



December 12, 2008

Mark Norman
Geo-Marine, Inc.
950 Isom Rd
San Antonio, Texas 78216-4170

Order No: 0812094

TEL: (210) 930-3007
FAX: (210) 930-3777

RE: Swift - San Antonio, TX

Dear Mark Norman:

DHL Analytical received 4 sample(s) on 12/10/2008 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

A handwritten signature in black ink that reads "John DuPont". The signature is written in a cursive style.

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-08A-TX



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2300 Double Creek Drive • Round Rock, TX 78664
 Phone (512) 388-8222 • FAX (512) 388-8229

No 38944
CHAIN-OF-CUSTODY

CLIENT: Geo-Marine
 ADDRESS: 9505 San Rd San Antonio
 PHONE: (210) 861-2814 FAX _____
 DATA REPORTED TO: Mark Norman
 ADDITIONAL REPORT COPIES TO: _____

DATE: 12/10/08 PAGE 1 OF 1
 PO #: _____ DHL WORK ORDER #: 0812094
 PROJECT LOCATION OR NAME: Swift - San Antonio, TX
 CLIENT PROJECT #: 30-590.00.02 COLLECTOR: J. Wick

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION				ANALYSES	FIELD NOTES	
							HCl	HNO ₃	H ₂ SO ₄ / NaOH	ICE			UNPRESERVED
Coal Ash 7	01	12/10/08	1320	Soil	glass	1					X		
BE-2, 0-0.5'	02	↓	1335	↓	40L	1					X		
BE-1, 0-0.5'	03	↓	1345	↓	↓	1					X		
BE-3, 0-0.5'	04	↓	14:10	soil	glass	1					X		

- ANALYSES**
- BTEX (M, P, E, O)
 - TPH 418-1
 - GASOLINE MOD 1008
 - TPH 1008
 - DIESEL MOD 8015
 - VOC 8280
 - SVOC 8270
 - PAH 8270
 - PESTICIDES 8151
 - PCBs
 - TOLP METALS (PCPA)
 - HOLDPAH
 - TOTAL METALS (PCPA)
 - HERB
 - SPM-VOC
 - LEAD TOTAL
 - TOX
 - DW 200.8
 - TSS
 - FLASH POINT
 - HEXAVALENT CHROMIUM
 - EXPLOSIVES
 - MOISTURE
 - CYANIDE
 - CHLORIDE
 - RECALORIMETER
 - ANIONS
 - ALKALINITY

TOTAL		TURN AROUND TIME		LABORATORY USE ONLY:	
RELINQUISHED BY: (Signature) <u>David Furr</u>	DATE/TIME <u>12/10/08</u>	RECEIVED BY: (Signature) <u>Althameck</u>	RUSH <input checked="" type="checkbox"/> CALL FIRST	RECEIVING TEMP: <u>1.0°</u>	THERM #: <u>57</u>
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	1 DAY <input type="checkbox"/> CALL FIRST	CUSTODY SEALS - <input type="checkbox"/> BROKEN <input type="checkbox"/> INTACT <input checked="" type="checkbox"/> NOT USED	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	2 DAY <input type="checkbox"/>	<input type="checkbox"/> CARRIER BILL # _____	
			NORMAL <input type="checkbox"/>	<input type="checkbox"/> APC DELIVERY	
			OTHER <input type="checkbox"/>	<input type="checkbox"/> HAND DELIVERED	

DHL DISPOSAL @ \$5.00 each Return

Sample Receipt Checklist

Client Name Geo-Marine, Inc.
Work Order Number 0812094

Date Received: 12/10/2008
Received by AK

Checklist completed by [Signature] 12/10/08
Signature Date

Reviewed by [Initials] 12/10/08
Initials Date

Carrier name: Hand Delivered

- Shipping container/cooler in good condition? Yes No Not Present
- Custody seals intact on shipping container/cooler? Yes No Not Present
- Custody seals intact on sample bottles? Yes No Not Present
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Sample containers intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- All samples received within holding time? Yes No
- Container/Temp Blank temperature in compliance? Yes No
- Water - VOA vials have zero headspace? Yes No No VOA vials submitted
- Water - pH acceptable upon receipt? Yes No Not Applicable

