732
 Lab Batch ID: 116211

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

Sample Spiked: L0021718-12
 RunID: TPHA_121102D-4783552 Units: mg/L
 Analysis Date: 11/03/2012 0:23 Analyst: E_G
 Preparation Date: 10/30/2012 9:57 Prep By: JDF Method SW3511

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C12-C16 Aliphatics	ND	1	0.902	90.2	1	0.919	91.9	1.82	50	40	140
C16-C35 Aliphatics	ND	4.5	4.11	91.4	4.5	4.07	90.4	1.05	50	40	140
Surr: Chloro-octadecane	ND	0.4	0.454	113	0.4	0.441	110	2.92	30	40	140

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Gasoline Range Organics
Method: SW8015C

WorkOrder: L0021732
Lab Batch ID: R297617

Method Blank

RunID: HPAA_121030B-4777240 Units: mg/L
Analysis Date: 10/30/2012 9:41 Analyst: JHP

Analyte	Result	Rep Limit
Gasoline Range Organics (C6-C10)	ND	0.10
Surr: 1,4-Difluorobenzene	95.7	70-135
Surr: 4-Bromofluorobenzene	97.9	89-126

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01A	007-072-102612
L0021732-02A	007-073-102612
L0021732-03A	007-081-102612
L0021732-04A	007-080-102612

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

RunID: HPAA_121030B-4777238 Units: mg/L
Analysis Date: 10/30/2012 7:38 Analyst: JHP

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	5.06	101	5.00	5.13	103	1.4	7	77	118
Surr: 1,4-Difluorobenzene	30.0	32.7	109	30.0	32.5	108	0.5	30	70	135
Surr: 4-Bromofluorobenzene	30.0	30.7	102	30.0	30.7	102	0.1	30	89	126

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

Sample Spiked: L0021732-01
RunID: HPAA_121030B-4777243 Units: mg/L
Analysis Date: 10/30/2012 11:12 Analyst: JHP

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	100	109	109	100	112	112	2.20	7	77	118
Surr: 1,4-Difluorobenzene	ND	600	646	108	600	651	108	0.649	30	70	135
Surr: 4-Bromofluorobenzene	ND	600	602	100	600	622	104	3.26	30	89	126

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.

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

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Gasoline Range Organics
 Method: SW8015C

WorkOrder: L0021732
 Lab Batch ID: R297617

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

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Version 2.1 - Modified February 11, 2011

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Volatile Petroleum Hydrocarbons by MA-DEP
Method: MA_VPH_EPH

WorkOrder: L0021732
Lab Batch ID: R297742

Method Blank

RunID: HPEE_121030E-4779557 Units: mg/L
Analysis Date: 10/31/2012 8:54 Analyst: RVS

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01B	007-072-102612
L0021732-02B	007-073-102612
L0021732-03B	007-081-102612
L0021732-04B	007-080-102612

Analyte	Result	Rep Limit
C8-C10 Aromatics	ND	0.060
Surr: 2,5-Dibromotoluene	79.4	70-130

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

RunID: HPEE_121030E-4779555 Units: mg/L
Analysis Date: 10/31/2012 7:52 Analyst: RVS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C8-C10 Aromatics	0.250	0.243	97.3	0.250	0.223	89.3	8.6	50	70	130
Surr: 2,5-Dibromotoluene	200	162	80.9	200	157	78.3	3.3	30	70	130

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

Sample Spiked: L0021718-12
RunID: HPEE_121030E-4779578 Units: mg/L
Analysis Date: 10/31/2012 21:54 Analyst: RVS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C8-C10 Aromatics	ND	1.25	1.60	128	1.25	1.06	84.9	40.7	50	70	130
Surr: 2,5-Dibromotoluene	ND	1000	832	83.2	1000	787	78.7	5.64	30	70	130

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Volatile Petroleum Hydrocarbons by MA-DEP
Method: MA_VPH_EPH

WorkOrder: L0021732
Lab Batch ID: R297743

Method Blank

RunID: HPEE_121030F-4779584 Units: mg/L
Analysis Date: 10/31/2012 8:54 Analyst: RVS

Analyte	Result	Rep Limit
C6-C8 Aliphatics	ND	0.030
C8-C10 Aliphatics	ND	0.060
Surr: 2,5-Dibromotoluene	85.9	70-130

