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TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

December 7, 2005

Ms. Darla Wise
County of Ventura
Flood Control District
800 South Victoria Avenue
Ventura, CA 93009

Dear Ms. Wise:


We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA-600/R95/136, 1995. Results were as follows:

CLIENT:	County of Ventura
SAMPLE I.D.:	ME-CC
DATE RECEIVED:	09 Nov - 05
ABC LAB. NO.:	VCF1105.097

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105097	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-CC		

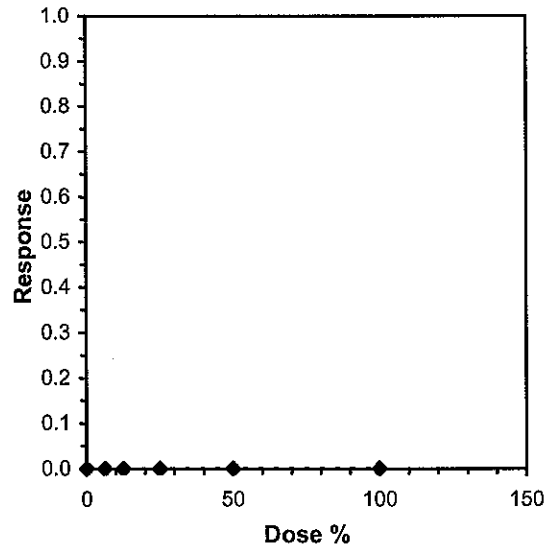
Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000
50	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical	Isotonic	
			Mean	Min	Max	CV%	N			Mean	N-Mean
N Control	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4			1.0000	1.0000
6.25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
12.5	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
50	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
100	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01) Equality of variance cannot be confirmed	1	0.884		

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test Treatments vs N Control	100	>100		1

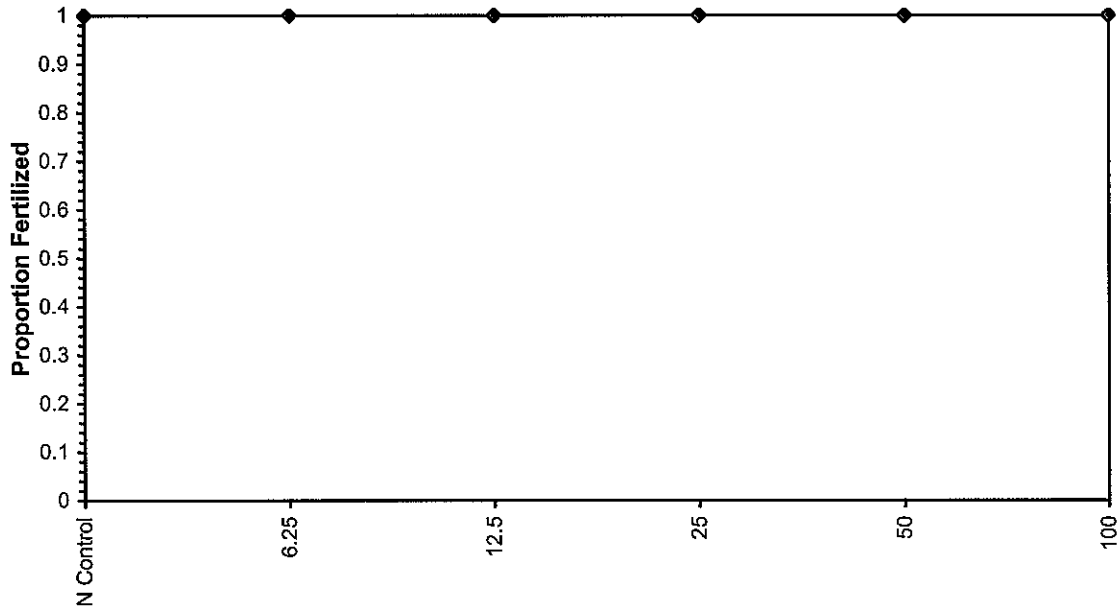
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105097	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-CC		

