

ANALYTICAL RESULTS

PERFORMED BY

GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue
Baton Rouge, LA 70820

Report Date

GCAL Report 210090233



Deliver To Michael Pisani & Associates
1100 Poydras St
Suite 1430
New Orleans, LA 70163
504-582-2468

Attn Jonathan Miller

Project East White Lake 07-47

CASE NARRATIVE

Client: Michael Pisani & Associates **Report:** 210090233

Gulf Coast Analytical Laboratories received and analyzed the sample(s) listed on the sample cross-reference page of this report. Receipt of the sample(s) is documented by the attached chain of custody. This applies only to the sample(s) listed in this report. No sample integrity or quality control exceptions were identified unless noted below.

METALS

In the SW-846 6010B analysis for prep batch 441154, the MS/MSD recoveries are not applicable for Calcium, Sodium, and Magnesium because the sample concentration is greater than 4 times the spike concentration.

CONVENTIONALS

In the SM 4500 CL E (Chloride) analysis, all samples had to be diluted to bracket the concentration within the calibration range of the instrument.

In EPA 375.4 analysis, samples 21009023310 (PURVIS HEBERT WELL) and 21009023311 (A. CROUCH WELL) had to be diluted to bracket the concentration within the calibration range of the instrument.

Laboratory Endorsement

Sample analysis was performed in accordance with approved methodologies provided by the Environmental Protection Agency or other recognized agencies. The samples and their corresponding extracts will be maintained for a period of 30 days unless otherwise arranged. Following this retention period the samples will be disposed in accordance with GCAL's Standard Operating Procedures.

Common Abbreviations Utilized in this Report

ND	Indicates the result was Not Detected at the specified RDL
DO	Indicates the result was Diluted Out
MI	Indicates the result was subject to Matrix Interference
TNTC	Indicates the result was Too Numerous To Count
SUBC	Indicates the analysis was Sub-Contracted
FLD	Indicates the analysis was performed in the Field
PQL	Practical Quantitation Limit
MDL	Method Detection Limit
RDL	Reporting Detection Limit
00:00	Reported as a time equivalent to 12:00 AM

Reporting Flags Utilized in this Report

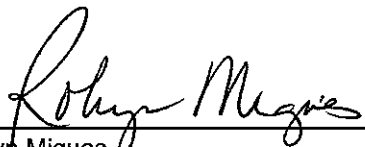
J	Indicates an estimated value
U	Indicates the compound was analyzed for but not detected
B	(ORGANICS) Indicates the analyte was detected in the associated Method Blank
B	(INORGANICS) Indicates the result is between the RDL and MDL

Sample receipt at GCAL is documented through the attached chain of custody. In accordance with NELAC, this report shall be reproduced only in full and with the written permission of GCAL. The results contained within this report relate only to the samples reported. The documented results are presented within this report.

This report pertains only to the samples listed in the Report Sample Summary and should be retained as a permanent record thereof. The results contained within this report are intended for the use of the client. Any unauthorized use of the information contained in this report is prohibited.

I certify that this data package is in compliance with the NELAC standard and terms and conditions of the contract and Statement of Work both technically and for completeness, for other than the conditions in the case narrative. Release of the data contained in this hardcopy data package and in the computer-readable data submitted has been authorized by the Quality Assurance Manager or his/her designee, as verified by the following signature.

Estimated uncertainty of measurement is available upon request. This report is in compliance with the DOD QSM as specified in the contract if applicable.



Robyn Miguez
Technical Director

GCAL REPORT 210090233

Report Sample Summary

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023301	J GUIDRY WELL AT 400 GAL	Water	09/01/2010 09:35	09/02/2010 13:12
21009023302	J GUIDRY WELL AT 525 GAL	Water	09/01/2010 10:00	09/02/2010 13:12
21009023303	PURVIS HEBERT WELL AT 5 GAL	Water	09/01/2010 11:25	09/02/2010 13:12
21009023304	PURVIS HEBERT WELL AT 25 GAL	Water	09/01/2010 11:35	09/02/2010 13:12
21009023305	A CROUCH WELL AT 1 GAL	Water	09/01/2010 12:20	09/02/2010 13:12
21009023306	A CROUCH SW	Water	09/01/2010 12:55	09/02/2010 13:12
21009023307	J GUIDRY WELL-1	Water	09/01/2010 10:50	09/02/2010 13:12
21009023308	J GUIDRY WELL-2	Water	09/01/2010 10:55	09/02/2010 13:12
21009023309	J GUIDRY WELL-3	Water	09/01/2010 11:00	09/02/2010 13:12
21009023310	PURVIS HEBERT WELL	Water	09/01/2010 11:45	09/02/2010 13:12
21009023311	A. CROUCH WELL	Water	09/01/2010 12:50	09/02/2010 13:12
21009023312	WELL 210	Water	09/01/2010 13:00	09/02/2010 13:12
21009023313	TRIP BLANK	Water	09/01/2010 00:00	09/02/2010 13:12

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023301	J GUIDRY WELL AT 400 GAL	Water	09/01/2010 09:35	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149

CAS#	Parameter	Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)	640	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/08/2010 09:33	AEL	441489

CAS#	Parameter	Result	RDL	REG LIMIT	Units
16887-00-6	Chloride	146	5.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	1116	10		umhos/cm

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023302	J GUIDRY WELL AT 525 GAL	Water	09/01/2010 10:00	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		620	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/08/2010 09:33	AEL	441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		149	5.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		1073	10		umhos/cm

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023303	PURVIS HEBERT WELL AT 5 GAL	Water	09/01/2010 11:25	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149

CAS#	Parameter	Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)	1730	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/08/2010 09:34	AEL	441489

CAS#	Parameter	Result	RDL	REG LIMIT	Units
16887-00-6	Chloride	804	20.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	2930	10		umhos/cm

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023304	PURVIS HEBERT WELL AT 25 GAL	Water	09/01/2010 11:35	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149

CAS#	Parameter	Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)	1810	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/08/2010 09:37	AEL	441489

CAS#	Parameter	Result	RDL	REG LIMIT	Units
16887-00-6	Chloride	827	20.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	3080	10		umhos/cm

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023305	A CROUCH WELL AT 1 GAL	Water	09/01/2010 12:20	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		2510	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/08/2010 09:38	AEL	441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		1320	20.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		4410	10		umhos/cm

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023306	A CROUCH SW	Water	09/01/2010 12:55	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149

