Appendix D

Test Data and Summary of Statistics for the Reference Toxicant Evaluation of the Mysid, *Americamysis bahia*

CETIS Summary Report

Acute Mysid Survival Test — **Pacific EcoRisk**

Batch ID:	08-8937-5595	Test Type:	Survival (96h)	Analyst:	Melinda Hooper
Start Date:	04 Apr-13 16:10	Protocol:	EPA-821-R-02-012 (2002)	Diluent:	Laboratory Water
Ending Date:	08 Apr-13 14:30	Species:	Americamysis bahia	Brine:	Crystal Sea
Duration:	94h	Source:	Aquatic Indicators, FL	Age:	4

Sample ID:	08-2006-5052	Code:	KCl	Client:	Reference Toxicant
Sample Date:	04 Apr-13 16:10	Material:	Potassium chloride	Project:	20819
Receive Date:	04 Apr-13 16:10	Source:	Reference Toxicant		
Sample Age:	NA (20.5 °C)	Station:	In House		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
20-9473-2239	96h Survival Rate	0.5	1	0.7071	13.2%		Steel Many-One Rank Sum Test

Point Estimate Summary

Analysis ID	Endpoint	Level	g/L	95% LCL	95% UCL	TU	Method
04-1544-1891	96h Survival Rate	EC50	0.682	0.649	0.716		Spearman-Kärber

96h Survival Rate Summary

C-g/L	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Lab Water Contr	4	0.9	0.847	0.953	0.7	1	0.0707	0.141	15.7%	0.0%
0.125		4	0.975	0.956	0.994	0.9	1	0.025	0.05	5.13%	-8.33%
0.25		4	0.975	0.956	0.994	0.9	1	0.025	0.05	5.13%	-8.33%
0.5		4	0.9	0.87	0.93	0.8	1	0.0408	0.0816	9.07%	0.0%
1		4	0	0	0	0	0	0	0		100.0%
2		4	0	0	0	0	0	0	0		100.0%

96h Survival Rate Detail

C-g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Lab Water Contr	0.7	1	1	0.9
0.125		0.9	1	1	1
0.25		1	1	1	0.9
0.5		0.8	1	0.9	0.9
1		0	0	0	0
2		0	0	0	0

96h Survival Rate Binomials

C-g/L	Control Type	Rep 1	Rep 2	Rep 3	Rep 4
0	Lab Water Contr	7/10	10/10	10/10	9/10
0.125		9/10	10/10	10/10	10/10
0.25		10/10	10/10	10/10	9/10
0.5		8/10	10/10	9/10	9/10
1		0/10	0/10	0/10	0/10
2		0/10	0/10	0/10	0/10

96 Hour Acute *Americamysis bahia* Reference Toxicant Test

Client: **Reference Toxicant** · Organism Log #: 7177 Age: 4 days

Test Material: Potassium chloride Organism Supplier: Aquatic Indicator

Test ID#: 51355 Project #: 20819 Control/Diluent: DI + Crystal Sea @ 25 ppt

Test Date: 4-4-13 Randomization: 4.6.1 Control Water Batch: 919

Treatment (g/L KCl)	Temp (°C)	pH new	pH old	D.O. (mg/L) new	D.O. (mg/L) old	Salinity (ppt) new	Salinity (ppt) old	# Live Organisms Rep A	Rep B	Rep C	Rep D	SIGN-OFF
Control	20S	8.06		7.9		24.2		10	10	10	10	Test Solution Prep: JM
0.125	20.5	8.06		8.0		24.5		10	10	10	10	New WQ: LO
0.25	20.5	8.05		8.0		24.6		10	10	10	10	Initiation Date: 4-4-13
0.5	20.5	8.03		8.1		24.7		10	10	10	10	Initiation Time: 1610
1	20.5	7.99		8.1		24.9		10	10	10	10	Initiation Signoff: SS
2	20.5	7.86		8.3		25.8		10	10	10	10	RT Batch #: 92
Meter ID	38A	pH15		RD05		EC04						a.m. Feeding Signoff:
												p.m. Feeding Signoff:
Control	20.1		7.50		6.5		24.7	8	10	10	10	Count Date: 4/5/13
0.125	20.1		7.35		6.2		25.0	9	10	10	10	Count Time: 1715
0.25	20.1		7.35		6.3		25.1	10	10	10	10	Count Signoff:
0.5	20.1		7.47		6.4		25.4	9	10	9	9	Old WQ: PA
1	20.1		7.49		6.8		25.8	0	0	0	0	a.m. Feeding Signoff: DS
2	20.1		7.47		7.0		26.6	0	0	0	0	p.m. Feeding Signoff: MK
Meter ID	38A		pH19		RD05		EC08					
Control	20.3	7.94	7.37	7.9	5.0	24.3	24.6	8	10	10	9	Test Solution Prep: SS
0.125	20.3	7.96	7.33	7.9	5.3	24.5	24.7	9	10	10	10	New WQ: NB
0.25	20.3	7.96	7.32	8.0	4.8	24.7	25.0	10	10	10	10	Renewal Date: 4/6/13
0.5	20.3	7.95	7.31	8.1	4.5	24.9	25.2	9	10	9	9	Renewal Time: 1400
1	—	—	—	—	—	—	—	—	—	—	—	Renewal Signoff:
2	—	—	—	—	—	—	—	—	—	—	—	Old WQ: CO
Meter ID	38A	PH15	pH16	RD05	RD04	EC06	EC04					a.m. Feeding Signoff:
												p.m. Feeding Signoff: SS
												RT Batch #: 92
Control	20.9		7.45		5.1		24.3	8	10	10	9	Count Date: 4.7.13
0.125	20.9		7.46		5.3		24.8	9	10	10	10	Count Time: 1200
0.25	20.9		7.42		5.1		24.9	10	10	10	10	Count Signoff:
0.5	20.9		7.40		6.1		25.2	9	~~8~~ 10	9	9	Old WQ: CE
1	—		—		—		—	—	—	—	—	a.m. Feeding Signoff: MF
2	—		—		—		—	—	—	—	—	p.m. Feeding Signoff: MB
Meter ID	38A		PH18		RD05		EC08					
Control	20.0		7.20		4.4		24.4	7	10	10	9	Termination Date: 4/8/13
0.125	20.0		7.18		4.7		24.8	9	10	10	10	Termination Time: 1430
0.25	20.0		7.14		4.1		24.8	10	10	10	9	Termination Signoff: SW
0.5	20.0		7.19		4.7		25.1	8	10	9	9	Old WQ: MC
1	—		—		—		—	—	—	—	—	a.m. Feeding Signoff: MF
2	—		—		—		—	—	—	—	—	
Meter ID			PH15		RD05		EC08					