Dose-Response Plot

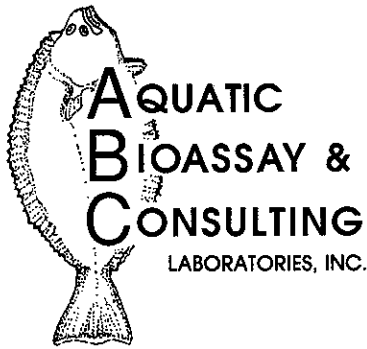


Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105097	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-CC		

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	14.80	14.80	14.80	0.00	0.00	2
6.5		14.90	14.90	14.90	0.00	0.00	1
6.25		14.90	14.90	14.90	0.00	0.00	1
12.5		14.90	14.90	14.90	0.00	0.00	2
25		14.80	14.80	14.80	0.00	0.00	2
50		14.80	14.80	14.80	0.00	0.00	2
100		14.80	14.80	14.80	0.00	0.00	2
N Control	pH	8.30	8.30	8.30	0.00	0.00	2
6.5		7.90	7.90	7.90	0.00	0.00	1
6.25		7.90	7.90	7.90	0.00	0.00	1
12.5		7.90	7.90	7.90	0.00	0.00	2
25		7.90	7.90	7.90	0.00	0.00	2
50		7.80	7.80	7.80	0.00	0.00	2
100		7.80	7.80	7.80	0.00	0.00	2
N Control	DO mg/L	9.20	9.20	9.20	0.00	0.00	2
6.5		9.00	9.00	9.00	0.00	0.00	1
6.25		9.00	9.00	9.00	0.00	0.00	1
12.5		9.00	9.00	9.00	0.00	0.00	2
25		9.00	9.00	9.00	0.00	0.00	2
50		9.00	9.00	9.00	0.00	0.00	2
100		8.60	8.60	8.60	0.00	0.00	2
N Control	Salinity ppt	34.00	34.00	34.00	0.00	0.00	2
6.5		34.00	34.00	34.00	0.00	0.00	1
6.25		34.00	34.00	34.00	0.00	0.00	1
12.5		34.00	34.00	34.00	0.00	0.00	2
25		34.00	34.00	34.00	0.00	0.00	2
50		34.00	34.00	34.00	0.00	0.00	2
100		34.00	34.00	34.00	0.00	0.00	2



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

December 7, 2005

Ms. Darla Wise
County of Ventura
Flood Control District
800 South Victoria Avenue
Ventura, CA 93009

Dear Ms. Wise:

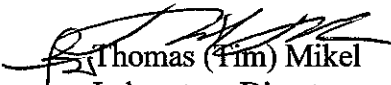
We are pleased to present the enclosed bioassay report. The test was conducted under guidelines prescribed in *Short-Term Methods for Measuring the Chronic Toxicity of Effluents and Receiving Waters to West Coast Marine and Estuarine Organisms*, EPA-600/R95/136, 1995. Results were as follows:

CLIENT:	County of Ventura
SAMPLE I.D.:	ME-SCR
DATE RECEIVED:	09 Nov - 05
ABC LAB. NO.:	VCF1105.098

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Sperm Cell Fertilization Test-Proportion Fertilized

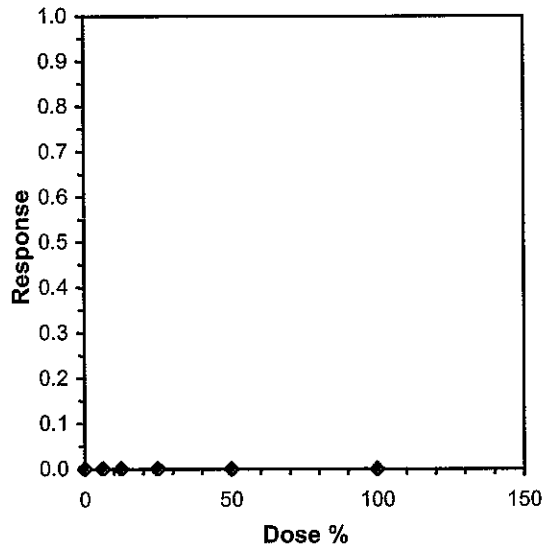
Start Date: 11/10/2005	Test ID: VCF1105098	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-SCR		

Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000
50	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical	Isotonic	
			Mean	Min	Max	CV%	N			Mean	N-Mean
N Control	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4			1.0000	1.0000
6.25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
12.5	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
50	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
100	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.884		
Equality of variance cannot be confirmed				
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	100	>100		1
Treatments vs N Control				

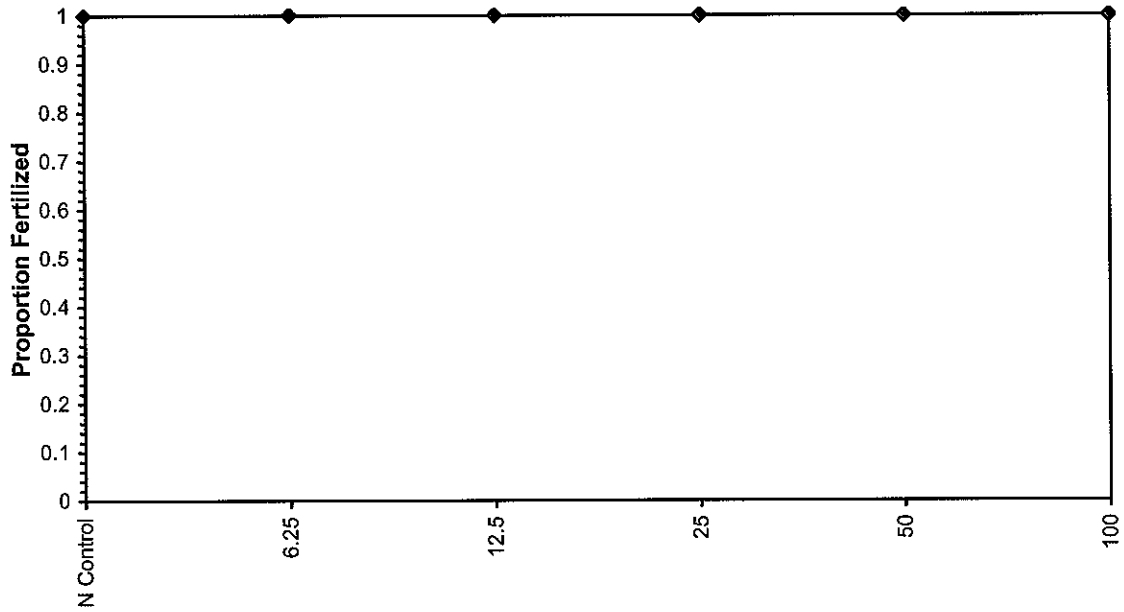
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105098	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-SCR		

Dose-Response Plot



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105098	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-SCR		

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	14.80	14.80	14.80	0.00	0.00	2
6.5		14.80	14.80	14.80	0.00	0.00	1
6.25		14.80	14.80	14.80	0.00	0.00	1
12.5		14.80	14.80	14.80	0.00	0.00	2
25		14.80	14.80	14.80	0.00	0.00	2
50		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	8.30	8.30	8.30	0.00	0.00	2
6.5		8.00	8.00	8.00	0.00	0.00	1
6.25		8.00	8.00	8.00	0.00	0.00	1
12.5		7.90	7.90	7.90	0.00	0.00	2
25		7.90	7.90	7.90	0.00	0.00	2
50		7.90	7.90	7.90	0.00	0.00	2
100		7.90	7.90	7.90	0.00	0.00	2
N Control	DO mg/L	9.20	9.20	9.20	0.00	0.00	2
6.5		9.10	9.10	9.10	0.00	0.00	1
6.25		9.10	9.10	9.10	0.00	0.00	1
12.5		9.10	9.10	9.10	0.00	0.00	2
25		9.00	9.00	9.00	0.00	0.00	2
50		9.00	9.00	9.00	0.00	0.00	2
100		8.70	8.70	8.70	0.00	0.00	2
N Control	Salinity ppt	34.00	34.00	34.00	0.00	0.00	2
6.5		34.00	34.00	34.00	0.00	0.00	1
6.25		34.00	34.00	34.00	0.00	0.00	1
12.5		34.00	34.00	34.00	0.00	0.00	2
25		34.00	34.00	34.00	0.00	0.00	2
50		34.00	34.00	34.00	0.00	0.00	2
100		34.00	34.00	34.00	0.00	0.00	2



