aquatic bioassay & consulting laboratories, inc

April 14, 2014

Mr. Jay Rao
DCOR
290 Maple Ct., Suite 290
Ventura, CA 93003

Dear Mr. Rao:

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/R-95/136*. Results were as follows:

CLIENT:	DCOR
SAMPLE I.D.:	Platform Edith
DATE RECEIVED:	24 March 2014
ABC LAB. NO.:	DCO0314.317

CHRONIC TOPSMELT SURVIVAL & GROWTH BIOASSAY

IWC = 0.33%

SURVIVAL	PASS
GROWTH	PASS

Yours very truly,

Scott Johnson
Laboratory Director

CETIS Summary Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	19-3977-0980	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Mar-14 14:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	01 Apr-14 12:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Comparison Summary

Analysis ID	Endpoint	NOEL	LOEL	TOEL	PMSD	TU	Method
16-5723-2897	7d Survival Rate	0.5	>0.5	NA	8.76%	200	Steel Many-One Rank Sum Test
06-8362-5132	Mean Dry Biomass-mg	0.5	>0.5	NA	23.8%	200	Dunnett Multiple Comparison Test

Point Estimate Summary

Analysis ID	Endpoint	Level	%	95% LCL	95% UCL	TU	Method
17-6229-7105	7d Survival Rate	EC5	>0.5	N/A	N/A	<200	Linear Interpolation (ICPIN)
		EC10	>0.5	N/A	N/A	<200	
		EC15	>0.5	N/A	N/A	<200	
		EC20	>0.5	N/A	N/A	<200	
		EC25	>0.5	N/A	N/A	<200	
		EC40	>0.5	N/A	N/A	<200	
		EC50	>0.5	N/A	N/A	<200	
01-6692-7552	Mean Dry Biomass-mg	IC5	>0.5	N/A	N/A	<200	Linear Interpolation (ICPIN)
		IC10	>0.5	N/A	N/A	<200	
		IC15	>0.5	N/A	N/A	<200	
		IC20	>0.5	N/A	N/A	<200	
		IC25	>0.5	N/A	N/A	<200	
		IC40	>0.5	N/A	N/A	<200	
		IC50	>0.5	N/A	N/A	<200	

Test Acceptability

Analysis ID	Endpoint	Attribute	Test Stat	TAC Limits	Overlap	Decision
16-5723-2897	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
17-6229-7105	7d Survival Rate	Control Resp	1	0.8 - NL	Yes	Passes Acceptability Criteria
01-6692-7552	Mean Dry Biomass-mg	Control Resp	1.571	0.85 - NL	Yes	Passes Acceptability Criteria
06-8362-5132	Mean Dry Biomass-mg	Control Resp	1.571	0.85 - NL	Yes	Passes Acceptability Criteria
16-5723-2897	7d Survival Rate	PMSD	0.08762	NL - 0.25	No	Passes Acceptability Criteria
06-8362-5132	Mean Dry Biomass-mg	PMSD	0.2382	NL - 0.5	No	Passes Acceptability Criteria

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	5	1	1	1	1	1	0	0	0.0%	0.0%
0.17		5	1	1	1	1	1	0	0	0.0%	0.0%
0.33		5	1	1	1	1	1	0	0	0.0%	0.0%
0.5		5	0.96	0.8489	1	0.8	1	0.04	0.08944	9.32%	4.0%

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	%Effect
0	Negative Control	5	1.571	1.294	1.848	1.322	1.92	0.09985	0.2233	14.21%	0.0%
0.17		5	1.473	1.152	1.793	1.204	1.874	0.1155	0.2582	17.53%	6.26%
0.33		5	1.52	1.06	1.98	0.934	1.858	0.1658	0.3707	24.39%	3.26%
0.5		5	1.655	1.445	1.864	1.356	1.766	0.07548	0.1688	10.2%	-5.32%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	1
0.17		1	1	1	1	1
0.33		1	1	1	1	1
0.5		1	0.8	1	1	1

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.484	1.92	1.322	1.628	1.502
0.17		1.204	1.302	1.874	1.45	1.534
0.33		1.39	1.858	0.934	1.752	1.666
0.5		1.718	1.734	1.766	1.7	1.356

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	5/5	5/5	5/5	5/5	5/5
0.17		5/5	5/5	5/5	5/5	5/5
0.33		5/5	5/5	5/5	5/5	5/5
0.5		5/5	4/5	5/5	5/5	5/5

