



CRG Marine Laboratories, Inc.

"A Center for Excellence in Analytical Chemistry and Environmental Microbiology"

April 04, 2007

Heal the Bay
1444 9th Street
Santa Monica, CA 90401

Re: CRG Marine Laboratories
Heal the Bay

Project ID: S2703
Project ID: Compton Creek Watershed

ATTN: James Alamillo

Enclosed is the subcontract data for your project.

Please don't hesitate to contact your project manger if you have any questions and thank you very much for using our laboratory for your analytical needs.

Regards,

Marlene M. Merchain
Subcontract Manager

Reviewed and Approved _____

SUB-CONTRACT LAB REPORT



Applied Marine Sciences, Inc.

502 N. Hwy 3, Suite B, League City, TX 77573, (281) 554-7272 Fax (281) 554-6356

ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S1
AMS Sample ID: 26812

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.88	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

KS Davis, P.G.

AMS, Inc. Technical Director



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ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S2
AMS Sample ID: 26813

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.60	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

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- * TOC spike duplicate not analyzed every 10 samples

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ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S3
AMS Sample ID: 26814

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.64	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

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- * TOC spike duplicate not analyzed every 10 samples

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ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S4
AMS Sample ID: 26815

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.60	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

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- * TOC spike duplicate not analyzed every 10 samples

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ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S5
AMS Sample ID: 26816

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.44	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

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ANALYTICAL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Client Sample ID: S6
AMS Sample ID: 26817

AMS Project Number: 07-023
Date Sampled: 3/8/2007
Date Received: 3/23/2007

<u>Parameter</u>	<u>Result</u>	<u>Unit</u>	<u>Data Qualifier</u>	<u>LOD</u>	<u>LOQ</u>	<u>Method</u>	<u>Matrix</u>	<u>Date Analyzed</u>
Total Organic Carbon	0.28	%		0.01	0.03	EPA 9060A	Sediment	4/3/2007

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

- * TOC sample not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

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QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Matrix: Sediment
Method: EPA 9060A

AMS Project Number: 07-023
Date Analyzed: 4/3/2007
Batch ID: 040307-01

Method Blank (Batch Continuing Blank (CB)), Continuing Calibration Verification (CCV) and Independent Continuing Calibration Verification (ICCV) Results:

AMS Sample ID	Parameter	Result (%)	CCV Conc. (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits (%)
CB-01	TOC	0.01	0.01	--	U	0.01	0.03	≤ 0.03
CCV-01	TOC	4.85	4.80	1.04		0.01	0.03	≤ 5 RPD
ICCV-01	TOC	2.06	2.00	2.96		0.01	0.03	≤ 5 RPD

Sample Duplicate Results:

AMS Sample ID	Parameter	Result (%)	Duplicate Result (%)	Relative % Difference (%)	Data Qualifier	LOD (%)	LOQ (%)	QC Limits
26817	TOC	0.28	0.29	3.51		0.01	0.03	≤ 25 RPD

Samples in Batch (AMS ID):
26811 26814 26817
26812 26815
26813 26816

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

- * TOC samples not analyzed in quadruplicate
- * TOC spike duplicate not analyzed every 10 samples

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.

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QUALITY CONTROL RESULTS

Client: CRG Marine Laboratories
Project Number: S2703
Project Name: N/A
Matrix: Sediment
Method: EPA 9060A

AMS Project Number: 07-023
Date Analyzed: 4/3/2007

Data Qualifiers:

- U Undetected at the Limit of Detection (LOD): The associated value is the Limit of Detection, adjusted by any dilution factor used in the analysis.
- J The analyte was positively identified, but was below the Limit of Quantitation (LOQ). The quantitation is an estimate.
- B Blank contamination: The analyte was detected above one-half the LOD in an associated blank.
- Q One or more Quality Control criteria failed. Data usability should be carefully assessed by the Project Team.
- I Insufficient sample was provided to perform required Quality Control analyses and/or to meet method-specific sample volume recommendations.

Definitions:

- LOD The Limit of Detection (LOD) is determined by quantitative establishment of the Method Detection Limit (MDL), as defined in 40 CFR 136(b).
- LOQ The Limit of Quantitation (LOQ) is the minimum level, concentration or quantity of a target variable (target analyte) that can be quantitatively reported with a specified level of confidence. As defined in DoD QSM §D.1.2.2, the LOQ value must be a minimum of 3 times the LOD, although the specified level of confidence may have a lower quantitative value.

Quality Assurance: These analyses were performed in accordance with EPA guidelines, the 2006 DoD Quality Systems Manual for Environmental Laboratories (Version 3), and the 2003 NELAC Standard, with the following exceptions:

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- * TOC spike duplicate not analyzed every 10 samples

Project-specific Quality Assurance requirements supersede those provided by the above quality systems and documents. Measurements of uncertainty are available upon request.

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CHAIN-OF-CUSTODY

2020 Del Amo Blvd., Suite 200, Torrance, CA 90501-1206
PHONE (310) 533-5190 FAX (310) 533-5003

CHAIN-OF-CUSTODY RECORD

Client Name		Heal the Bay		REQUESTED ANALYSIS																	
Address		1444 9th St., Santa Monica, CA, 90401																			
Sampled By		James Alamillo and Kirsten James																			
Project Manager		James Alamillo																			
Phone		310-451-1500 xt.115																			
FAX		310-496-1902																			
Email		jalamillo@healthebay.org																			
Project Name/Number		Compton Creek Watershed																			
P.O. Number		#8426																			
Client Sample ID	Sample Date	Sample Time	Sample Matrix*	Container		TOC*	PAH	Orangano-Chlorines/PCBs	Metals												
				Quantity	Type																
1	S1	3/8/2007	12:10	SED	4oz	clear glass	x														
2	S2	3/8/2007	12:27	SED	4oz	clear glass	x														
3	S3	3/8/2007	12:35	SED	4oz	clear glass	x														
4	S4	3/8/2007	12:50	SED	4oz	clear glass	x														
5	S5	3/8/2007	1:13	SED	4oz	clear glass	x														
6	S6	3/8/2007	1:46	SED	4oz	clear glass	x														
7																					
8																					
9																					
10																					
Correct Containers:		Yes	No			RELINQUISHED BY															
Sample Temperature:		Ambient	Cold	Warm																	
Sample Preservative:		Yes	No			Signature: <i>James Alamillo</i>															
Turnaround Time:		STD	Specify:			Print:															
Report Format:		pdf	EDD	hardcopy			Company:														
Comments:						DATE: TIME:															
*Note: First analyze for TOC test before processing the samples for the other analytes. Three of the six samples will be selected for the second round of analysis. S2703 P27105 b JV						RECEIVED BY															
						Signature: <i>Jim Lee</i>															
						Print: <i>Lina Lee</i>															
						Company: <i>CRB</i>															
CRG Project ID:		P27105		(lab use only)		DATE: 03-08-07 TIME: 1426															
CRG Sample ID:				(lab use only)																	
*MATRIX CODES: (SED = Sediment); (TISS = Tissue); (SW = Seawater, Saltwater); (FW = Freshwater); (WW = Wastewater); (STRMW = Stormwater)																					