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CLIENT:	County of Ventura
SAMPLE I.D.:	ME-VR2
DATE RECEIVED:	09 Nov - 05
ABC LAB. NO.:	VCF1105.099

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

NOEC	=	100.00 %
TUc	=	1.00
IC25	=	>100.00 %
IC50	=	>100.00 %

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Sperm Cell Fertilization Test-Proportion Fertilized

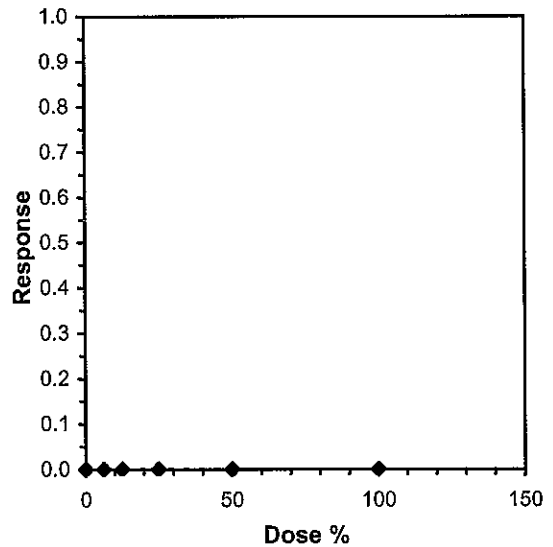
Start Date: 11/10/2005	Test ID: VCF1105099	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-VR2		

Conc-%	1	2	3	4
N Control	1.0000	1.0000	1.0000	1.0000
6.25	1.0000	1.0000	1.0000	1.0000
12.5	1.0000	1.0000	1.0000	1.0000
25	1.0000	1.0000	1.0000	1.0000
50	1.0000	1.0000	1.0000	1.0000
100	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical	Isotonic	
			Mean	Min	Max	CV%	N			Mean	N-Mean
N Control	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4			1.0000	1.0000
6.25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
12.5	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
25	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
50	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
100	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution (p > 0.01)	1	0.884		
Equality of variance cannot be confirmed				
Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test	100	>100		1
Treatments vs N Control				

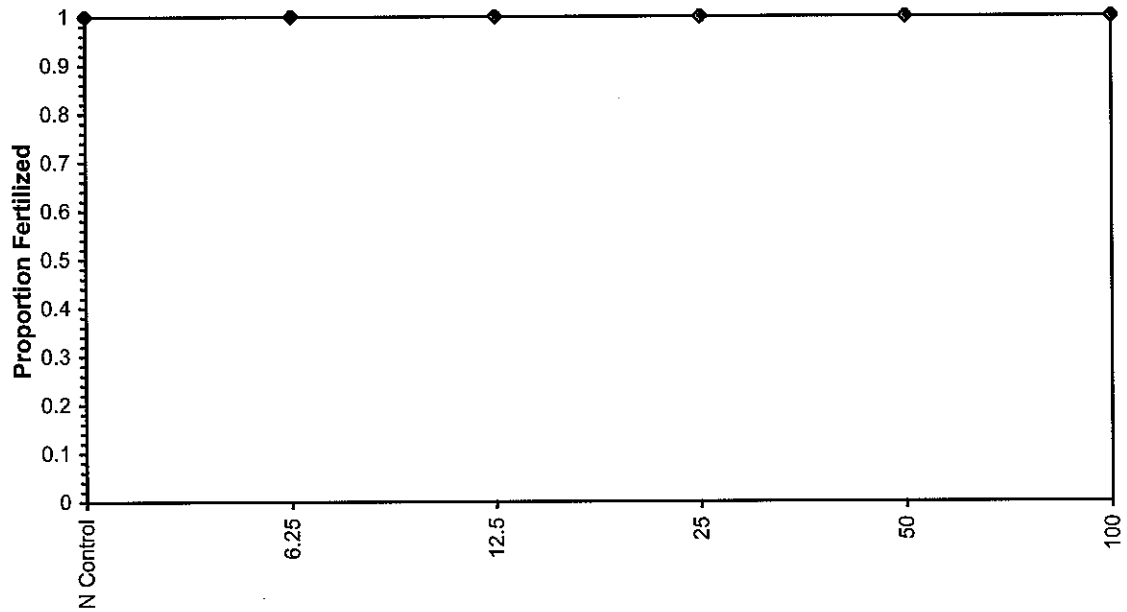
Linear Interpolation (200 Resamples)				
Point	%	SD	95% CL(Exp)	Skew
IC05	>100			
IC10	>100			
IC15	>100			
IC20	>100			
IC25	>100			
IC40	>100			
IC50	>100			



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105099	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-VR2		

Dose-Response Plot



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: VCF1105099	Sample ID: CA000000
End Date: 11/10/2005	Lab ID: CAABC	Sample Type: EFF1-POTW
Sample Date: 11/9/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: ME-VR2		

Auxiliary Data Summary

Conc-%	Parameter	Mean	Min	Max	SD	CV%	N
N Control	Temp C	14.80	14.80	14.80	0.00	0.00	2
6.5		14.80	14.80	14.80	0.00	0.00	1
6.25		14.80	14.80	14.80	0.00	0.00	1
12.5		14.80	14.80	14.80	0.00	0.00	2
25		14.80	14.80	14.80	0.00	0.00	2
50		15.10	15.10	15.10	0.00	0.00	2
100		15.10	15.10	15.10	0.00	0.00	2
N Control	pH	8.30	8.30	8.30	0.00	0.00	2
6.5		7.80	7.80	7.80	0.00	0.00	1
6.25		7.80	7.80	7.80	0.00	0.00	1
12.5		7.80	7.80	7.80	0.00	0.00	2
25		7.80	7.80	7.80	0.00	0.00	2
50		7.80	7.80	7.80	0.00	0.00	2
100		7.70	7.70	7.70	0.00	0.00	2
N Control	DO mg/L	9.20	9.20	9.20	0.00	0.00	2
6.5		9.00	9.00	9.00	0.00	0.00	1
6.25		9.00	9.00	9.00	0.00	0.00	1
12.5		9.00	9.00	9.00	0.00	0.00	2
25		9.00	9.00	9.00	0.00	0.00	2
50		9.00	9.00	9.00	0.00	0.00	2
100		8.40	8.40	8.40	0.00	0.00	2
N Control	Salinity ppt	34.00	34.00	34.00	0.00	0.00	2
6.5		34.00	34.00	34.00	0.00	0.00	1
6.25		34.00	34.00	34.00	0.00	0.00	1
12.5		34.00	34.00	34.00	0.00	0.00	2
25		34.00	34.00	34.00	0.00	0.00	2
50		34.00	34.00	34.00	0.00	0.00	2
100		34.00	34.00	34.00	0.00	0.00	2



TOXICITY TESTING • OCEANOGRAPHIC RESEARCH

CHRONIC SEA URCHIN FERTILIZATION BIOASSAY

DATE: 10 November - 05


STANDARD TOXICANT: Copper Chloride

NOEC = 32.00 ug/l

IC25 = 63.27 ug/l

IC50 = 75.60 ug/l

Yours very truly,


Thomas (Tim) Mikel
Laboratory Director

Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: URCft1110	Sample ID: REF-Ref Toxicant
End Date: 11/10/2005	Lab ID: ABC LABORA	Sample Type: CUCL-Copper chloride
Sample Date: 11/10/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: Standard Toxicant		

Conc-ug/L	1	2	3	4
Control	1.0000	1.0000	1.0000	1.0000
18	1.0000	1.0000	1.0000	1.0000
32	1.0000	1.0000	1.0000	0.9800
56	0.9200	0.9400	0.7600	0.9700
100	0.0000	0.0000	0.0200	0.0000
180	0.0000	0.0000	0.0000	0.0000