CETIS Analytical Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-5723-2897	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Angular (Corrected)	NA	C > T	NA	NA	8.76%	0.5	>0.5	NA	200

Steel Many-One Rank Sum Test

Control vs	C-%	Test Stat	Critical	Ties	DF	P-Value	P-Type	Decision(α:5%)
Negative Control	0.17	27.5	17	1	8	0.7500	Asymp	Non-Significant Effect
	0.33	27.5	17	1	8	0.7500	Asymp	Non-Significant Effect
	0.5	25	17	1	8	0.5314	Asymp	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.008506184	0.002835395	3	1	0.4182	Non-Significant Effect
Error	0.04536632	0.002835395	16			
Total	0.0538725		19			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Mod Levene Equality of Variance	1	5.953	0.4262	Equal Variances
Variances	Levene Equality of Variance	7.111	5.292	0.0030	Unequal Variances
Distribution	Shapiro-Wilk W Normality	0.4969	0.866	<0.0001	Non-normal Distribution
Distribution	Kolmogorov-Smirnov D	0.45	0.2235	<0.0001	Non-normal Distribution
Distribution	D'Agostino Skewness	4.576	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino Kurtosis	4.175	2.576	<0.0001	Non-normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	38.38	9.21	<0.0001	Non-normal Distribution
Distribution	Anderson-Darling A2 Normality	4.585	3.878	<0.0001	Non-normal Distribution

7d Survival Rate Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	1	1	1	1	1	1	0	0.0%	0.0%
0.17		5	1	1	1	1	1	1	0	0.0%	0.0%
0.33		5	1	1	1	1	1	1	0	0.0%	0.0%
0.5		5	0.96	0.8489	1	1	0.8	1	0.04	9.32%	4.0%

Angular (Corrected) Transformed Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Contr	5	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	0.0%
0.17		5	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	0.0%
0.33		5	1.345	1.345	1.346	1.345	1.345	1.345	0	0.0%	0.0%
0.5		5	1.298	1.165	1.43	1.345	1.107	1.345	0.04763	8.21%	3.54%

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	1
0.17		1	1	1	1	1
0.33		1	1	1	1	1
0.5		1	0.8	1	1	1

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	16-5723-2897	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Nonparametric-Control vs Treatments	**Official Results:**	Yes

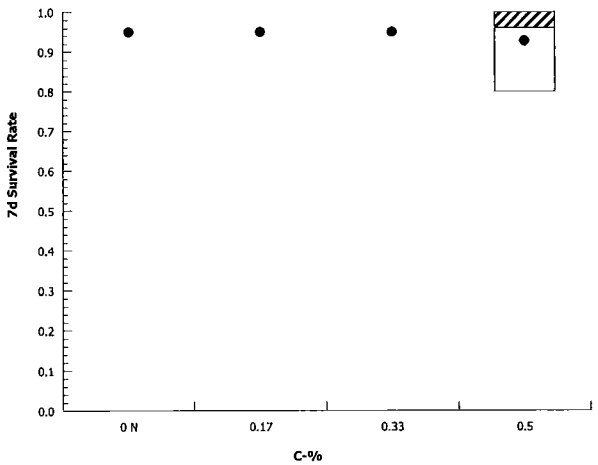
Angular (Corrected) Transformed Detail

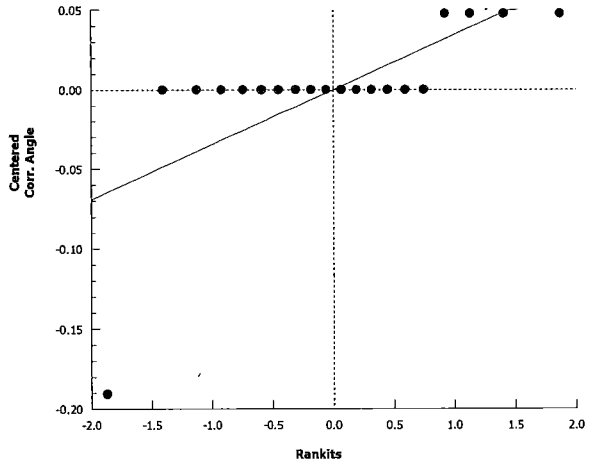
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.345	1.345	1.345	1.345	1.345
0.17		1.345	1.345	1.345	1.345	1.345
0.33		1.345	1.345	1.345	1.345	1.345
0.5		1.345	1.107	1.345	1.345	1.345