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Laboratory Data Package Signature Page

This data package consists of:

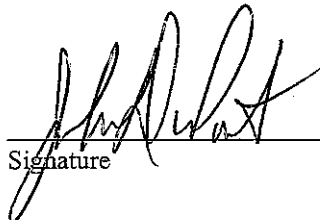
This signature page, the laboratory review checklist, and the following reportable data:

- R1 Field chain-of-custody documentation;
 - R2 Sample identification cross-reference;
 - R3 Test reports (analytical data sheets) for each environmental sample that includes:
 - a) Items consistent with NELAC 5.13
 - b) dilution factors,
 - c) preparation methods,
 - d) cleanup methods, and
 - e) if required for the project, tentatively identified compounds (TICs).
 - R4 Surrogate recovery data including:
 - a) Calculated recovery (%R), and
 - b) The laboratory's surrogate QC limits.
 - R5 Test reports/summary forms for blank samples;
 - R6 Test reports/summary forms for laboratory control samples (LCSs) including:
 - a) LCS spiking amounts,
 - b) Calculated %R for each analyte, and
 - c) The laboratory's LCS QC limits.
 - R7 Test reports for project matrix spike/matrix spike duplicates (MS/MSDs) including:
 - a) Samples associated with the MS/MSD clearly identified,
 - b) MS/MSD spiking amounts,
 - c) Concentration of each MS/MSD analyte measured in the parent and spiked samples,
 - d) Calculated %Rs and relative percent differences (RPDs), and
 - e) The laboratory's MS/MSD QC limits
 - R8 Laboratory analytical duplicate (if applicable) recovery and precision:
 - a) the amount of analyte measured in the duplicate,
 - b) the calculated RPD, and
 - c) the laboratory's QC limits for analytical duplicates.
 - R9 List of method quantitation limits (MQLs) for each analyte for each method and matrix;
 - R10 Other problems or anomalies.
- The Exception Report for every "No" or "Not Reviewed (NR)" item in laboratory review checklist.

Release Statement: I am responsible for the release of this laboratory data package. This data package has been reviewed by the laboratory and is complete and technically compliant with the requirements of the methods used, except where noted by the laboratory in the attached exception reports. By my signature below, I affirm to the best of my knowledge, all problems/anomalies, observed by the laboratory as having the potential to affect the quality of the data, have been identified by the laboratory in the Laboratory Review Checklist, and no information or data have been knowingly withheld that would affect the quality of the data.

Scott Schroeder – Project Manager
John DuPont – General / QA Manager

Signature



Date

12/12/08

DHL Analytical, Inc.

Laboratory Review Checklist: Reportable Data

Project Name: Swift - San Antonio, TX		Date: 12/12/2008					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0812094					
Prep Batch Number(s): See Prep Dates Report		Run Batch: See Analytical Dates Report					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
R1	OI	Chain-of-Custody (C-O-C)					
		1) Did samples meet the laboratory's standard conditions of sample acceptability upon receipt?	X				R1-01
		2) Were all departures from standard conditions described in an exception report?			X		
R2	OI	Sample and Quality Control (QC) Identification					
		1) Are all field sample ID numbers cross-referenced to the laboratory ID numbers?	X				
		2) Are all laboratory ID numbers cross-referenced to the corresponding QC data?	X				
R3	OI	Test Reports					
		1) Were all samples prepared and analyzed within holding times?	X				
		2) Other than those results < MQL, were all other raw values bracketed by calibration standards?	X				
		3) Were calculations checked by a peer or supervisor?	X				
		4) Were all analyte identifications checked by a peer or supervisor?	X				
		5) Were sample quantitation limits reported for all analytes not detected?	X				
		6) Were all results for soil and sediment samples reported on a dry weight basis?	X				
		7) Were % moisture (or solids) reported for all soil and sediment samples?	X				
		8) If required for the project, TICs reported?				X	
R4	O	Surrogate Recovery Data					
		1) Were surrogates added prior to extraction?			X		
		2) Were surrogate percent recoveries in all samples within the laboratory QC limits?			X		
R5	OI	Test Reports/Summary Forms for Blank Samples					
		1) Were appropriate type(s) of blanks analyzed?	X				
		2) Were blanks analyzed at the appropriate frequency?	X				
		3) Were method blanks taken through the entire analytical process, including preparation and, if applicable, cleanup procedures?	X				
		4) Were blank concentrations < MQL?	X				
R6	OI	Laboratory Control Samples (LCS):					
		1) Were all COCs included in the LCS?	X				
		2) Was each LCS taken through the entire analytical procedure, including prep and cleanup steps?	X				
		3) Were LCSs analyzed at the required frequency?	X				
		4) Were LCS (and LCSD, if applicable) %Rs within the laboratory QC limits?	X				
		5) Does the detectability data document the laboratory's capability to detect the COCs at the MDL used to calculate the SQLs?	X				
		6) Was the LCSD RPD within QC limits (if applicable)?	X				
R7	OI	Matrix Spike (MS) and Matrix Spike Duplicate (MSD) Data					
		1) Were the project/method specified analytes included in the MS and MSD?	X				
		2) Were MS/MSD analyzed at the appropriate frequency?	X				
		3) Were MS (and MSD, if applicable) %Rs within the laboratory QC limits?		X			R7-03
		4) Were MS/MSD RPDs within laboratory QC limits?	X				
R8	OI	Analytical Duplicate Data					
		1) Were appropriate analytical duplicates analyzed for each matrix?	X				
		2) Were analytical duplicates analyzed at the appropriate frequency?	X				
		3) Were RPDs or relative standard deviations within the laboratory QC limits?	X				
R9	OI	Method Quantitation Limits (MQLs):					
		1) Are the MQLs for each method analyte included in the laboratory data package?	X				
		2) Do the MQLs correspond to the concentration of the lowest non-zero calibration standard?	X				
		3) Are unadjusted MQLs included in the laboratory data package?	X				
R10	OI	Other Problems/Anomalies					
		1) Are all known problems/anomalies/special conditions noted in this LRC and ER?	X				
		2) Were all necessary corrective actions performed for the reported data?	X				
		3) Was applicable and available technology used to lower the SQL minimize the matrix interference affects on the sample results?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

DHL Analytical, Inc.

Laboratory Review Checklist (continued): Supporting Data

Project Name: Swift - San Antonio, TX		Date: 12/12/2008					
Reviewer Name: Evelyn Ferrero		Laboratory Work Order: 0812094					
# ¹	A ²	Description	Yes	No	NA ³	NR ⁴	ER# ⁵
S1	OI	Initial Calibration (ICAL)					
		1) Were response factors and/or relative response factors for each analyte within QC limits?	X				
		2) Were percent RSDs or correlation coefficient criteria met?	X				
		3) Was the number of standards recommended in the method used for all analytes?	X				
		4) Were all points generated between the lowest and highest standard used to calculate the curve?	X				
		5) Are ICAL data available for all instruments used?	X				
		6) Has the initial calibration curve been verified using an appropriate second source standard?	X				
S2	OI	Initial and Continuing calibration Verification (ICCV and CCV) and Continuing Calibration blank (CCB):					
		1) Was the CCV analyzed at the method-required frequency?	X				
		2) Were percent differences for each analyte within the method-required QC limits?	X				
		3) Was the ICAL curve verified for each analyte?	X				
		4) Was the absolute value of the analyte concentration in the inorganic CCB < MDL?	X				
S3	O	Mass Spectral Tuning:					
		1) Was the appropriate compound for the method used for tuning?	X				
		2) Were ion abundance data within the method-required QC limits?	X				
S4	O	Internal Standards (IS):					
		1) Were IS area counts and retention times within the method-required QC limits?	X				
S5	OI	Raw Data (NELAC section 1 appendix A glossary, and section 5.12)					
		1) Were the raw data (for example, chromatograms, spectral data) reviewed by an analyst?	X				
		2) Were data associated with manual integrations flagged on the raw data?			X		
S6	O	Dual Column Confirmation					
		1) Did dual column confirmation results meet the method-required QC?			X		
S7	O	Tentatively Identified Compounds (TICs):					
		1) If TICs were requested, were the mass spectra and TIC data subject to appropriate checks?			X		
S8	I	Interference Check Sample (ICS) Results:					
		1) Were percent recoveries within method QC limits?	X				
S9	I	Serial Dilutions, Post Digestion Spikes, and Method of Standard Additions					
		1) Were percent differences, recoveries, and the linearity within the QC limits specified in the method?	X				
S10	OI	Method Detection Limit (MDL) Studies					
		1) Was a MDL study performed for each reported analyte?	X				
		2) Is the MDL either adjusted or supported by the analysis of DCSs?	X				
S11	OI	Proficiency Test Reports:					
		1) Was the lab's performance acceptable on the applicable proficiency tests or evaluation studies?	X				
S12	OI	Standards Documentation					
		1) Are all standards used in the analyses NIST-traceable or obtained from other appropriate sources?	X				
S13	OI	Compound/Analyte Identification Procedures					
		1) Are the procedures for compound/analyte identification documented?	X				
S14	OI	Demonstration of Analyst Competency (DOC)					
		1) Was DOC conducted consistent with NELAC Chapter 5C?	X				
		2) Is documentation of the analyst's competency up-to-date and on file?	X				
S15	OI	Verification/Validation Documentation for Methods (NELAC Chap 5)					
		1) Are all the methods used to generate the data documented, verified, and validated, where applicable?	X				
S16	OI	Laboratory Standard Operating Procedures (SOPs):					
		1) Are laboratory SOPs current and on file for each method performed?	X				

- 1 Items identified by the letter "R" should be included in the laboratory data package submitted to the TCEQ in the TRRP-required report(s). Items identified by the letter "S" should be retained and made available upon request for the appropriate retention period.
- 2 O = organic analyses; I = inorganic analyses (and general chemistry, when applicable).
- 3 NA = Not applicable.
- 4 NR = Not Reviewed.
- 5 ER# = Exception Report identification number (an Exception Report should be completed for an item if "NR" or "No" is checked).

CLIENT: Geo-Marine, Inc.
Project: Swift - San Antonio, TX
Lab Order: 0812094

CASE NARRATIVE

The samples were analyzed using the methods outlined in the following references:

- Method SW6020 - Trace Metals: ICP-MS - Solid
- Method D2216 - Percent Moisture (Parameter not NELAC Certified)

Exception Report R1-01

A total of 4 samples were received and logged-in on 12/10/2008. The samples arrived in good condition and were properly packaged.

Exception Report R7-03

For Trace Metals Analysis, the recovery of the Matrix Spike (0812078-07 MS) was below the control limit for Beryllium. This was flagged accordingly in the enclosed QC Summary Report. The LCS-32650 was within control limits for this analyte. The reference sample selected for the MS/MSD was not from this work order. No further corrective actions were taken.

CLIENT: Geo-Marine, Inc.
Project: Swift - San Antonio, TX
Lab Order: 0812094

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0812094-01	Coal Ash 7		12/10/08 01:20 PM	12/10/08
0812094-02	BE-2, 0-0.5'		12/10/08 01:35 PM	12/10/08
0812094-03	BE-1, 0-0.5'		12/10/08 01:45 PM	12/10/08
0812094-04	BE-3, 0-0.5'		12/10/08 02:10 PM	12/10/08

CLIENT: Geo-Marine, Inc.
 Project: Swift - San Antonio, TX
 Lab Order: 0812094

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0812094-01A	Coal Ash 7	12/10/08 01:20 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	12/11/08 09:00 AM	32650
	Coal Ash 7	12/10/08 01:20 PM	Soil	D2216	Percent Moisture	12/11/08 10:00 AM	PMOIST_081211A
0812094-02A	BE-2, 0-0.5'	12/10/08 01:35 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	12/11/08 09:00 AM	32650
	BE-2, 0-0.5'	12/10/08 01:35 PM	Soil	D2216	Percent Moisture	12/11/08 10:00 AM	PMOIST_081211A
0812094-03A	BE-1, 0-0.5'	12/10/08 01:45 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	12/11/08 09:00 AM	32650
	BE-1, 0-0.5'	12/10/08 01:45 PM	Soil	D2216	Percent Moisture	12/11/08 10:00 AM	PMOIST_081211A
0812094-04A	BE-3, 0-0.5'	12/10/08 02:10 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	12/11/08 09:00 AM	32650
	BE-3, 0-0.5'	12/10/08 02:10 PM	Soil	D2216	Percent Moisture	12/11/08 10:00 AM	PMOIST_081211A

CLIENT: Geo-Marine, Inc.
 Project: Swift - San Antonio, TX
 Lab Order: 0812094

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0812094-01A	Coal Ash 7	Soil	D2216	Percent Moisture	PMOIST_081211A	1	12/11/08 02:40 PM	PMOIST_081211A
	Coal Ash 7	Soil	SW6020	Trace Metals: ICP-MS - Solid	32650	5	12/11/08 05:02 PM	ICP-MS3_081211A
0812094-02A	BE-2, 0-0.5'	Soil	D2216	Percent Moisture	PMOIST_081211A	1	12/11/08 02:40 PM	PMOIST_081211A
	BE-2, 0-0.5'	Soil	SW6020	Trace Metals: ICP-MS - Solid	32650	5	12/11/08 04:57 PM	ICP-MS3_081211A
0812094-03A	BE-1, 0-0.5'	Soil	D2216	Percent Moisture	PMOIST_081211A	1	12/11/08 02:40 PM	PMOIST_081211A
	BE-1, 0-0.5'	Soil	SW6020	Trace Metals: ICP-MS - Solid	32650	5	12/11/08 03:28 PM	ICP-MS3_081211A
0812094-04A	BE-3, 0-0.5'	Soil	D2216	Percent Moisture	PMOIST_081211A	1	12/11/08 02:40 PM	PMOIST_081211A
	BE-3, 0-0.5'	Soil	SW6020	Trace Metals: ICP-MS - Solid	32650	5	12/11/08 03:23 PM	ICP-MS3_081211A

DHL Analytical

Date: 12/12/08

CLIENT:	Geo-Marine, Inc.	Client Sample ID:	Coal Ash 7
Project:	Swift - San Antonio, TX	Lab ID:	0812094-01
Project No:	30.590.00.02	Collection Date:	12/10/08 01:20 PM
Lab Order:	0812094	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020					Analyst: AJR
Beryllium	3.85	0.0275	0.0880		mg/Kg-dry	5	12/11/08 05:02 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	13.4	0	0	N	WT%	1	12/11/08 02:40 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 12/12/08

CLIENT:	Geo-Marine, Inc.	Client Sample ID:	BE-2, 0-0.5'
Project:	Swift - San Antonio, TX	Lab ID:	0812094-02
Project No:	30.590.00.02	Collection Date:	12/10/08 01:35 PM
Lab Order:	0812094	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020					Analyst: AJR
Beryllium	0.799	0.0263	0.0843		mg/Kg-dry	5	12/11/08 04:57 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	6.97	0	0	N	WT%	1	12/11/08 02:40 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 12/12/08

CLIENT:	Geo-Marine, Inc.	Client Sample ID:	BE-1, 0-0.5'
Project:	Swift - San Antonio, TX	Lab ID:	0812094-03
Project No:	30.590.00.02	Collection Date:	12/10/08 01:45 PM
Lab Order:	0812094	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020					Analyst: AJR
Beryllium	0.634	0.0255	0.0815		mg/Kg-dry	5	12/11/08 03:28 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	9.96	0	0	N	WT%	1	12/11/08 02:40 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

DHL Analytical

Date: 12/12/08

CLIENT:	Geo-Marine, Inc.	Client Sample ID:	BE-3, 0-0.5'
Project:	Swift - San Antonio, TX	Lab ID:	0812094-04
Project No:	30.590.00.02	Collection Date:	12/10/08 02:10 PM
Lab Order:	0812094	Matrix:	Soil

Analyses	Result	SDL	RL	Qual	Units	DF	Date Analyzed
Trace Metals: ICP-MS - Solid		SW6020					Analyst: AJR
Beryllium	0.500	0.0264	0.0846		mg/Kg-dry	5	12/11/08 03:23 PM
Percent Moisture		D2216					Analyst: RP
Percent Moisture	12.4	0	0	N	WT%	1	12/11/08 02:40 PM

Qualifiers:	See Final Page of Report for MQLs and MDLs	J	Analyte detected between SDL and RL
B	Analyte detected in the associated Method Blank	N	Parameter not NELAC certified
C	Sample Result or QC discussed in the Case Narrative	ND	Not Detected at the SDL
DF	Dilution Factor	RL	Reporting Limit (MQL adjusted for moisture and sample size)
E	TPH pattern not Gas or Diesel Range Pattern	S	Spike Recovery outside control limits
		SDL	Sample Detection Limit

CLIENT: Geo-Marine, Inc.
 Work Order: 0812094
 Project: Swift - San Antonio, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_081211A

Sample ID:	MB-32650	Batch ID:	32650	TestNo:	SW6020	Units:	mg/Kg			
SampType:	MBLK	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 04:13 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	ND	0.0800								

Sample ID:	LCS-32650	Batch ID:	32650	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCS	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 04:18 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	43.6	0.0800	50.00	0	87.1	80	120			

Sample ID:	LCSD-32650	Batch ID:	32650	TestNo:	SW6020	Units:	mg/Kg			
SampType:	LCSD	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 04:23 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	44.1	0.0800	50.00	0	88.2	80	120	1.20	25	

Sample ID:	0812078-07A MS	Batch ID:	32650	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MS	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 04:43 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	43.4	0.0857	53.59	1.082	78.9	80	120			S

Sample ID:	0812078-07A MSD	Batch ID:	32650	TestNo:	SW6020	Units:	mg/Kg-dry			
SampType:	MSD	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 04:49 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	47.1	0.0906	56.62	1.082	81.3	80	120	8.36	25	

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0812094
 Project: Swift - San Antonio, TX

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS3_081211A

Sample ID:	ICV1-081211	Batch ID:	R41005	TestNo:	SW6020	Units:	mg/L			
SampType:	ICV	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 01:23 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	0.100	0.00100	0.100	0	100	90	110			
Sample ID:	CCV1-081211	Batch ID:	R41005	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 02:31 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	0.194	0.00100	0.200	0	96.8	90	110			
Sample ID:	CCV2-081211	Batch ID:	R41005	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 03:33 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	0.192	0.00100	0.200	0	95.8	90	110			
Sample ID:	CCV3-081211	Batch ID:	R41005	TestNo:	SW6020	Units:	mg/L			
SampType:	CCV	Run ID:	ICP-MS3_081211A	Analysis Date:	12/11/08 05:12 PM	Prep Date:				
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Beryllium	0.187	0.00100	0.200	0	93.6	90	110			

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
 Work Order: 0812094
 Project: Swift - San Antonio, TX

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_081211A

Sample ID:	0812094-04A DUP	Batch ID:	PMOIST_081211A	TestNo:	D2216	Units:	WT%			
SampType:	DUP	Run ID:	PMOIST_081211A	Analysis Date:	12/11/08 02:40 PM	Prep Date:	12/11/08			
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	12.9	0	0	12.40				4.37	30	N

Qualifiers:	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Geo-Marine, Inc.
Work Order: 0812094
Project: Swift - San Antonio, TX

SQL SUMMARY REPORT

TestNo: SW6020 Analyte	MDL mg/Kg	SQL mg/Kg
Beryllium	0.0250	0.0800

Qualifiers:
SQL - Method Quantitation Limit as defined by TRRP
MDL - Method Detection Limit as defined by TRRP