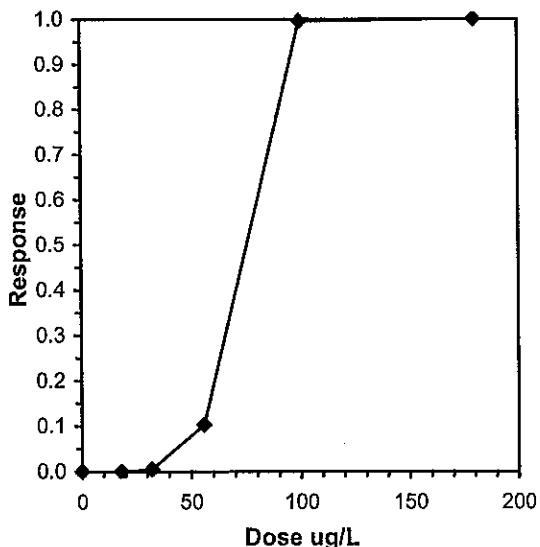
Conc-ug/L	Transform: Arcsin Square Root							Rank Sum	1-Tailed Critical	Isotonic	
	Mean	N-Mean	Mean	Min	Max	CV%	N			Mean	N-Mean
Control	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4			1.0000	1.0000
18	1.0000	1.0000	1.5208	1.5208	1.5208	0.000	4	18.00	10.00	1.0000	1.0000
32	0.9950	0.9950	1.4978	1.4289	1.5208	3.067	4	16.00	10.00	0.9950	0.9950
*56	0.8975	0.8975	1.2657	1.0588	1.3967	11.505	4	10.00	10.00	0.8975	0.8975
*100	0.0050	0.0050	0.0730	0.0500	0.1419	62.938	4	10.00	10.00	0.0050	0.0050
*180	0.0000	0.0000	0.0500	0.0500	0.0500	0.000	4	10.00	10.00	0.0000	0.0000

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates non-normal distribution (p <= 0.01) Equality of variance cannot be confirmed	0.74878	0.884	-1.5924	7.78047

Hypothesis Test (1-tail, 0.05)	NOEC	LOEC	ChV	TU
Steel's Many-One Rank Test Treatments vs Control	32	56	42.332	

Linear Interpolation (200 Resamples)

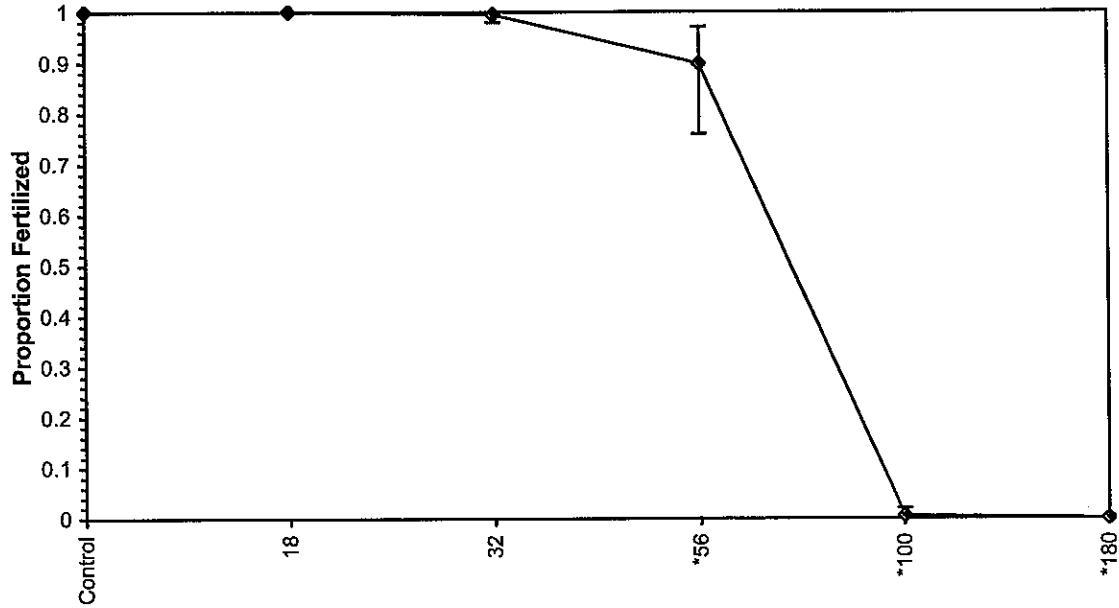
Point	ug/L	SD	95% CL(Exp)		Skew
IC05	43.077	5.801	34.210	64.668	0.8464
IC10	55.385	4.449	37.157	60.941	-0.6686
IC15	58.342	2.570	45.494	62.825	-1.6682
IC20	60.807	1.963	53.556	65.003	-1.0396
IC25	63.272	1.772	56.476	67.182	-0.7116
IC40	70.667	1.418	65.237	73.718	-0.7237
IC50	75.597	1.183	71.078	78.127	-0.7344