CAS#	Parameter	Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)	970	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			10	09/08/2010 09:39	AEL	441489

CAS#	Parameter	Result	RDL	REG LIMIT	Units
16887-00-6	Chloride	523	10.0		mg/L

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	1880	10		umhos/cm

GCAL ID 21009023307	Client ID J.GUIDRY.WELL-1	Matrix Water	Collect Date/Time 09/01/2010 10:50	Receive Date/Time 09/02/2010 13:12
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SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/05/2010 15:05	MSS	441368

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.047	mg/L	94	78 - 130
1868-53-7	Dibromofluoromethane	.05	.05	mg/L	101	77 - 127
2037-26-5	Toluene d8	.05	.05	mg/L	100	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.05	mg/L	101	71 - 127

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/02/2010 16:00	441154	SW-846 3010A	1	09/10/2010 08:30	TEA	441642

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-39-3	Barium	0.78	0.010		mg/L
7440-43-9	Cadmium	ND	0.0050		mg/L
7440-70-2	Calcium	72.5	0.10		mg/L
7440-47-3	Chromium	ND	0.010		mg/L
7439-89-6	Iron	1.08	0.10		mg/L
7439-92-1	Lead	ND	0.015		mg/L
7439-95-4	Magnesium	23.8	0.10		mg/L
7439-96-5	Manganese	0.073	0.015		mg/L
7440-09-7	Potassium	2.68	0.50		mg/L
7782-49-2	Selenium	ND	0.040		mg/L
7440-23-5	Sodium	117	1.00		mg/L
7440-24-6	Strontium	0.57	0.050		mg/L
7440-86-6	Zinc	0.32	0.020		mg/L

SW-846 7010 Arsenic

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/03/2010 13:30	441205	SW-846 3020A	1	09/09/2010 11:28	CLB	441537

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-38-2	Arsenic	ND	0.010		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023307	J-GUIDRY WELL-1	Water	09/01/2010 10:50	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		604	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/08/2010 09:40	AEL	441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		139	5.0		mg/L

SM 2320B Carbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-C	Carbonate Alkalinity		ND	1.0		mg/L CaCO3

SM 2320B Bicarbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-B	Bicarbonate Alkalinity		340	1.0		mg/L CaCO3

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		1099	10		umhos/cm

EPA 375.4 Sulfate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2010 11:23	JEM	441670
CAS#	Parameter		Result	RDL	REG LIMIT	Units
14808-79-8	Sulfate		ND	5.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023307	J GUIDRY WELL-1	Water	9/1/2010 10:50	9/2/2010 13:12

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/14/2010 11:30	441902	7470A	1	9/14/2010 14:55	CLB	441900

CAS#	Parameter	Result	RDL	MDL	Units
C-007	Mercury	ND	0.00020	0.000055	mg/L

LA1006 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/7/2010 11:00	441250	1006	1	9/14/2010 15:44	SMH	91410

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-02-11	Aliphatic >C10-C12	ND	0.150	0.113	mg/L
GCSV-02-12	Aliphatic >C12-C16	ND	0.150	0.131	mg/L
GCSV-02-31	Aliphatic >C16-C35	ND	0.150	0.131	mg/L
GCSV-02-10	Aliphatic >C6-C10	ND	0.150	0.113	mg/L
GCSV-02-31	Aliphatic C6-C8	ND	0.150	0.113	mg/L
GCSV-02-15	Aromatic >C10-C12	ND	0.150	0.131	mg/L
GCSV-02-16	Aromatic >C12-C16	ND	0.150	0.131	mg/L
GCSV-02-17	Aromatic >C16-C21	ND	0.150	0.131	mg/L
GCSV-02-18	Aromatic >C21-C35	ND	0.150	0.131	mg/L
GCSV-02-14	Aromatic >C8-C10	ND	0.150	0.113	mg/L

CAS#	Surrogate	Conc.	Conc. Rec	Units	%	Rec Limits
84-15-1	o-Terphenyl	16.1	13.4	ug/L	83	60-140

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023308	J GUIDRY WELL-2	Water	09/01/2010 10:55	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 20:33	RJU	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.04	mg/L	79	78 - 130
1868-53-7	Dibromofluoromethane	.05	.052	mg/L	104	77 - 127
2037-26-5	Toluene d8	.05	.047	mg/L	94	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.051	mg/L	103	71 - 127

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/02/2010 16:00	441154	SW-846 3010A	1	09/10/2010 11:52	TEA	441642

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-39-3	Barium	0.73	0.010		mg/L
7440-43-9	Cadmium	ND	0.0050		mg/L
7440-70-2	Calcium	68.3	0.10		mg/L
7440-47-3	Chromium	ND	0.010		mg/L
7439-89-6	Iron	1.02	0.10		mg/L
7439-92-1	Lead	ND	0.015		mg/L
7439-95-4	Magnesium	22.0	0.10		mg/L
7439-96-5	Manganese	0.068	0.015		mg/L
7440-09-7	Potassium	2.47	0.50		mg/L
7782-49-2	Selenium	ND	0.040		mg/L
7440-23-5	Sodium	109	1.00		mg/L
7440-24-6	Strontium	0.54	0.050		mg/L
7440-66-6	Zinc	0.31	0.020		mg/L

SW-846 7010 Arsenic

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/03/2010 13:30	441205	SW-846 3020A	1	09/09/2010 11:34	CLB	441537

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-38-2	Arsenic	ND	0.010		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023308	J.GUIDRY WELL-2	Water	09/01/2010 10:55	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		582	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/08/2010 09:41	AEL	441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		139	5.0		mg/L

SM 2320B Carbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-C	Carbonate Alkalinity		ND	1.0		mg/L CaCO3

SM 2320B Bicarbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-B	Bicarbonate Alkalinity		334	1.0		mg/L CaCO3

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		1094	10		umhos/cm

EPA 375.4 Sulfate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2010 11:25	JEM	441670
CAS#	Parameter		Result	RDL	REG LIMIT	Units
14808-79-8	Sulfate		ND	5.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023308	J.GUIDRY WELL-2	Water	9/1/2010 10:55	9/2/2010 13:12

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/14/2010 11:30	441902	7470A	1	9/14/2010 14:57	CLB	441900

CAS#	Parameter	Result	RDL	MDL	Units
C-007	Mercury	ND	0.00020	0.000055	mg/L

LA1006 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/7/2010 11:00	441250	1006	1	9/14/2010 15:44	SMH	91410