7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	5/5	5/5	5/5	5/5	5/5
0.17		5/5	5/5	5/5	5/5	5/5
0.33		5/5	5/5	5/5	5/5	5/5
0.5		5/5	4/5	5/5	5/5	5/5

Graphics





Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-8362-5132	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Data Transform	Zeta	Alt Hyp	Trials	Seed	PMSD	NOEL	LOEL	TOEL	TU
Untransformed	NA	C > T	NA	NA	23.8%	0.5	>0.5	NA	200

Dunnett Multiple Comparison Test

Control	vs	C-%	Test Stat	Critical	MSD	DF	P-Value	P-Type	Decision(α:5%)
Negative Control		0.17	0.5855	2.227	0.374	8	0.5069	CDF	Non-Significant Effect
		0.33	0.3047	2.227	0.374	8	0.6297	CDF	Non-Significant Effect
		0.5	-0.4975	2.227	0.374	8	0.8909	CDF	Non-Significant Effect

ANOVA Table

Source	Sum Squares	Mean Square	DF	F Stat	P-Value	Decision(α:5%)
Between	0.09101982	0.03033994	3	0.4297	0.7345	Non-Significant Effect
Error	1.12967	0.0706044	16			
Total	1.22069		19			

Distributional Tests

Attribute	Test	Test Stat	Critical	P-Value	Decision(α:1%)
Variances	Bartlett Equality of Variance	2.345	11.34	0.5040	Equal Variances
Variances	Mod Levene Equality of Variance	0.7706	5.953	0.5323	Equal Variances
Variances	Levene Equality of Variance	1.161	5.292	0.3552	Equal Variances
Distribution	Shapiro-Wilk W Normality	0.9699	0.866	0.7522	Normal Distribution
Distribution	Kolmogorov-Smirnov D	0.1235	0.2235	0.6117	Normal Distribution
Distribution	D'Agostino Skewness	0.8832	2.576	0.3771	Normal Distribution
Distribution	D'Agostino Kurtosis	0.6466	2.576	0.5179	Normal Distribution
Distribution	D'Agostino-Pearson K2 Omnibus	1.198	9.21	0.5493	Normal Distribution
Distribution	Anderson-Darling A2 Normality	0.2662	3.878	0.7176	Normal Distribution

Mean Dry Biomass-mg Summary

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Median	Min	Max	Std Err	CV%	%Effect
0	Negative Control	5	1.571	1.294	1.848	1.502	1.322	1.92	0.09985	14.21%	0.0%
0.17		5	1.473	1.152	1.793	1.45	1.204	1.874	0.1155	17.53%	6.26%
0.33		5	1.52	1.06	1.98	1.666	0.934	1.858	0.1658	24.39%	3.26%
0.5		5	1.655	1.445	1.864	1.718	1.356	1.766	0.07548	10.2%	-5.32%