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: URCfrt1110	Sample ID: REF-Ref Toxicant
End Date: 11/10/2005	Lab ID: ABC LABORA	Sample Type: CUCL-Copper chloride
Sample Date: 11/10/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: Standard Toxicant		

Dose-Response Plot



Sperm Cell Fertilization Test-Proportion Fertilized

Start Date: 11/10/2005	Test ID: URCft1110	Sample ID: REF-Ref Toxicant
End Date: 11/10/2005	Lab ID: ABC LABORA	Sample Type: CUCL-Copper chloride
Sample Date: 11/10/2005	Protocol: EPA/600/R	Test Species: SP-Strongylocentrotus purpuratus
Comments: Standard Toxicant		

Auxiliary Data Summary

Conc-ug/L	Parameter	Mean	Min	Max	SD	CV%	N
Control	Temp C	14.80	14.80	14.80	0.00	0.00	2
18		14.80	14.80	14.80	0.00	0.00	2
32		14.80	14.80	14.80	0.00	0.00	2
56		14.80	14.80	14.80	0.00	0.00	2
100		14.80	14.80	14.80	0.00	0.00	2
180		14.80	14.80	14.80	0.00	0.00	2
Control	pH	8.30	8.30	8.30	0.00	0.00	2
18		8.30	8.30	8.30	0.00	0.00	2
32		8.30	8.30	8.30	0.00	0.00	2
56		8.30	8.30	8.30	0.00	0.00	2
100		8.30	8.30	8.30	0.00	0.00	2
180		8.30	8.30	8.30	0.00	0.00	2
Control	Diss Oxygen	9.20	9.20	9.20	0.00	0.00	2
18		9.10	9.10	9.10	0.00	0.00	2
32		9.30	9.30	9.30	0.00	0.00	2
56		9.20	9.20	9.20	0.00	0.00	2
100		9.20	9.20	9.20	0.00	0.00	2
180		9.20	9.20	9.20	0.00	0.00	2
Control	Salinity ppt	34.00	34.00	34.00	0.00	0.00	2
18		34.00	34.00	34.00	0.00	0.00	2
32		34.00	34.00	34.00	0.00	0.00	2
56		34.00	34.00	34.00	0.00	0.00	2
100		34.00	34.00	34.00	0.00	0.00	2
180		34.00	34.00	34.00	0.00	0.00	2



Ventura County Watershed Protection District
NPDES Stormwater Monitoring Program

Grab Toxicity Samples - ABC

CHAIN-OF-CUSTODY RECORD

1 OF 1

CLIENT: Ventura County Watershed Protection District - Manager: Darla Wise 654-3942

SAMPLING DATE: EVENT #2 (Wet)

SAMPLERS:

SAMPLE INFORMATION FOR GRAB SAMPLES

SAMPLE ID	DATE/TIME COLLECTED	Acute Ceriodaphnia - 6.25, 12.5, 25, 50, 100%	Chronic Echinoderm Fertilization - 6.25, 12.5, ;						No. of 5 gal. Buckets	NOTES	Field H ₂ O Temp
ME-CC	11-09-05 13:00	X							1	see note 1	18°C
ME-SCR	11-09-05 14:00	X							1	see note 1	16.5°C
ME-VR2	11-09-05 15:00	X							1	see note 1	18.4°C

Signature Printed Name Affiliation	Relinquished By: <i>David F. Thomas</i>	Date/Time: 11-9-05 15:40
	DAVID F. THOMAS	
	VCWPD	

Signature Printed Name Affiliation	Received By: <i>Jan J. Wisenbaker</i>	Date/Time: 11-9-05 1540

Miscellaneous Notes (Hazardous Materials, Quick turn-around time, etc.):
 1. Mass Emission : Run TIE if Tuc (Chronic) is > 1 for any 2 consecutive wet weather events
 or 1 dry weather event.