CAS#	Parameter	Result	RDL	MDL	Units
GCSV-02-11	Aliphatic >C10-C12	ND	0.150	0.113	mg/L
GCSV-02-12	Aliphatic >C12-C16	ND	0.150	0.131	mg/L
GCSV-02-31	Aliphatic >C16-C35	ND	0.150	0.131	mg/L
GCSV-02-10	Aliphatic >C6-C10	ND	0.150	0.113	mg/L
GCSV-02-31	Aliphatic C6-C8	ND	0.150	0.113	mg/L
GCSV-02-15	Aromatic >C10-C12	ND	0.150	0.131	mg/L
GCSV-02-16	Aromatic >C12-C16	ND	0.150	0.131	mg/L
GCSV-02-17	Aromatic >C16-C21	ND	0.150	0.131	mg/L
GCSV-02-18	Aromatic >C21-C35	ND	0.150	0.131	mg/L
GCSV-02-14	Aromatic >C8-C10	ND	0.150	0.113	mg/L

CAS#	Surrogate	Conc.	Conc. Rec	Units	%	Rec Limits
84-15-1	o-Terphenyl	16.2	15.9	ug/L	98	60-140

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023309	J-GUIDRY WELL-3	Water	09/01/2010 11:00	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 21:14	RJU	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.042	mg/L	84	78 - 130
1868-53-7	Dibromofluoromethane	.05	.051	mg/L	102	77 - 127
2037-26-5	Toluene d8	.05	.048	mg/L	96	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.05	mg/L	101	71 - 127

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/02/2010 16:00	441154	SW-846 3010A	1	09/10/2010 11:56	TEA	441642

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-39-3	Barium	0.74	0.010		mg/L
7440-43-9	Cadmium	ND	0.0050		mg/L
7440-70-2	Calcium	70.5	0.10		mg/L
7440-47-3	Chromium	ND	0.010		mg/L
7439-89-6	Iron	1.01	0.10		mg/L
7439-92-1	Lead	ND	0.015		mg/L
7439-95-4	Magnesium	22.8	0.10		mg/L
7439-96-5	Manganese	0.068	0.015		mg/L
7440-09-7	Potassium	2.46	0.50		mg/L
7782-49-2	Selenium	ND	0.040		mg/L
7440-23-5	Sodium	109	1.00		mg/L
7440-24-6	Strontium	0.54	0.050		mg/L
7440-66-6	Zinc	0.26	0.020		mg/L

SW-846 7010 Arsenic

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/03/2010 13:30	441205	SW-846 3020A	1	09/09/2010 10:57	CLB	441537

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-38-2	Arsenic	ND	0.010		mg/L

GCAL ID 21009023309	Client ID J.GUIDRY WELL-3	Matrix Water	Collect Date/Time 09/01/2010 11:00	Receive Date/Time 09/02/2010 13:12
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SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149

CAS#	Parameter	Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)	632	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/08/2010 09:42	AEL	441489

CAS#	Parameter	Result	RDL	REG LIMIT	Units
16887-00-6	Chloride	139	5.0		mg/L

SM 2320B Carbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256

CAS#	Parameter	Result	RDL	REG LIMIT	Units
T-005-C	Carbonate Alkalinity	ND	1.0		mg/L CaCO3

SM 2320B Bicarbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256

CAS#	Parameter	Result	RDL	REG LIMIT	Units
T-005-B	Bicarbonate Alkalinity	345	1.0		mg/L CaCO3

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247

CAS#	Parameter	Result	RDL	REG LIMIT	Units
C-011	Specific Conductance	1097	10		umhos/cm

EPA 375.4 Sulfate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/10/2010 11:25	JEM	441670

CAS#	Parameter	Result	RDL	REG LIMIT	Units
14808-79-8	Sulfate	ND	5.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023309	J GUIDRY WELL-3	Water	9/1/2010 11:00	9/2/2010 13:12

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/14/2010 11:30	441902	7470A	1	9/14/2010 14:58	CLB	441900

CAS#	Parameter	Result	RDL	Units
C-007	Mercury	ND	0.00020	mg/L

LA1006 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/7/2010 11:00	441250	1006	1	9/14/2010 18:22	SMH	91410

CAS#	Parameter	Result	RDL	Units
GCSV-02-11	Aliphatic >C10-C12	ND	0.150	mg/L
GCSV-02-12	Aliphatic >C12-C16	ND	0.150	mg/L
GCSV-02-31	Aliphatic >C16-C35	ND	0.150	mg/L
GCSV-02-10	Aliphatic >C6-C10	ND	0.150	mg/L
GCSV-02-31	Aliphatic C6-C8	ND	0.150	mg/L
GCSV-02-15	Aromatic >C10-C12	ND	0.150	mg/L
GCSV-02-16	Aromatic >C12-C16	ND	0.150	mg/L
GCSV-02-17	Aromatic >C16-C21	ND	0.150	mg/L
GCSV-02-18	Aromatic >C21-C35	ND	0.150	mg/L
GCSV-02-14	Aromatic >C8-C10	ND	0.150	mg/L

CAS#	Surrogate	Conc.	Conc. Rec	Units	%	Rec Limits
84-15-1	o-Terphenyl	16.2	11.9	ug/L	73	60-140

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023310	PURVIS HEBERT WELL	Water	09/01/2010 11:45	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 21:35	RJU	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.039	mg/L	78	78 - 130
1868-53-7	Dibromofluoromethane	.05	.054	mg/L	107	77 - 127
2037-26-5	Toluene d8	.05	.059	mg/L	119	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.052	mg/L	103	71 - 127

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/02/2010 16:00	441154	SW-846 3010A	1	09/10/2010 13:12	TEA	441642

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-39-3	Barium	0.28	0.010		mg/L
7440-43-9	Cadmium	ND	0.0050		mg/L
7440-70-2	Calcium	88.6	0.10		mg/L
7440-47-3	Chromium	ND	0.010		mg/L
7439-89-6	Iron	13.5	0.10		mg/L
7439-92-1	Lead	ND	0.015		mg/L
7439-95-4	Magnesium	56.3	0.10		mg/L
7439-96-5	Manganese	2.42	0.015		mg/L
7440-09-7	Potassium	7.89	0.50		mg/L
7782-49-2	Selenium	ND	0.040		mg/L
7440-23-5	Sodium	389	1.00		mg/L
7440-24-6	Strontium	0.66	0.050		mg/L
7440-66-6	Zinc	0.035	0.020		mg/L