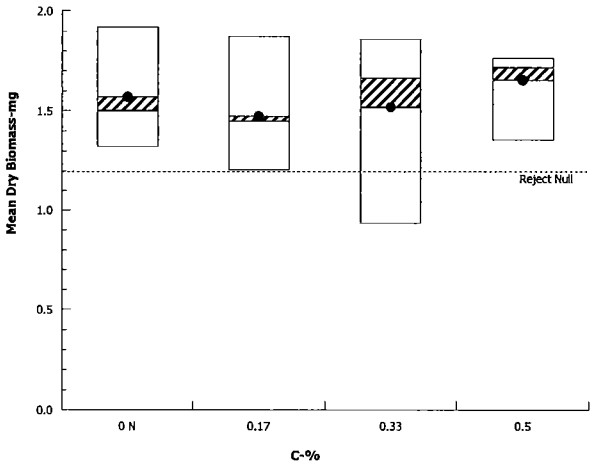
Mean Dry Biomass-mg Detail

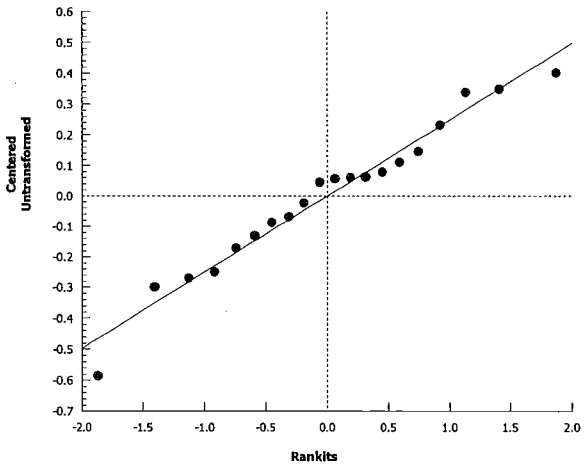
C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.484	1.92	1.322	1.628	1.502
0.17		1.204	1.302	1.874	1.45	1.534
0.33		1.39	1.858	0.934	1.752	1.666
0.5		1.718	1.734	1.766	1.7	1.356

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	06-8362-5132	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Parametric-Control vs Treatments	**Official Results:**	Yes

Graphics





CETIS Analytical Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-6229-7105	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	0	280	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
EC5	>0.5	N/A	N/A	<200	NA	NA
EC10	>0.5	N/A	N/A	<200	NA	NA
EC15	>0.5	N/A	N/A	<200	NA	NA
EC20	>0.5	N/A	N/A	<200	NA	NA
EC25	>0.5	N/A	N/A	<200	NA	NA
EC40	>0.5	N/A	N/A	<200	NA	NA
EC50	>0.5	N/A	N/A	<200	NA	NA

7d Survival Rate Summary

			Calculated Variate(A/B)								
C-%	Control Type	Count	Mean	Min	Max	Std Err	Std Dev	CV%	%Effect	A	B
0	Negative Control	5	1	1	1	0	0	0.0%	0.0%	25	25
0.17		5	1	1	1	0	0	0.0%	0.0%	25	25
0.33		5	1	1	1	0	0	0.0%	0.0%	25	25
0.5		5	0.96	0.8	1	0.04	0.08944	9.32%	4.0%	24	25

7d Survival Rate Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1	1	1	1	1
0.17		1	1	1	1	1
0.33		1	1	1	1	1
0.5		1	0.8	1	1	1

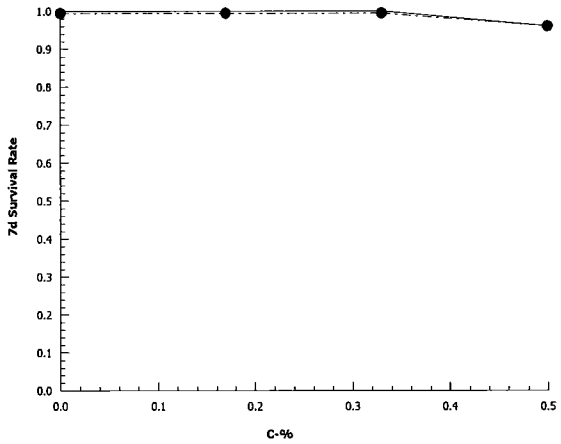
7d Survival Rate Binomials

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	5/5	5/5	5/5	5/5	5/5
0.17		5/5	5/5	5/5	5/5	5/5
0.33		5/5	5/5	5/5	5/5	5/5
0.5		5/5	4/5	5/5	5/5	5/5

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	17-6229-7105	**Endpoint:**	7d Survival Rate	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Graphics



Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Analysis ID:	01-6692-7552	**Endpoint:**	Mean Dry Biomass-mg	**CETIS Version:**	CETISv1.8.7
Analyzed:	08 Apr-14 18:01	**Analysis:**	Linear Interpolation (ICPIN)	**Official Results:**	Yes

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Linear Interpolation Options

X Transform	Y Transform	Seed	Resamples	Exp 95% CL	Method
Linear	Linear	1314421	280	Yes	Two-Point Interpolation

Point Estimates

Level	%	95% LCL	95% UCL	TU	95% LCL	95% UCL
IC5	>0.5	N/A	N/A	<200	NA	NA
IC10	>0.5	N/A	N/A	<200	NA	NA
IC15	>0.5	N/A	N/A	<200	NA	NA
IC20	>0.5	N/A	N/A	<200	NA	NA
IC25	>0.5	N/A	N/A	<200	NA	NA
IC40	>0.5	N/A	N/A	<200	NA	NA
IC50	>0.5	N/A	N/A	<200	NA	NA