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01B	007-072-102612
L0021732-02B	007-073-102612
L0021732-03B	007-081-102612
L0021732-04B	007-080-102612

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

RunID: HPEE_121030F-4779582 Units: mg/L
Analysis Date: 10/31/2012 7:52 Analyst: RVS

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
C6-C8 Aliphatics	0.150	0.143	95.4	0.150	0.127	84.5	12.0	50	70	130
C8-C10 Aliphatics	0.250	0.270	108	0.250	0.253	101	6.5	50	70	130
Surr: 2,5-Dibromotoluene	200	168	84.2	200	168	84.2	0.1	30	70	130

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

Sample Spiked: L0021718-12
RunID: HPEE_121030F-4779605 Units: mg/L
Analysis Date: 10/31/2012 21:54 Analyst: RVS

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
C6-C8 Aliphatics	ND	0.75	0.706	91.8	0.75	0.659	85.5	6.89	50	70	130
C8-C10 Aliphatics	ND	1.25	1.27	102	1.25	1.15	92.2	9.79	50	70	130
Surr: 2,5-Dibromotoluene	ND	1000	901	90.1	1000	831	83.1	8.11	30	70	130

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
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11/7/2012 10:59:41 AM



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

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: RECAP Volatile Petroleum Hydrocarbons by MA-DEP
 Method: MA_VPH_EPH

WorkOrder: L0021732
 Lab Batch ID: R297743

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
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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020

WorkOrder: L0021732
Lab Batch ID: 116196-I

Method Blank

RunID: ICPMS_121103D-4785375 Units: mg/L
Analysis Date: 11/03/2012 17:47 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01F	007-072-102612
L0021732-02F	007-073-102612
L0021732-03F	007-081-102612
L0021732-04F	007-080-102612

Analyte	Result	Rep Limit
Calcium	ND	0.2
Iron	ND	0.1
Manganese	0.0182	0.002

Laboratory Control Sample (LCS)

RunID: ICPMS_121103D-4785376 Units: mg/L
Analysis Date: 11/03/2012 17:50 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Calcium	5.000	4.862	97.25	80	120
Iron	5.000	5.138	102.8	80	120
Manganese	0.1000	0.1048	104.8	80	120

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

Sample Spiked: L0021343-03
RunID: ICPMS_121103D-4785379 Units: mg/L
Analysis Date: 11/03/2012 17:59 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	203.7	5	195.1	N/C	5	229.8	N/C	N/C	20	75	125
Iron	125.3	5	111.9	N/C	5	131.7	N/C	N/C	20	75	125
Manganese	19.19	0.1	17.56	N/C	0.1	19.90	N/C	N/C	20	75	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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020

WorkOrder: L0021732
Lab Batch ID: 116196-I

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

Sample Spiked: L0021718-12
RunID: ICPMS_121103D-4785387 Units: mg/L
Analysis Date: 11/03/2012 18:22 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Calcium	163.9	5	173.2	N/C	5	172.4	N/C	N/C	20	75	125
Iron	0.9995	5	9.917	178.3 *	5	10.76	195.3 *	8.195	20	75	125
Manganese	10.67	0.1	11.09	N/C	0.1	11.37	N/C	N/C	20	75	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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Metals by Method 6020 (ICP/MS), Total
Method: SW6020

WorkOrder: L0021732
Lab Batch ID: 116196-I

Method Blank

RunID: ICPMS_121106B-4787277 Units: mg/L
Analysis Date: 11/06/2012 17:24 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01F	007-072-102612
L0021732-02F	007-073-102612
L0021732-03F	007-081-102612
L0021732-04F	007-080-102612

Analyte	Result	Rep Limit
Magnesium	ND	0.05
Potassium	ND	0.075
Sodium	ND	0.1

Laboratory Control Sample (LCS)

RunID: ICPMS_121106B-4787278 Units: mg/L
Analysis Date: 11/06/2012 17:28 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Magnesium	5.000	4.852	97.03	80	120
Potassium	5.000	4.953	99.05	80	120
Sodium	5.000	4.805	96.11	80	120

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

Sample Spiked: L0021718-12
RunID: ICPMS_121106B-4787281 Units: mg/L
Analysis Date: 11/06/2012 17:39 Analyst: RJD
Preparation Date: 10/29/2012 17:00 Prep By: LAB Method SW3010A

