



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

October 15th, 2007

Mr. Bob Stearns
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1432

Dear Mr. Stearns:

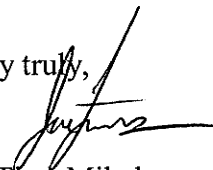
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Methods for Assessing the Toxicity of Sediment-associated Contaminants with Estuarine and Marine Amphipods*, EPA/600/R-94/025. Results were as follows:

CLIENT:	Calscience Environmental Laboratories, Inc.
SAMPLE I.D.:	1-Mission Lagoon
DATE RECEIVED:	24 September 2008
ABC LAB. NO.:	CSE0908.190

***Eohaustorius estuarius* 10 Day Survival Sediment Bioassay**

Percent Survival = 88.0% Survival

Yours very truly,


f. Thomas (Tim) Mikel
Laboratory Director

Eohaustorius 10 Day Sediment Survival Bioassay

Start Date: 9/30/2008	Test ID: CSE0908190	Sample ID: CSE0908190
End Date: 10/10/2008	Lab ID: CAABC	Sample Type: SEDIMENT
Sample Date: 9/23/2008	Protocol: EPA600/R-94/025	Test Species: EE-Eohaustorius estuarius
Comments: 1 of 5 Mission Lagoon		

Conc-%	1	2	3	4	5
N Control	0.9500	0.9500	1.0000	0.9500	0.9500
100	0.8500	0.9000	0.8500	0.9500	0.8500

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical	Isotonic	
			Mean	Min	Max	CV%	N			Mean	N-Mean
N Control	0.9600	1.0000	1.3680	1.3453	1.4588	3.710	5			0.9600	1.0000
*100	0.8800	0.9167	1.2227	1.1731	1.3453	6.215	5	17.00	19.00	0.8800	0.9167

Auxiliary Tests

Shapiro-Wilk's Test indicates non-normal distribution ($p \leq 0.01$)	Statistic 0.77876	Critical 0.781	Skew 1.34758	Kurt 0.62425
F-Test indicates equal variances ($p = 0.45$)	2.24261	23.1545		

Hypothesis Test (1-tail, 0.05)

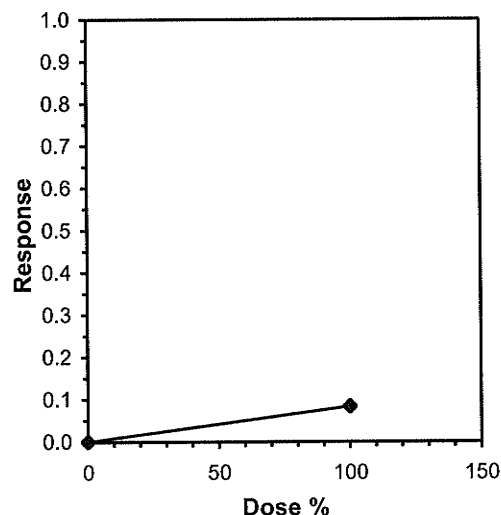
Wilcoxon Two-Sample Test indicates significant differences

Treatments vs N Control

Linear Interpolation (200 Resamples)

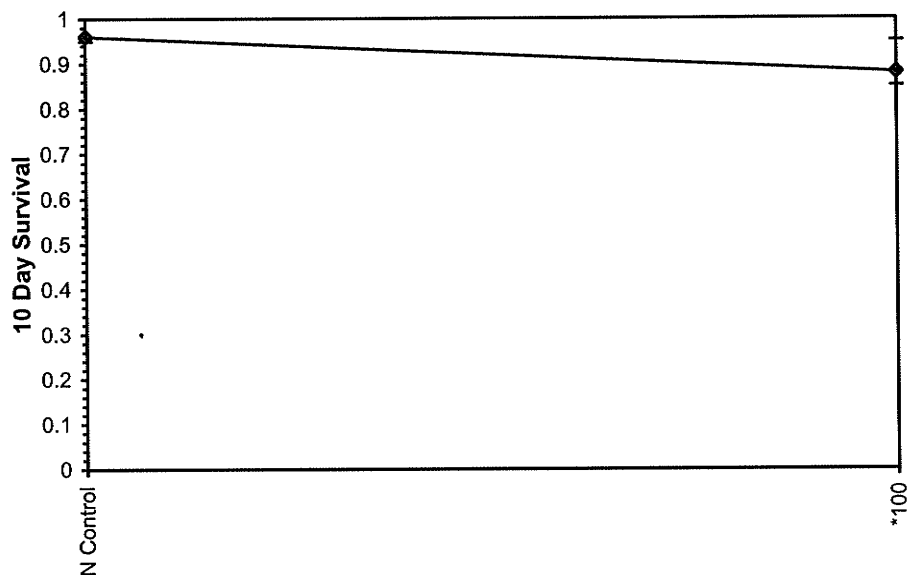
Point	%	SD	95% CL(Exp)	Skew
IC05*	60.000			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			

* indicates IC estimate less than the lowest concentration



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Comments: 1 of 5 Mission Lagoon		

Dose-Response Plot

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End Date:	10/10/2008	Lab ID:	CAABC	Sample Type:	SEDIMENT
Sample Date:	9/23/2008	Protocol:	EPA600/R-94/025	Test Species:	EE-Eohaustorius estuarius
Comments:	1 of 5 Mission Lagoon				

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	15.00	15.00	15.00	0.00	0.00	2
100		15.00	15.00	15.00	0.00	0.00	2
N Control	pH	7.85	7.80	7.90	0.07	3.39	2
100		7.70	7.70	7.70	0.00	0.00	2
N Control	Dissolved Oxygen	9.95	9.80	10.10	0.21	4.63	2
100		10.05	10.00	10.10	0.07	2.65	2
N Control	Salinity ppt	20.00	20.00	20.00	0.00	0.00	2
100		20.00	20.00	20.00	0.00	0.00	2