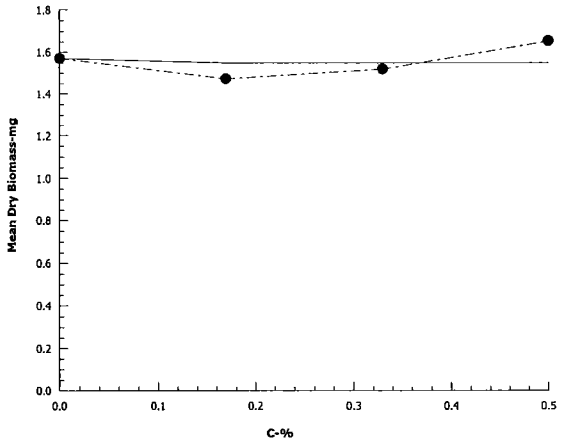
Mean Dry Biomass-mg Summary

			Calculated Variate						
C-%	**Control Type**	**Count**	**Mean**	**Min**	**Max**	**Std Err**	**Std Dev**	**CV%**	**%Effect**
0	Negative Control	5	1.571	1.322	1.92	0.09985	0.2233	14.21%	0.0%
0.17		5	1.473	1.204	1.874	0.1155	0.2582	17.53%	6.26%
0.33		5	1.52	0.934	1.858	0.1658	0.3707	24.39%	3.26%
0.5		5	1.655	1.356	1.766	0.07548	0.1688	10.2%	-5.32%

Mean Dry Biomass-mg Detail

C-%	Control Type	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5
0	Negative Control	1.484	1.92	1.322	1.628	1.502
0.17		1.204	1.302	1.874	1.45	1.534
0.33		1.39	1.858	0.934	1.752	1.666
0.5		1.718	1.734	1.766	1.7	1.356

Graphics



CETIS Measurement Report

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Batch ID:	19-3977-0980	**Test Type:**	Growth-Survival (7d)	**Analyst:**	
Start Date:	25 Mar-14 14:00	**Protocol:**	EPA/600/R-95/136 (1995)	**Diluent:**	Laboratory Seawater
Ending Date:	01 Apr-14 12:00	**Species:**	Atherinops affinis	**Brine:**	Not Applicable
Duration:	6d 22h	**Source:**	Aquatic Biosystems, CO	**Age:**	

Sample ID:	05-3325-4817	**Code:**	DCO0314.317	**Client:**	DCOR, LLC.
Sample Date:	24 Mar-14 06:00	**Material:**	Sample Water	**Project:**	Platform Edith
Receive Date:	24 Mar-14 15:40	**Source:**	Bioassay Report		
Sample Age:	32h (1 °C)	**Station:**	Produced Water Discharge (Platform Edith)		

Dissolved Oxygen-mg/L

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.338	7.045	7.63	6.8	7.7	0.1238	0.3503	4.77%	0
0.17		8	7.213	6.868	7.557	6.6	7.7	0.1457	0.4121	5.71%	0
0.33		8	7.175	6.784	7.566	6.6	7.7	0.1656	0.4683	6.53%	0
0.5		8	7.175	6.784	7.566	6.6	7.7	0.1656	0.4683	6.53%	0
Overall		32	7.225			6.6	7.7				0 (0%)

pH-Units

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	7.588	7.558	7.617	7.5	7.6	0.0125	0.03535	0.47%	0
0.17		8	7.675	7.636	7.714	7.6	7.7	0.01637	0.04629	0.6%	0
0.33		8	7.675	7.636	7.714	7.6	7.7	0.01637	0.04629	0.6%	0
0.5		8	7.675	7.636	7.714	7.6	7.7	0.01637	0.04629	0.6%	0
Overall		32	7.653			7.5	7.7				0 (0%)

Salinity-ppt

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	34	34	34	34	34	0	0	0.0%	0
0.17		8	34	34	34	34	34	0	0	0.0%	0
0.33		8	34	34	34	34	34	0	0	0.0%	0
0.5		8	34	34	34	34	34	0	0	0.0%	0
Overall		32	34			34	34				0 (0%)

Temperature-°C

C-%	Control Type	Count	Mean	95% LCL	95% UCL	Min	Max	Std Err	Std Dev	CV%	QA Count
0	Negative Contr	8	21	21	21	21	21	0	0	0.0%	0
0.17		8	21	21	21	21	21	0	0	0.0%	0
0.33		8	21	21	21	21	21	0	0	0.0%	0
0.5		8	21	21	21	21	21	0	0	0.0%	0
Overall		32	21			21	21				0 (0%)

Pacific Topsmelt 7-d Survival and Growth Test — **Aquatic Bioassay & Consulting Labs, Inc.**

Dissolved Oxygen-mg/L

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.7	7.6	7.6	7.5	6.9	6.8	7.5	7.1
0.17		7.7	7.5	7.6	7.5	6.6	6.8	7	7
0.33		7.7	7.5	7.7	7.5	6.6	6.7	6.9	6.8
0.5		7.7	7.5	7.7	7.5	6.6	6.7	6.9	6.8

pH-Units

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	7.6	7.6	7.6	7.6	7.5	7.6	7.6	7.6
0.17		7.7	7.7	7.7	7.7	7.6	7.6	7.7	7.7
0.33		7.6	7.7	7.7	7.7	7.6	7.7	7.7	7.7
0.5		7.6	7.7	7.7	7.7	7.6	7.7	7.7	7.7

Salinity-ppt

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	34	34	34	34	34	34	34	34
0.17		34	34	34	34	34	34	34	34
0.33		34	34	34	34	34	34	34	34
0.5		34	34	34	34	34	34	34	34

Temperature-°C

C-%	Control Type	1	2	3	4	5	6	7	8
0	Negative Contr	21	21	21	21	21	21	21	21
0.17		21	21	21	21	21	21	21	21
0.33		21	21	21	21	21	21	21	21
0.5		21	21	21	21	21	21	21	21

Aquatic Bioassay and Consulting Labs.
29 N. Olive Street
Ventura, CA 93001
Phone and Fax:(805) 643-5621
CHAIN OF CUSTODY RECORD

REPORT: e-mail to jrao@dcorllc.com
Fax (805) 535-2075
Company DCOR,LLC.
Address 290 Maple Court. Suite 290
Ventura CA. 93003
Contact Jay Rao at 805 535-2078

BILL TO:
P.O. #
Company: DCOR,LLC.
Address

PROJ. NO.

PROJECT NAME
Platform Edith
Whole Effluent Toxicity Tests

SAMPLER'S SIGNATURE: Dean Mesner
Print Name: Dean Mesner

CONTAINER TYPES
A=Amber B=Brass G=Glass
P=Plastic V=Voa Vial O=Other

Remarks: 8 Grab samples in 24 hours
Use EPA Method 600/R95/136

Grab Sample NO.	Date Sampled	Time Sampled	Comp	Grab	Sample Description	Matrix: Water	Soil	Sludge	Other	Container #	Container Type	Analysis	Red Abalone	Giant Kelp	Topsmelt				Remarks
1	3-23-14	0900		X	Produced Water	X				1	P		X						Produced Water Temp: 128°
2	3-23-14	1200		X	Produced Water	X								X	X				127°
3	3-23-14	1500		X	Produced Water	X													127°
4	3-23-14	1800		X	Produced Water	X													128°
5	3-23-14	2100		X	Produced Water	X													126°
6	3-24-14	0000		X	Produced Water	X													126°
7	3-24-14	0300		X	Produced Water	X													125°
8	3-24-14	0600		X	Produced Water	X													128°

CHECK ONE BOX
Dispose Samples X
Return Samples

Relinquished by :(Signature)	Date	Received by :(Signature)	Relinquished by :(Signature)	Date	Received by :(Signature)
Dean Mesner	3-24-14	R. J. R.	R. J. R.	3/24/14	[illegible]
Print Name: Dean Mesner	Time 0715	Print Name: JAY RAO	Print Name: JAY RAO	Time 3:40PM	Print Name: ELIZABETH M. ATWYMAN
Relinquished by :(Signature)	Date	Received by :(Signature)	Relinquished by :(Signature)	Date	Received by :(Signature)
Print Name:	Time	Print Name:	Print Name:	Time	Print Name:
Relinquished by :(Signature)	Date	Received by :(Signature)			
Print Name:	Time	Print Name:			

Turn Around time

24Hr.			5 day	
48Hr			Standard	X
72Hr			other	

TEMP = 1.0 °C
CHLORINE = <0.1
AMMONIA = >10