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Magnesium	72.22	5	73.31	N/C	5	74.85	N/C	N/C	20	75	125
Potassium	0.5317	5	4.696	83.29	5	4.740	84.17	0.9282	20	75	125
Sodium	814.3	5	756.5	N/C	5	774.2	N/C	N/C	20	75	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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Volatile Organics:Method 8260B:BTEX - water
Method: SW8260B

WorkOrder: L0021732
Lab Batch ID: R297691

Method Blank

Samples in Analytical Batch:

RunID: GA_121030A-4778482 Units: ug/L
Analysis Date: 10/30/2012 17:02 Analyst: CDP

Lab Sample ID L0021732-04A
Client Sample ID 007-080-102612

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes, Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	97.6	84-124
Surr: 4-Bromofluorobenzene	108.0	89-111
Surr: Toluene-d8	98.7	83-115

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

RunID: GA_121030A-4778480 Units: ug/L
Analysis Date: 10/30/2012 16:02 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.6	103	20.0	20.8	104	0.8	10	82	119
Ethylbenzene	20.0	21.6	108	20.0	21.5	107	0.8	10	84	117
Toluene	20.0	21.1	106	20.0	21.1	106	0.0	10	80	121
m,p-Xylene	40.0	44.5	111	40.0	44.9	112	0.9	10	82	121
o-Xylene	20.0	22.0	110	20.0	22.2	111	0.7	10	84	119
Xylenes, Total	60.0	66.5	111	60.0	67.1	112	0.8	10	81	122
Surr: 1,2-Dichloroethane-d4	50.0	51.6	103	50.0	51.0	102	1.3	30	84	124
Surr: 4-Bromofluorobenzene	50.0	53.1	106	50.0	54.0	108	1.5	30	89	111
Surr: Toluene-d8	50.0	48.8	97.7	50.0	49.2	98.4	0.7	30	83	115

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

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE

147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Volatile Organics:Method 8260B:BTEX - water
Method: SW8260B

WorkOrder: L0021732
Lab Batch ID: R297691

Sample Spiked: L0021732-04
RunID: GA_121030A-4778499 Units: ug/L
Analysis Date: 10/31/2012 1:48 Analyst: CDP

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	100	104	104	100	99.1	99.1	5.02	10	82	119
Ethylbenzene	ND	100	105	105	100	102	102	3.44	10	84	117
Toluene	ND	100	106	106	100	101	101	4.53	10	80	121
m,p-Xylene	ND	200	218	109	200	208	104	4.80	10	82	121
o-Xylene	ND	100	110	110	100	105	105	4.89	10	84	119
Xylenes, Total	ND	300	328	109	300	313	104	4.83	10	81	122
Surr: 1,2-Dichloroethane-d4	ND	250	257	103	250	256	102	0.477	30	84	124
Surr: 4-Bromofluorobenzene	ND	250	268	107	250	268	107	0.179	30	89	111
Surr: Toluene-d8	ND	250	242	96.9	250	241	96.5	0.452	30	83	115

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.

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Volatile Organics:Method 8260B:BTEX - water
 Method: SW8260B

WorkOrder: L0021732
 Lab Batch ID: R297884

Method Blank		Samples in Analytical Batch:	
RunID: GB_121102A-4782548	Units: ug/L	<u>Lab Sample ID</u>	<u>Client Sample ID</u>
Analysis Date: 11/02/2012 11:47	Analyst: CDP	L0021732-01A	007-072-102612
		L0021732-02A	007-073-102612
		L0021732-03A	007-081-102612

Analyte	Result	Rep Limit
Benzene	ND	5.0
Ethylbenzene	ND	5.0
Toluene	ND	5.0
m,p-Xylene	ND	5.0
o-Xylene	ND	5.0
Xylenes, Total	ND	5.0
Surr: 1,2-Dichloroethane-d4	101.2	84-124
Surr: 4-Bromofluorobenzene	96.1	89-111
Surr: Toluene-d8	95.8	83-115

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

RunID: GB_121102A-4782546 Units: ug/L
 Analysis Date: 11/02/2012 10:46 Analyst: CDP

