



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH
October 26, 2007

Mr. Ranjit Clarke
Calscience Environmental
7440 Lincoln Way
Garden Grove, CA 92841-1432

Dear Mr. Clarke:

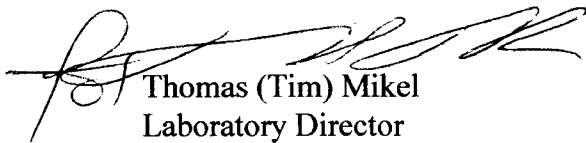
We are pleased to present the enclosed revised bioassay report. The test was conducted under guidelines prescribed in *Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, EPA-821-R-02-012*. Results were as follows:

CLIENT:	City of Santa Barbara-Creeks Division
SAMPLE I.D.:	6MC2800
DATE RECEIVED:	10 Oct - 07
ABC LAB. NO.:	CSE1007.233

96 HOUR ACUTE FATHEAD MINNOW SURVIVAL BIOASSAY

LC50	=	95 % Survival in 100 % Sample
TU(a)	=	0.41

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Larval Fish Growth and Survival Test-96 Hr Survival

Start Date: 10/10/2007	Test ID: CSE1007233	Sample ID: CA0000000
End Date: 10/14/2007	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 10/10/2007	Protocol: EPA-821-R-02-012	Test Species: PP-Pimephales promelas
Comments: 6-MC2800		

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

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root				N	t-Stat	1-Tailed Critical	MSD	Isotonic	
			Mean	Min	Max	CV%					Mean	N-Mean
N Control	1.0000	1.0000	1.4120	1.4120	1.4120	0.000	4				1.0000	1.0000
100	0.9500	0.9500	1.3305	1.2490	1.4120	8.661	2	1.633	2.132	0.1064	0.9500	0.9500

Auxiliary TestsShapiro-Wilk's Test indicates normal distribution ($p > 0.01$)

Equality of variance cannot be confirmed

Hypothesis Test (1-tail, 0.05)

Homoscedastic t Test indicates no significant differences

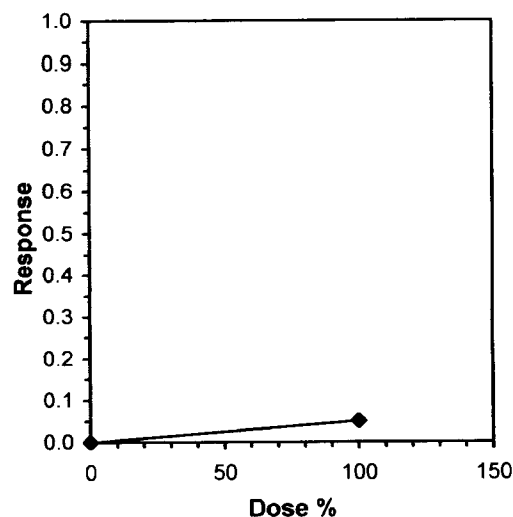
Treatments vs N Control

Statistic	Critical	Skew	Kurt
0.82716	0.713	0	2.5

MSDu	MSDp	MSB	MSE	F-Prob	df
0.04368	0.0448	0.00885	0.00332	0.17781	1, 4

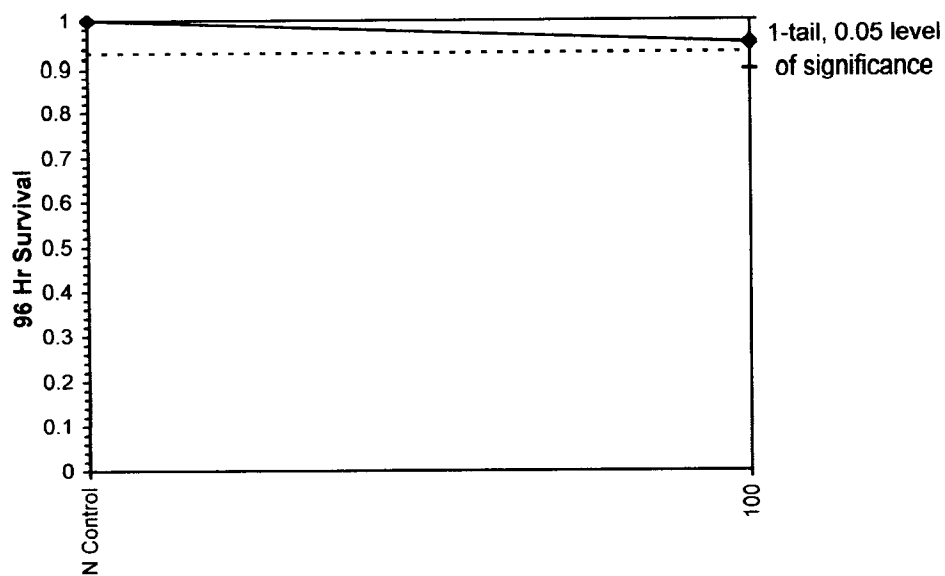
Linear Interpolation (200 Resamples)

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



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Dose-Response Plot

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Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	24.00	24.00	24.00	0.00	0.00	3
100		24.00	24.00	24.00	0.00	0.00	3
N Control	pH	8.30	8.30	8.30	0.00	0.00	3
100		8.13	7.90	8.30	0.21	5.61	3
N Control	DO mg/L	6.83	6.70	6.90	0.12	4.97	3
100		7.63	6.20	8.80	1.32	15.05	3
N Control	Hardness mg/L	93.33	92.00	94.00	1.15	1.15	3
100		250.00	250.00	250.00	0.00	0.00	3
N Control	Cond-umhos	346.00	339.00	358.00	10.44	0.93	3
100		1551.00	1521.00	1585.00	32.19	0.37	3
N Control	Alkalinity mg/L	65.00	61.00	67.00	3.46	2.86	3
100		250.00	250.00	250.00	0.00	0.00	3