SW-846 7010 Arsenic

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/03/2010 13:30	441205	SW-846 3020A	1	09/09/2010 11:40	CLB	441537

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-38-2	Arsenic	ND	0.010		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023310	PURVIS HEBERT WELL	Water	09/01/2010 11:45	09/02/2010 13:12

SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/02/2010 15:30	DJH	441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		1780	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			20	09/08/2010 09:43	AEL	441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		851	20.0		mg/L

SM 2320B Carbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-C	Carbonate Alkalinity		ND	1.0		mg/L CaCO3

SM 2320B Bicarbonate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:05	DJH	441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-B	Bicarbonate Alkalinity		225	1.0		mg/L CaCO3

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/03/2010 09:50	DJH	441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		3210	10		umhos/cm

EPA 375.4 Sulfate

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			5	09/10/2010 11:27	JEM	441670
CAS#	Parameter		Result	RDL	REG LIMIT	Units
14808-79-8	Sulfate		90.0	25.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023310	PURVIS HEBERT WELL	Water	9/1/2010 11:45	9/2/2010 13:12

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/14/2010 11:30	441902	7470A	1	9/14/2010 14:49	CLB	441900

CAS#	Parameter	Result	RDL	Units
C-007	Mercury	ND	0.00020	mg/L

LA1006 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/7/2010 11:00	441250	1006	1	9/14/2010 19:24	SMH	91410

CAS#	Parameter	Result	RDL	Units
GCSV-02-11	Aliphatic >C10-C12	ND	0.150	mg/L
GCSV-02-12	Aliphatic >C12-C16	ND	0.150	mg/L
GCSV-02-31	Aliphatic >C16-C35	ND	0.150	mg/L
GCSV-02-10	Aliphatic >C6-C10	ND	0.150	mg/L
GCSV-02-31	Aliphatic C6-C8	ND	0.150	mg/L
GCSV-02-15	Aromatic >C10-C12	ND	0.150	mg/L
GCSV-02-16	Aromatic >C12-C16	ND	0.150	mg/L
GCSV-02-17	Aromatic >C16-C21	ND	0.150	mg/L
GCSV-02-18	Aromatic >C21-C35	ND	0.150	mg/L
GCSV-02-14	Aromatic >C8-C10	ND	0.150	mg/L

CAS#	Surrogate	Conc.	Conc. Rec	Units	%	Rec Limits
84-15-1	o-Terphenyl	16.0	12.4	ug/L	78	60-140

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023311	A. CROUCH WELL	Water	09/01/2010 12:50	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 22:16	RJU	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.045	mg/L	90	78 - 130
1868-53-7	Dibromofluoromethane	.05	.052	mg/L	104	77 - 127
2037-26-5	Toluene d8	.05	.051	mg/L	103	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.051	mg/L	103	71 - 127

SW-846 6010B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/02/2010 16:00	441154	SW-846 3010A	2	09/10/2010 11:47	TEA	441642

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-39-3	Barium	0.61	0.020		mg/L
7440-43-9	Cadmium	ND	0.005		mg/L
7440-70-2	Calcium	160	0.20		mg/L
7440-47-3	Chromium	ND	0.020		mg/L
7439-89-6	Iron	68.9	0.20		mg/L
7439-92-1	Lead	ND	0.015		mg/L
7439-95-4	Magnesium	94.5	0.20		mg/L
7439-96-5	Manganese	4.30	0.030		mg/L
7440-09-7	Potassium	14.5	1.00		mg/L
7782-49-2	Selenium	ND	0.040		mg/L
7440-23-5	Sodium	683	2.00		mg/L
7440-24-6	Strontium	1.38	0.10		mg/L
7440-66-6	Zinc	0.11	0.040		mg/L

SW-846 7010 Arsenic

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
09/03/2010 13:30	441205	SW-846 3020A	1	09/09/2010 12:21	CLB	441537

CAS#	Parameter	Result	RDL	REG LIMIT	Units
7440-38-2	Arsenic	ND	0.010		mg/L

GCAL ID 21009023311	Client ID A. CROUCH WELL	Matrix Water	Collect Date/Time 09/01/2010 12:50	Receive Date/Time 09/02/2010 13:12
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SM 2540C TDS

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 09/02/2010 15:30	By DJH	Analytical Batch 441149
CAS#	Parameter		Result	RDL	REG LIMIT	Units
WET-035	Total Dissolved Solids(TDS)		3240	10.0		mg/L

SM 4500 CL E Chloride

Prep Date	Prep Batch	Prep Method	Dilution 20	Analyzed 09/08/2010 09:44	By AEL	Analytical Batch 441489
CAS#	Parameter		Result	RDL	REG LIMIT	Units
16887-00-6	Chloride		1570	20.0		mg/L

SM 2320B Carbonate

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 09/03/2010 09:05	By DJH	Analytical Batch 441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-C	Carbonate Alkalinity		ND	1.0		mg/L CaCO3

SM 2320B Bicarbonate

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 09/03/2010 09:05	By DJH	Analytical Batch 441256
CAS#	Parameter		Result	RDL	REG LIMIT	Units
T-005-B	Bicarbonate Alkalinity		120	1.0		mg/L CaCO3

SM 2510 B Conductivity

Prep Date	Prep Batch	Prep Method	Dilution 1	Analyzed 09/03/2010 09:50	By DJH	Analytical Batch 441247
CAS#	Parameter		Result	RDL	REG LIMIT	Units
C-011	Specific Conductance		5530	10		umhos/cm

EPA 375.4 Sulfate

Prep Date	Prep Batch	Prep Method	Dilution 10	Analyzed 09/10/2010 11:28	By JEM	Analytical Batch 441670
CAS#	Parameter		Result	RDL	REG LIMIT	Units
14808-79-8	Sulfate		176	50.0		mg/L

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023311	A. CROUCH WELL	Water	9/1/2010 12:50	9/2/2010 13:12

SW-846 7470A

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/14/2010 11:30	441902	7470A	1	9/14/2010 15:00	CLB	441900

CAS#	Parameter	Result	RDL	Units
C-007	Mercury	ND	0.00020	mg/L

LA1006 Hydrocarbons by Range

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
9/7/2010 11:00	441250	1006	1	9/14/2010 20:23	SMH	91410

CAS#	Parameter	Result	RDL	Units
GCSV-02-11	Aliphatic >C10-C12	ND	0.150	mg/L
GCSV-02-12	Aliphatic >C12-C16	ND	0.150	mg/L
GCSV-02-31	Aliphatic >C16-C35	ND	0.150	mg/L
GCSV-02-10	Aliphatic >C6-C10	ND	0.150	mg/L
GCSV-02-31	Aliphatic C6-C8	ND	0.150	mg/L
GCSV-02-15	Aromatic >C10-C12	ND	0.150	mg/L
GCSV-02-16	Aromatic >C12-C16	ND	0.150	mg/L
GCSV-02-17	Aromatic >C16-C21	ND	0.150	mg/L
GCSV-02-18	Aromatic >C21-C35	ND	0.150	mg/L
GCSV-02-14	Aromatic >C8-C10	ND	0.150	mg/L

CAS#	Surrogate	Conc.	Conc. Rec	Units	%	Rec Limits
84-15-1	o-Terphenyl	15.8	13.3	ug/L	84	60-140

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023312	WELL 210	Water	09/01/2010 13:00	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 22:37	SLR	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.042	mg/L	83	78 - 130
1868-53-7	Dibromofluoromethane	.05	.055	mg/L	110	77 - 127
2037-26-5	Toluene d8	.05	.045	mg/L	91	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.05	mg/L	100	71 - 127

GCAL ID	Client ID	Matrix	Collect Date/Time	Receive Date/Time
21009023313	TRIP BLANK	Water	09/01/2010 00:00	09/02/2010 13:12

SW-846 8260B

Prep Date	Prep Batch	Prep Method	Dilution	Analyzed	By	Analytical Batch
			1	09/06/2010 22:57	SLR	441397

CAS#	Parameter	Result	RDL	REG LIMIT	Units
71-43-2	Benzene	ND	0.005		mg/L
100-41-4	Ethylbenzene	ND	0.005		mg/L
108-88-3	Toluene	ND	0.005		mg/L
1330-20-7	Xylene (total)	ND	0.01		mg/L

CAS#	Surrogate	Conc. Spiked	Conc. Rec	Units	% Recovery	Rec Limits
460-00-4	4-Bromofluorobenzene	.05	.05	mg/L	99	78 - 130
1868-53-7	Dibromofluoromethane	.05	.052	mg/L	104	77 - 127
2037-26-5	Toluene d8	.05	.056	mg/L	111	76 - 134
17060-07-0	1,2-Dichloroethane-d4	.05	.052	mg/L	103	71 - 127

GC/MS Volatiles Quality Control Summary

Analytical Batch Prep Batch	441368 N/A	Client ID GCAL ID	MB441368 875534	Sample Type Analytical Date	Method Blank 09/05/2010 11:20	Matrix	Water	LCS441368 875535		LCS441368 875536	
								09/05/2010 09:21	09/05/2010 10:35	Result	Limit
SW-846 8260B								% R	Control Limits % R	% R	RPD Limit
100-41-4	Ethylbenzene	ND	0.005	0.050	0.053	106	74 - 126	93	30		
1330-20-7	Xylene (total)	ND	0.01	0.150	0.167	111	74 - 127	97	30		
71-43-2	Benzene	ND	0.005	0.050	0.046	92	70 - 129	81	20		
108-88-3	Toluene	ND	0.005	0.050	0.053	105	72 - 120	91	20		
Surrogate											
460-00-4	4-Bromofluorobenzene	49.1	98	50	51.6	103	78 - 130	104			
1868-53-7	Dibromofluoromethane	50.8	102	50	50.5	101	77 - 127	101			
2037-26-5	Toluene d8	51.5	103	50	50.3	101	76 - 134	101			
17060-07-0	1,2-Dichloroethane-d4	49	98	50	48	96	71 - 127	97			

Analytical Batch Prep Batch	441397 N/A	Client ID GCAL ID	MB441397 875614	Sample Type Analytical Date	Method Blank 09/06/2010 19:06	Matrix	Water	LCS441397 875615		LCS441397 875616	
								09/06/2010 17:15	09/06/2010 18:25	Result	Limit
SW-846 8260B								% R	Control Limits % R	% R	RPD Limit
100-41-4	Ethylbenzene	ND	0.005	0.050	0.053	105	74 - 126	112	30		
1330-20-7	Xylene (total)	ND	0.01	0.150	0.143	95	74 - 127	97	30		
71-43-2	Benzene	ND	0.005	0.050	0.050	100	70 - 129	103	20		
108-88-3	Toluene	ND	0.005	0.050	0.046	93	72 - 120	100	20		
Surrogate											
460-00-4	4-Bromofluorobenzene	50.4	101	50	49	98	78 - 130	98			
1868-53-7	Dibromofluoromethane	51.3	103	50	47.8	96	77 - 127	99			
2037-26-5	Toluene d8	53.3	107	50	46.1	92	76 - 134	94			
17060-07-0	1,2-Dichloroethane-d4	49.6	99	50	47	94	71 - 127	98			

General Chromatography Quality Control Summary

Analytical Batch 091410 Prep Batch 441250 Prep Method 1006	Client ID MB441250 GCAL ID 874819 Sample Type Method Blank Prep Date Analytical 09/07/2010 11:00 Date 09/14/2010 12:36 Matrix Water	LCS441250 874820 LCS 09/07/2010 11:00 09/14/2010 14:40 Water	LCS441250 874821 LCS 09/07/2010 11:00 09/14/2010 14:40 Water							
LA1006 Hydrocarbons by Range										
	Units Result	mg/L RDL	Spike Added	Result	% R	Control Limits % R	Result	% R	RPD	RPD Limit
GCSV-02-11 Aliphatic >C10-C12	ND	0.150								
GCSV-02-12 Aliphatic >C12-C16	ND	0.150								
GCSV-02-31 Aliphatic >C16-C35	ND	0.150								
GCSV-02-10 Aliphatic >C18-C10	ND	0.150								
GCSV-02-30 Aliphatic >C6-C8	ND	0.150								
GCSV-02-15 Aromatic >C10-C12	ND	0.150								
GCSV-02-16 Aromatic >C12-C16	ND	0.150								
GCSV-02-17 Aromatic >C16-C21	ND	0.150								
GCSV-02-18 Aromatic >C21-C35	ND	0.150								
GCSV-02-14 Aromatic >C8-C10	ND	0.150	65.1	67.6	104	60-140	65.2	102	4	20
GCSV-05-04 Total TPH (C6-C35)	ND	0.150								
Surrogate										
84-15-1 o-Terphenyl	14.3	88	16.3	18.3	112	60-140	17.9	112		

Inorganics Quality Control Summary

Analytical Batch 441900 Prep Batch 441902 Prep Method 7470A	Client ID MB441902 GCAL ID 877848 Sample Type Method Blank Prep Date Analytical 09/14/2010 11:30 Date 09/14/2010 14:45 Matrix Water	LCS441902 877849 LCS 09/14/2010 11:30 09/16/2010 14:47 Water
SW-846 7470A	Units Result mg/L RDL ND 0.0002	Spike Added 0.0005
7439-97-6 Mercury	Result 0.00419	% R 84
		Control Limits % R 80-120

Analytical Batch 441900 Prep Batch 441902 Prep Method 7470A	Client ID PURVIS HEBERT WELL GCAL ID 21009023310 Sample Type SAMPLE Prep Date Analytical 09/14/2010 11:30 Date 09/14/2010 14:49 Matrix Water	MS877851 MS 09/14/2010 11:30 09/16/2010 14:52 Water
SW-846 7470A	Units Result mg/L RDL 0.00000 0.0002	Spike Added 0.0005
7439-97-6 Mercury	Result 0.00412	% R 82
		Control Limits % R 80-120

Inorganics Quality Control Summary

Analytical Batch	Client ID	MB441154	LCS441154
Prep Batch 441154 Prep Method SW-846 3010A	GCAL ID Sample Type Prep Date Analytical Date Matrix	874436 Method Blank 09/02/2010 16:00 09/09/2010 13:44 Water	874437 LCS 09/02/2010 16:00 09/09/2010 13:50 Water
SW-846 6010B			
	Units	mg/L	Control
	Result	RDL	Limits % R
		Added	% R
			Result
			% R
			Limit
7440-39-3	Barium	0.50	100
7440-43-9	Cadmium	0.50	100
7440-70-2	Calcium	5.00	100
7440-47-3	Chromium	0.50	101
7439-89-6	Iron	5.00	100
7439-92-1	Lead	0.50	101
7439-95-4	Magnesium	5.00	101
7439-96-5	Manganese	0.50	99
7440-09-7	Potassium	10.0	101
7782-49-2	Selenium	0.50	101
7440-23-5	Sodium	20.0	100
7440-24-6	Strontium	0.50	101
7440-66-6	Zinc	0.50	99

Analytical Batch	Client ID	T6LF28904	874395MSD
Prep Batch 441154 Prep Method SW-846 3010A	GCAL ID Sample Type Prep Date Analytical Date Matrix	2'100902'304 SAMPLE 09/02/2010 16:00 09/10/2010 07:59 Water	874489 MS 09/02/2010 16:00 09/10/2010 08:11 Water
SW-846 6010B			
	Units	mg/L	Control
	Result	RDL	Limits % R
		Added	% R
			Result
			% R
			Limit
7440-39-3	Barium	0.50	95
7440-43-9	Cadmium	0.50	93
7440-70-2	Calcium	5.00	32*
7440-47-3	Chromium	0.50	91
7439-89-6	Iron	5.00	98
7439-92-1	Lead	0.50	94
7439-95-4	Magnesium	5.00	80
7439-96-5	Manganese	0.50	94
7440-09-7	Potassium	10.0	98

Inorganics Quality Control Summary

Analytical Batch Prep Batch 441154 Prep Method SW-846 3010A	Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	T6LF28904 21009021304 SAMPLE 09/02/2010 16:00 09/10/2010 07:59 Water	874395MS		874395MSD					
			874489 MS 09/02/2010 16:00 09/10/2010 08:06 Water	874490 MSD 09/02/2010 16:00 09/10/2010 08:11 Water	Result	RPD	Result	RPD		
SW-846 6010B		Units Result	ng/L RDL	Spike Added	% R	Control Limits % R	% R	Result	RPD	Limit
7782-49-2	Selenium	0.0	0.040	0.50	95	75 - 125	99	0.49	2	20
7440-23-5	Sodium	149	1.00	20.0	80	75 - 125	83	166	0.6	20
7440-24-6	Strontium	1.09	0.050	0.50	90	75 - 125	91	1.54	0	20
7440-66-6	Zinc	0.021	0.020	0.50	94	75 - 125	94	0.49	0	20

Inorganics Quality Control Summary

Analytical Batch 441537 Prep Batch 441205 Prep Method SW-846 3020A	Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	MB441205 874597 Method Blank 09/03/2010 13:30 09/09/2010 10:45 Water	LCS441205 874598 LCS 09/03/2010 13:30 09/09/2010 10:51 Water	Control Limits % R
SW-846 7010 Arsenic	Units Result	mg/L RDL	Result	% R
7440-38-2 Arsenic	ND	0.010	0.039	98
			Spike Added	Control Limits % R
			0.040	80 - 120

Analytical Batch 441537 Prep Batch 441205 Prep Method SW-846 3020A	Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	J GUIDRY WELL-3 21009023309 SAMPLE 09/03/2010 13:30 09/09/2010 10:57 Water	874540MS 874600 MS 09/03/2010 13:30 09/09/2010 11:10 Water	Control Limits % R
SW-846 7010 Arsenic	Units Result	mg/L RDL	Result	% R
7440-38-2 Arsenic	0.0	0.010	0.046	115
			Spike Added	Control Limits % R
			0.040	75 - 125

Analytical Batch 441537 Prep Batch 441205 Prep Method SW-846 3020A	Client ID GCAL ID Sample Type Prep Date Analytical Date Matrix	J GUIDRY WELL-3 21009023309 SAMPLE 09/03/2010 13:30 09/09/2010 10:57 Water	874540DUP 874599 DUP 09/03/2010 13:30 09/09/2010 11:03 Water	RPD Limit
SW-846 7010 Arsenic	Units Result	mg/L RDL	Result	RPD Limit
7440-38-2 Arsenic	0.0	0.010	0.0	0
			Spike Added	RPD Limit
			0.040	20

General Chemistry Quality Control Summary

Analytical Batch 441149 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB441149 874405 Method Blank 09/02/2010 15:30 Water	LCS441149 874406 LCS 09/02/2010 15:30 Water
SM 2540C TDS			
WET-035	Total Dissolved Solids(TDS)	Units Result	mg/L RDL
		ND	10.0
		Spike Added	1000
		Result	972
		% R	97.2
		Control Limits % R	80 - 120

Analytical Batch 441149 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	TK-470 21009011401 SAMPLE 09/02/2010 15:30 Water	873966DUP 874407 DUP 09/02/2010 15:30 Water
SM 2540C TDS			
WET-035	Total Dissolved Solids(TDS)	Units Result	mg/L RDL
		178	10.0
		Result	182
		RPD Limit	2.2
			5

General Chemistry Quality Control Summary

Analytical Batch Prep Batch	441489 N/A	Client ID GCAL ID	MB441489 876148	LCS441489 876149 LCS		
		Sample Type Analytical Date	Method Blank 09/08/2010 09:26	09/08/2010 09:27		
		Matrix	Water	Water		
SM 4500 CL E Chloride		Units Result	mg/L RDL	Spike Added	Result	Control Limits % R
16887-00-6	Chloride	ND	1.0	60.0	58.5	98 - 120

Analytical Batch Prep Batch	441489 N/A	Client ID GCAL ID	343763 NN5 21008313412	343763 NN5 LAB SPIKE 21008313414		
		Sample Type Analytical Date	SAMPLE 09/08/2010 09:28	MS 09/08/2010 09:30		
		Matrix	Water	Water		
SM 4500 CL E Chloride		Units Result	mg/L RDL	Spike Added	Result	Control Limits % R
16887-00-6	Chloride	13.0	1.0	60.0	72.4	99 - 125

Analytical Batch Prep Batch	441489 N/A	Client ID GCAL ID	343702 MW 1 21009073401	343702 MW 1 LAB SPK 21009073403		
		Sample Type Analytical Date	SAMPLE 09/08/2010 09:44	MS 09/08/2010 09:48		
		Matrix	Water	Water		
SM 4500 CL E Chloride		Units Result	mg/L RDL	Spike Added	Result	Control Limits % R
16887-00-6	Chloride	570	20.0	1200	1670	92 - 125

Analytical Batch Prep Batch	441489 N/A	Client ID GCAL ID	343763 NN5 21008313412	343763 NN5 LAB DUP 21008313413		
		Sample Type Analytical Date	SAMPLE 09/08/2010 09:28	DUP 09/08/2010 09:29		
		Matrix	Water	Water		
SM 4500 CL E Chloride		Units Result	mg/L RDL	Result	RPD Limit	RPD Limit
16887-00-6	Chloride	13.0	1.0	13.1	0.8	25

GCAL Report 210090233

General Chemistry Quality Control Summary

Analytical Batch 441489 Prep Batch N/A	Client ID 343702 MW 1 GCAL ID 21009073401 Sample Type SAMPLE Analytical Date 09/08/2010 09:44 Matrix Water	343702 MW 1 LAB DUPL 21009073402 DUP 09/08/2010 09:45 Water	RPD Limit	25
SM 4500 CL E Chloride	Units Result	Result	RPD	25
16887-00-6 Chloride	570	573	0.5	25
	mg/L RDL			
	20.0			

GCAL Report 210090233

General Chemistry Quality Control Summary

Analytical Batch 441256 Prep Batch N/A	Client ID J GUIDRY WELL-1 GCAL ID 21009023307 Sample Type SAMPLE Analytical Date 09/03/2010 09:05 Matrix Water	874538DUP 874839 DUP 09/03/2010 09:05 Water	
SM 2320B Carbonate	Units Result	mg/L CaCO3 RDL Result	RPD Limit
T-005-B Bicarbonate Alkalinity	340	1.0	11
T-005-C Carbonate Alkalinity	0.00	1.0	0
		341	11
		0.00	11

General Chemistry Quality Control Summary

Analytical Batch 441247 Prep Batch N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	J GUIDRY WELL AT 400 GAL 21009023301 SAMPLE 09/03/2010 09:50 Water	874529DUP 874815 DUP 09/03/2010 09:50 Water
SM 2510 B Conductivity	Units Result	umhos/cm RDL	RPD Limit
C-011 Specific Conductance	1116	10	0.2 10
		Result	1114

General Chemistry Quality Control Summary

Analytical Batch Prep Batch	441670 N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	MB441670 876993 Method Blank 09/10/2010 11:21 Water	mg/L RDL	5.0	Spike Added	20.0	Result	21.2	% R	106	Control Limits % R	80 - 120
EPA 375.4 Sulfate													
14808-79-8	Sulfate												

Analytical Batch Prep Batch	441670 N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	J GUIDRY WELL-1 21009023307 SAMPLE 09/10/2010 11:23 Water	mg/L RDL	5.0	Spike Added	20.0	Result	20.5	% R	102	Control Limits % R	75 - 125
EPA 375.4 Sulfate													
14808-79-8	Sulfate												

Analytical Batch Prep Batch	441670 N/A	Client ID GCAL ID Sample Type Analytical Date Matrix	J GUIDRY WELL-1 21009023307 SAMPLE 09/10/2010 11:23 Water	mg/L RDL	5.0	Spike Added	20.0	Result	0.00	RPD Limit	0	25	
EPA 375.4 Sulfate													
14808-79-8	Sulfate												



GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225-769-4900 • Fax 225-767-5717

CHAIN OF CUSTODY RECORD

Lab use only

Client Name

P.S.A.N.

Client #

Workorder #

Due Date

Report to:

Client: MP&A
Address: 1100 Paydreas
Sumite 1430
Contact: J. Muller
Phone: 504-582-2468
Fax:

Bill to:

Client: _____
Address: _____
Contact: GMW
Phone: _____
Fax: _____

P.O. Number

Project Name/Number
07-47 East White Lake - VP SB

Sampled By:

Jonathan Miller / Patrick Ritchie

Matrix	Date	Time (2400)	C o m p	G a b	Sample Description	Preservatives	No Con-tainers
W	9/1/00	0935	X		J Gundry Well #1 400 gal	Var	1
		1000			J Gundry Well #2 500 gal		1
		1050			J Gundry Well #1 800 gal		8
		1055			J Gundry Well #2		8
		1100			J Gundry Well #3		8
		1125			Purvis Herbert well #1 5 gal		1
		1135			Purvis Herbert well #2 25 gal		1
		1145			Purvis Herbert well		8
		1220			A. Crouch well #1 gal		1
					A. Crouch well #2 8 gal		8
		1250			A. Crouch well		1
		1255			A. Crouch SW		6
		1300			Well #10		6

Turn Around Time: 24-48 hrs. 3 days 1 week Standard Other

Received by: (Signature)

Received by: (Signature)

Date: 9/1/00

Note:

Analytical Requests & Method

Request	Method
Asbestos by AA	Asbestos by AA
Models * Baga M.K. 150	Models * Baga M.K. 150
Iron manganos & Sr	Iron manganos & Sr
BTX	BTX
TPT Fractions (GPO)	TPT Fractions (GPO)
CAK / BAK / sulfate	CAK / BAK / sulfate

Lab use only:

Custody Seal

used yes no

intact yes no

Temperature °C

3.8 °C

Remarks:

Lab ID

	1
	2
	7
	8
	9
	3
	4
	6
	5
	1
	6
	12

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

Matrix W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag
We cannot accept verbal changes. Please fax written changes to (225) 767-5717



GULF COAST ANALYTICAL LABORATORIES, INC.
7979 GSRI Avenue, Baton Rouge, Louisiana 70820-7402
Phone 225.769.4900 • Fax 225.767.5717

CHAIN OF CUSTODY RECORD

Lab use only P. Sent 4771 219050233 5.14.10
 Client Name Client # Workorder # Due Date

Report to:
 Client: MDPA
 Address: 1100 Paydras St 1430
NDLA
 Contact: J. Q. Miller
 Phone: 504-582-2468
 Fax:

Bill to:
 Client: SAH
 Address: SAH
 Contact: SAH
 Phone:
 Fax:

P.O. Number 07-47 Project Name/Number 07-47
E. White Lake
 Sampled By: J. Q. Miller

Analytical Requests & Method

TPH (T) Fac Heu loc
FPH BTEX
X
X

Lab use only:
 Custody Seal
 used yes no
 intact yes no
 Temperature °C 3.8°C

Matrix	Date	Time (2400)	g o m p	g t a b	Sample Description	Preservatives	No Containers	Remarks	Lab ID
<u>W</u>	<u>9/1/10</u>			<u>X</u>	<u>Trip Blank</u>	<u>ALL</u>	<u>3</u>		<u>/</u>

Turn Around Time: 24-48 hrs. 3 days 1 week Standard Other

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date: 9/1/10 Time: 1710

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date: 9/2/10 Time: 1238

Relinquished by: (Signature) _____ Received by: (Signature) _____ Date: 9-2-10 Time: 1:12

Matrix: W = water, S = soil, SD = solid, L = liquid, SL = sludge, o = oil, CT = charcoal tube, A = air bag

By submitting these samples, you agree to the terms and conditions contained in our most recent schedule of services.

We cannot accept verbal changes. Please fax written changes to (225) 767-5717

PRESERVATION CHECKLIST / COOLER RECEIPT

Gulf Coast Analytical Laboratories, Inc.

WO: 210090233
Desc:
Work ID: East White Lake 07-47
Project Seq: 108610
Client: 4271 - Michael Pisani & Associates
Profile: 174115 - East White - East White Lake 07-47

Type: M
Report: REVIEW_RPT
Status: WP
Created: 9/2/2010 14:07
QA:
PO: 07-47

WORKORDER SAMPLES

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023301-1	OC	NONE			X			X	OK
21009023302-1	OC	NONE			X			X	OK
21009023303-1	OC	NONE			X			X	OK
21009023304-1	OC	NONE			X			X	OK
21009023305-1	OC	NONE			X			X	OK
21009023306-1	OC	NONE			X			X	OK
21009023307-1	LP	NONE			X			X	OK
21009023307-2	OC	HNO3						X	OK
21009023307-3	40	HCL			/				OK
21009023307-4	40	HCL			/				OK
21009023307-5	40	HCL			/				OK
21009023307-6	40	HCL			/				OK
21009023307-7	40	HCL			/				OK
21009023307-8	40	HCL			/				OK

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023308-1	LP	NONE			X			X	OK
21009023308-2	OC	HNO3	✓					X	OK
21009023308-3	40	HCL			✓	✓			OK
21009023308-4	40	HCL			✓	✓			OK
21009023308-5	40	HCL			✓	✓			OK
21009023308-6	40	HCL			✓	✓			OK
21009023308-7	40	HCL			✓	✓			OK
21009023308-8	40	HCL			✓	✓			OK

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023309-1	LP	NONE			X			X	OK
21009023309-2	OC	HNO3	✓					X	OK
21009023309-3	40	HCL			✓	✓			OK
21009023309-4	40	HCL			✓	✓			OK
21009023309-5	40	HCL			✓	✓			OK
21009023309-6	40	HCL			✓	✓			OK
21009023309-7	40	HCL			✓	✓			OK
21009023309-8	40	HCL			✓	✓			OK

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023310-1	LP	NONE			X			X	OK
21009023310-2	OC	HNO3	✓					X	OK
21009023310-3	40	HCL			✓	✓			OK
21009023310-4	40	HCL			✓	✓			OK
21009023310-5	40	HCL			✓	✓			OK
21009023310-6	40	HCL			✓	✓			OK
21009023310-7	40	HCL			✓	✓			OK
21009023310-8	40	HCL			✓	✓			OK

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023311-1	LP	NONE			X			X	OK
21009023311-2	OC	HNO3	✓					X	OK
21009023311-3	40	HCL			✓	✓			OK
21009023311-4	40	HCL			✓	✓			OK
21009023311-5	40	HCL			✓	✓			OK
21009023311-6	40	HCL			✓	✓			OK
21009023311-7	40	HCL			✓	✓			OK
21009023311-8	40	HCL			✓	✓			OK

pH PRESERVATIVE VOA HEADSPACE

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023312-1	40	HCL			-	-			OK
21009023312-2	40	HCL			-	-			OK
21009023312-3	40	HCL			-	-			OK
21009023312-4	40	HCL			-	-			OK
21009023312-5	40	HCL			-	-			OK
21009023312-6	40	HCL			-	-			OK

Container ID	Type	Preservative	pH PRESERVATIVE			VOA HEADSPACE			CONTAINER CONDITION
			A	U	N/A	A	U	N/A	
21009023313-1	40	HCL			-	-			OK
21009023313-2	40	HCL			-	-			OK
21009023313-3	40	HCL			-	-			OK

A = ACCEPTABLE
 U = UNACCEPTABLE
 N/A = NOT APPLICABLE

COOLER (S) TEMPERATURE *A* U
 MAXIMUM VOLATILE HEADSPACE BUBBLE 6MM

LIMIT = 4C + \ - 2C

Custody Seal
 used Yes No
 in tact Yes No

LABEL(S)
 VERIFIED _____

CUSTODIAN *[Signature]*