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	20.0	20.0	99.9	20.0	21.5	108	7.4	10	82	119
Ethylbenzene	20.0	20.2	101	20.0	21.2	106	4.6	10	84	117
Toluene	20.0	20.3	102	20.0	20.9	104	2.6	10	80	121
m,p-Xylene	40.0	41.4	103	40.0	42.9	107	3.5	10	82	121
o-Xylene	20.0	20.2	101	20.0	21.0	105	3.7	10	84	119
Xylenes, Total	60.0	61.6	103	60.0	63.9	106	3.6	10	81	122
Surr: 1,2-Dichloroethane-d4	50.0	51.1	102	50.0	50.7	101	0.8	30	84	124
Surr: 4-Bromofluorobenzene	50.0	48.8	97.6	50.0	48.3	96.7	1.0	30	89	111
Surr: Toluene-d8	50.0	47.8	95.7	50.0	48.8	97.7	2.1	30	83	115

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

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Volatile Organics:Method 8260B:BTEX - water
Method: SW8260B

WorkOrder: L0021732
Lab Batch ID: R297884

Sample Spiked: L0021668-01
RunID: GB_121102A-4784447 Units: ug/L
Analysis Date: 11/02/2012 20:51 Analyst: CDP

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	348	200	538	94.8	200	533	92.6	0.821	10	82	119
Ethylbenzene	903	200	1430	N/C	200	1430	N/C	N/C	10	84	117
Toluene	593	200	867	137 *	200	857	132 *	1.18	10	80	121
m,p-Xylene	1800	400	2730	N/C	400	2720	N/C	N/C	10	82	121
o-Xylene	246	200	558	156 *	200	557	156 *	0.196	10	84	119
Xylenes, Total	2049	600	3288	207.1 *	600	3277	203.9 *	0.5784	10	81	122
Surr: 1,2-Dichloroethane-d4	ND	500	541	108	500	552	110	2.14	30	84	124
Surr: 4-Bromofluorobenzene	ND	500	498	99.7	500	498	99.6	0.00823	30	89	111
Surr: Toluene-d8	ND	500	492	98.4	500	489	97.8	0.579	30	83	115

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

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Specific Conductance @ 25 C - SM2510B
 Method: M2510 B

WorkOrder: L0021732
 Lab Batch ID: R297695

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Laboratory Control Sample (LCS)

RunID: WET_121030R-4778570 Units: umhos/cm
 Analysis Date: 10/30/2012 11:30 Analyst: SM

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Specific Conductance	1409	1402	99.50	90	110

Sample Duplicate

Original Sample: L0021772-01
 RunID: WET_121030R-4778551 Units: umhos/cm
 Analysis Date: 10/30/2012 11:30 Analyst: SM

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Specific Conductance	1160	1162	0.431	20

Sample Duplicate

Original Sample: L0021703-10
 RunID: WET_121030R-4778562 Units: umhos/cm
 Analysis Date: 10/30/2012 11:30 Analyst: SM

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Specific Conductance	2870	2869	0.105	20

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.

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

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Specific Conductance @ 25 C - SM2510B
Method: M2510 B

WorkOrder: L0021732
Lab Batch ID: R297695

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

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Version 2.1 - Modified February 11, 2011

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Alkalinity, Carbonate (as CaCO3)
 Method: M2320 B

WorkOrder: L0021732
 Lab Batch ID: R297771

Method Blank

RunID: WET_121101E-4780324 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 Analyst: RDH

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Analyte	Result	Rep Limit
Alkalinity, Carbonate (As CaCO3)	ND	5.0

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

RunID: WET_121101E-4780325 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 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
Alkalinity, Carbonate (As CaCO3)	200.0	188.1	94.05	200.0	190.1	95.04	1.0	20	90	110

Sample Duplicate

Original Sample: L0021732-01
 RunID: WET_121101E-4780327 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Carbonate (As CaCO3)	ND	ND	0	20

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.

Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Alkalinity, Bicarbonate (as CaCO3)
 Method: M2320 B

WorkOrder: L0021732
 Lab Batch ID: R297777

Method Blank

RunID: WET_121101F-4780405 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 Analyst: RDH

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Analyte	Result	Rep Limit
Alkalinity, Bicarbonate (As CaCO3)	ND	5.0

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

RunID: WET_121101F-4780406 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 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
Alkalinity, Bicarbonate (As CaCO3)	200.0	188.1	94.05	200.0	190.1	95.04	1.0	20	90	110

Sample Duplicate

Original Sample: L0021732-01
 RunID: WET_121101F-4780408 Units: mg/L CaCO3
 Analysis Date: 11/01/2012 11:20 Analyst: RDH

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Alkalinity, Bicarbonate (As CaCO3)	386	392	1.53	20

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Chloride by SM4500
Method: M4500-CL C

WorkOrder: L0021732
Lab Batch ID: R297845

Method Blank

RunID: WET_121102D-4781625 Units: mg/L
Analysis Date: 11/02/2012 9:00 Analyst: JMR
Preparation Date: 11/02/2012 9:00 Prep By: Method

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Analyte	Result	Rep Limit
Chloride	ND	5.0

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

RunID: WET_121102D-4781626 Units: mg/L
Analysis Date: 11/02/2012 9:00 Analyst: JMR
Preparation Date: 11/02/2012 9:00 Prep By: Method

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	142.7	95.14	150.0	144.3	96.19	1.1	10	90	110

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

Sample Spiked: L0021656-03
RunID: WET_121102D-4781637 Units: mg/L
Analysis Date: 11/02/2012 9:00 Analyst: JMR
Preparation Date: 11/02/2012 9:00 Prep By: Method

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	106.6	150	250.9	96.19	150	247.8	94.10	1.258	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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Total Dissolved Solids by SM2540 C
Method: M2540 C

WorkOrder: L0021732
Lab Batch ID: R297858

Method Blank

RunID: WET_121031X-4781846 Units: mg/L
Analysis Date: 10/31/2012 13:30 Analyst: SPM

Samples in Analytical Batch:

<u>Lab Sample ID</u>	<u>Client Sample ID</u>
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Analyte	Result	Rep Limit
Total Dissolved Solids (Residue,filterable)	ND	10

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

RunID: WET_121031X-4781847 Units: mg/L
Analysis Date: 10/31/2012 13:30 Analyst: SPM

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Total Dissolved Solids (Residue,filterab	200.0	193.0	96.50	200.0	197.0	98.50	2.1	20	90	110

Sample Duplicate

Original Sample: L0021546-01
RunID: WET_121031X-4781849 Units: mg/L
Analysis Date: 10/31/2012 13:30 Analyst: SPM

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Total Dissolved Solids (Residue,filterab	340	297	13.5	20

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

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Quality Control Report

SHAW ENVIRONMENTAL & INFRASTRUCTURE
 147497 LDNR- BAYOU CORNE (INDUSTRIAL WATER WELLS)

Analysis: Anions by IC using EPA 300.0
 Method: E300.0

WorkOrder: L0021732
 Lab Batch ID: R297907

Method Blank

RunID: IC_121103C-4782989 Units: mg/L
 Analysis Date: 11/04/2012 1:14 Analyst: JMR

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
L0021732-01C	007-072-102612
L0021732-02C	007-073-102612
L0021732-03C	007-081-102612
L0021732-04C	007-080-102612

Analyte	Result	Rep Limit
Bromide	ND	0.25
Chloride	ND	0.25
Sulfate	ND	0.25

Laboratory Control Sample (LCS)

RunID: IC_121103C-4782990 Units: mg/L
 Analysis Date: 11/04/2012 1:27 Analyst: JMR

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Bromide	12.50	11.87	94.95	90	110
Chloride	12.50	12.10	96.80	90	110
Sulfate	12.50	12.05	96.38	90	110

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

Sample Spiked: L0021546-01
 RunID: IC_121103C-4782993 Units: mg/L
 Analysis Date: 11/04/2012 1:52 Analyst: JMR

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Bromide	ND	50	49.66	99.31	50	49.23	98.46	0.8616	15	80	120
Chloride	28.07	50	78.95	101.8	50	72.29	88.42	8.817	15	80	120
Sulfate	54.95	50	108.6	107.4	50	102.9	95.87	5.434	15	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
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*Sample Receipt Checklist
And
Chain of Custody*



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

Sample Receipt Checklist

Workorder:	L0021732	Received By:	JF
Date and Time Received:	10/27/2012 9:45:00 AM	Carrier name:	FedEx-Pri Saturday Del
Temperature:	2.5°C	Chilled by:	Water Ice

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

*VOA Preservation Checked After Sample Analysis

Accutest Representative:

Contact Date & Time:

Client Name Contacted:

Non Conformance Issues:

Client Instructions:

