

February 4, 2005

WGR Southwest, Inc. - Lodi  
315 W. Pine Street, Suite 8  
Lodi, Ca. 95240

Attention: John Teravskis

Project: BP Carson LVW RW  
021.APC.00, LVW RW  
Sampled: 01/25/05  
Del Mar Analytical Number: IOA1453

Dear Mr. Teravskis:

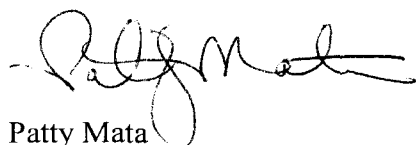
Aquatic Testing Laboratories performed Abalone Larval Development Short-Term Toxicity Test; Giant Kelp Germination and Growth Short –Term Toxicity Test; Topsmelt Larval Survival and Growth Test analyses for the project referenced above. Please use the following cross-reference table when reviewing your results.

WGR ID	Del Mar ID	Aquatic ID
RW1	IOA1453-01	A-05012603-001
RW2	IOA1453-02	A-05012603-002
RW3	IOA1453-03	A-05012603-003

Attached is the original report from the subcontract laboratory. If you have any questions or require further assistance, please contact me at (949) 261-1022, extension 213.

Sincerely yours,

DEL MAR ANALYTICAL



Patty Mata

Project Manager

Enclosure

# LABORATORY REPORT

**Aquatic  
Testing  
Laboratories**



*"dedicated to providing quality aquatic toxicity testing"*

**Date:** February 3, 2005

**Client:** Del Mar Analytical, Irvine  
17461 Derian Avenue, Suite 100  
Irvine, CA 92614  
Attn: Patty Mata

4350 Transport Street, Unit 107  
Ventura, CA 93003  
(805) 650- 0546 FAX (805) 650-0756  
CA DOHS ELAP Cert. No.: 1775

**Laboratory No.:** A-05012603-001/003  
**Sample ID.:** IOA1453-01/03

**Sample Control:** The sample was received by ATL with the chain of custody record attached.

Date Sampled: 01/25/05  
Date Received: 01/26/05  
Date Tested: 01/26/05 to 02/02/05

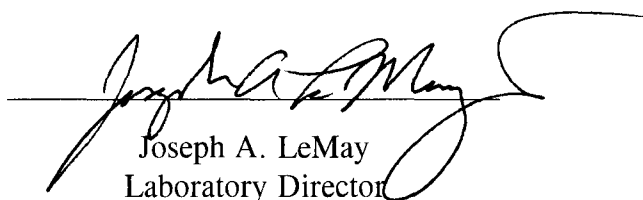
**Sample Analysis:** The following analyses were performed on your sample:

Abalone Larval Development Short-Term Toxicity Test;  
Giant Kelp Germination and Growth Short-Term Toxicity Test;  
Topsmelt Larval Survival and Growth Test.

## Result Summary:

	<u>RW1</u>		<u>RW2</u>		<u>RW3</u>	
	<u>NOEC</u>	<u>TUc</u>	<u>NOEC</u>	<u>TUc</u>	<u>NOEC</u>	<u>TUc</u>
Abalone Development:	100%	1.0	100%	1.0	100%	1.0
Kelp Spore Germination:	100%	1.0	100%	1.0	100%	1.0
Kelp Germ Tube Growth:	100%	1.0	100%	1.0	100%	1.0
Topsmelt Larval Survival:	100%	1.0	100%	1.0	100%	1.0
Topsmelt Larval Growth:	100%	1.0	100%	1.0	100%	1.0

**Quality Control:** Reviewed and approved by:

  
Joseph A. LeMay  
Laboratory Director

# ***Abalone Larval Development Short-Term Toxicity Test***

***1. Test and Results Summary***

***2. Raw Data***

***3. Statistical Analyses***

# ABALONE LARVAL DEVELOPMENT SHORT-TERM TOXICITY TEST



Lab No.: A-05012603-001/003  
Client/ID: Del Mar IOA1453-01/03

Date tested: 01/26/05 - 01/28/05

## TEST SUMMARY

Species: *Haliotis rufescens*.

Protocol: CSWRCB.

Test type: Static.

Test chamber: Dispo. culture dishes.

Temperature: 15 + /- 1°C.

Number of embryos per chamber: 400 (approx.).

QA/QC Batch No.: RT-050126 (ran concurrently).

Source: The Cultured Abalone.

Dilution water: Lab seawater.

Endpoints: NOEC, IC25 at 48 hrs.

Test volume: 50 ml.

Aeration: None.

Number of replicates: 5.

## RESULTS SUMMARY

Sample Concentration	Percent Normal Development
Control (Brine)	96.0%
RW1	96.6%
RW2	95.0%
RW3	96.6%
*No sample statistically significantly less than control at P = 0.05 level using Homoscedastic t-Test	

## CHRONIC TOXICITY

No statistically significant toxicity exhibited in any sample.

## QA/QC TEST ACCEPTABILITY

Parameter	Result
Average control normality $\geq 80\%$	PASS (control normality = 96.0%)
%MSD < 20%	PASS (%MSD < 1.8%)
Please see RT-050126 report for additional test acceptability criteria.	

### Abalone Larval Development Test-Proportion Normal

Start Date: 26 Jan-05 16:00	Test ID: 05012603a	Sample ID: DelMar IOA1453-01/03
End Date: 28 Jan-05 16:00	Lab ID: CAATL-Aquatic Testing Labs	Sample Type: SRW2-Industrial stormwater
Sample Date: 25 Jan-05 00:00	Protocol: MBP 90	Test Species: HR-Haliotis rufescens

Comments:

Conc-%	1	2	3	4	5
B-Control	0.9528	0.9722	0.9612	0.9533	0.9626
D-Control	0.9537	0.9612	0.9810	0.9444	0.9619
RW1	0.9626	0.9813	0.9524	0.9714	0.9619
RW2	0.9444	0.9554	0.9459	0.9340	0.9720
RW3	0.9615	0.9720	0.9554	0.9623	0.9810

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed	
			Mean	Min	Max	CV%	N		Critical	MSD
B-Control	0.9604	1.0000	1.3714	1.3519	1.4033	1.533	5			
D-Control	0.9604	1.0000	1.3732	1.3329	1.4323	2.700	5			
RW1	0.9659	1.0057	1.3872	1.3508	1.4336	2.267	5	-0.936	1.860	0.0005
RW2	0.9503	0.9895	1.3481	1.3109	1.4026	2.575	5	1.283	1.860	0.0006
RW3	0.9664	1.0062	1.3883	1.3579	1.4323	2.118	5	-1.048	1.860	0.0005

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.92111	0.868	0.67579	-0.436
Bartlett's Test indicates equal variances ( $p = 0.82$ )	0.91649	11.3449		
The control means are not significantly different ( $p = 0.93$ )	0.09592	2.30601		

#### Hypothesis Test (1-tail, 0.05)

Homoscedastic t Test indicates no significant differences

# ABALONE CHRONIC BIOASSAY



Lab No.: A-05012603-001/003  
Client ID: Del Mar IOA1453-01/03

Start Date: 01/26/2005

## WATER QUALITY READINGS

Sample	Initial Readings				Final Readings			
	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)
Brine Control	15.4	7.8	8.2	34	15.6	7.8	8.2	34
RW1	14.4	8.6	8.2	34	15.2	7.7	8.2	34
RW2	15.1	8.0	8.2	34	15.4	7.6	8.2	34
RW3	15.2	7.9	8.2	34	15.3	7.5	8.2	34

Sample as received: Chlorine: 0 mg/l; pH: 8.2; Conductivity: 2300 umho; Temp: 4 °C; DO: 7.8 mg/l; NH<sub>3</sub>-N: 0 mg/l.

Sample/Control salinities adjusted with sea salts.

Initial readings: [Signature] Date/Time: 1-26-5 1600 Final readings: [Signature] Date/Time: 1-28-5 1600

## MICROSCOPIC EXAMINATION

Beaker No.	Sample Conc.	Number Normal	Number Abnormal	Beaker No.	Sample Conc.	Number Normal	Number Abnormal
1	BC	101	5	11	RW2	102	6
2	BC	105	3	12	RW2	107	5
3	BC	99	4	13	RW2	105	6
4	BC	102	5	14	RW2	99	7
5	BC	103	4	15	RW2	104	3
6	RW1	103	4	16	RW3	100	4
7	RW1	105	2	17	RW3	104	3
8	RW1	100	5	18	RW3	107	5
9	RW1	102	3	19	RW3	102	4
10	RW1	101	4	20	RW3	103	2

Microscopic examination: Analyst: [Signature] Date: 1-29-5 Time: 0800

# ***Giant Kelp Germination and Germ Tube Growth Short-Term Toxicity Test***

- ***Test and Result Summary***
- ***Data Summary and Statistical Analysis***
- ***Raw Test Data: Water Quality &  
Test Organism Measurements***

# GIANT KELP GERMINATION AND GROWTH SHORT-TERM TOXICITY TEST



Lab No.: A-05012603-001/003  
Client/ID: Del Mar IOA1453-01/03

Date Tested: 01/26/05 - 01/28/05

## TEST SUMMARY

Species: *Macrocystis pyrifera*.

Protocol: CSWRCB.

Test type: Static.

Test chamber: 100 ml plastic petri dishes.

Temperature: 15 + /- 1°C.

Number of spores per ml: 7,500 (approx.).

QA/QC Batch No.: RT-050126 (ran concurrently).

Source: Field collected.

Dilution water: Lab seawater.

Endpoints: NOEC, IC25 at 48 hrs.

Test volume: 50 ml.

Aeration: None.

Number of replicates: 5.

## RESULTS SUMMARY

Sample Concentration	Percent Germination	Mean Germ Tube Length ( $\mu\text{m}$ )
Control (Brine)	87.9%	16.30
RW1	88.6%	16.55
RW2	88.1%	16.30
RW3	89.2%	16.75
* Statistically significantly less than control at P = 0.05 level		

## CHRONIC TOXICITY

No statistically significant toxicity exhibited in any sample.

## QA/QC TEST ACCEPTABILITY

Parameter	Result
Mean control germination $\geq 70\%$	Yes (87.9%)
Mean control germination tube length $> 10 \mu\text{m}$	Yes (16.30 $\mu\text{m}$ )
Please see RT-050126 report for additional test acceptability criteria.	



Macrocystis Germination and Growth Test-Proportion Germinated					
Start Date:	26 Jan-05 16:00	Test ID:	05012603k	Sample ID:	DelMar IOA1453-01/03
End Date:	28 Jan-05 16:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	SRW2-Industrial stormwater
Sample Date:	25 Jan-05 00:00	Protocol:	MBP 90	Test Species:	MP-Macrocystis pyrifera
Comments:					
Conc-%	1	2	3	4	5
B-Control	0.8679	0.8713	0.9223	0.8491	0.8857
D-Control	0.9048	0.8835	0.8598	0.8824	0.9029
RW1	0.9029	0.9231	0.8762	0.8585	0.8704
RW2	0.9057	0.8824	0.8952	0.8692	0.8505
RW3	0.8879	0.8911	0.9126	0.8889	0.8807

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					t-Stat	1-Tailed	
			Mean	Min	Max	CV%	N		Critical	MSD
B-Control	0.8793	0.9916	1.2178	1.1718	1.2884	3.607	5			
D-Control	0.8867	1.0000	1.2282	1.1870	1.2571	2.331	5			
RW1	0.8862	0.9995	1.2285	1.1851	1.2898	3.467	5	-0.393	1.860	0.0014
RW2	0.8806	0.9931	1.2190	1.1738	1.2586	2.735	5	-0.050	1.860	0.0011
RW3	0.8922	1.0063	1.2367	1.2182	1.2707	1.613	5	-0.879	1.860	0.0009

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.94139	0.868	0.62726	-0.1996
Bartlett's Test indicates equal variances ( $p = 0.50$ )	2.36417	11.3449		
The control means are not significantly different ( $p = 0.67$ )	0.44692	2.30601		

#### Hypothesis Test (1-tail, 0.05)

Homoscedastic t Test indicates no significant differences

### Macrocystis Germination and Growth Test-Growth-Length

Start Date: 26 Jan-05 16:00 Test ID: 05012603k Sample ID: DelMar IOA1453-01/03  
 End Date: 28 Jan-05 16:00 Lab ID: CAATL-Aquatic Testing Labs Sample Type: SRW2-Industrial stormwater  
 Sample Date: 25 Jan-05 00:00 Protocol: MBP 90 Test Species: MP-Macrocystis pyrifera  
 Comments:

Conc-%	1	2	3	4	5
B-Control	15.000	16.750	17.000	15.750	17.000
D-Control	16.500	16.000	16.000	16.750	17.000
RW1	17.750	17.000	16.500	15.500	16.000
RW2	17.000	16.500	15.750	15.250	17.000
RW3	17.250	16.500	17.250	15.750	17.000

Conc-%	Mean	N-Mean	Transform: Untransformed					t-Stat	1-Tailed	
			Mean	Min	Max	CV%	N		Critical	MSD
B-Control	16.300	0.9909	16.300	15.000	17.000	5.466	5			
D-Control	16.450	1.0000	16.450	16.000	17.000	2.719	5			
RW1	16.550	1.0061	16.550	15.500	17.750	5.276	5	-0.448	1.860	0.579
RW2	16.300	0.9909	16.300	15.250	17.000	4.777	5	0.000	1.860	0.521
RW3	16.750	1.0182	16.750	15.750	17.250	3.805	5	-0.919	1.860	0.446

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.92176	0.868	-0.3634	-1.1155
Bartlett's Test indicates equal variances ( $p = 0.92$ )	0.47779	11.3449		
The control means are not significantly different ( $p = 0.75$ )	0.33646	2.30601		

#### Hypothesis Test (1-tail, 0.05)

Homoscedastic t Test indicates no significant differences

# GIANT KELP CHRONIC BIOASSAY



Lab No.: A-05012603-001/003

Client ID: Del Mar IOA1453-01/03

Start Date: 01/26/2005

Sample	Initial Readings				Final Readings			
	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)	Temp (°C)	DO (mg/l)	pH	Salinity (o/oo)
Brine Control	15.4	7.8	8.2	34	15.7	7.7	8.2	34
RW1 100%	14.4	8.6	8.2	34	15.4	7.4	8.2	34
RW2 100%	15.1	8.0	8.2	34	15.5	7.7	8.2	34
RW3 100%	15.2	7.9	8.2	34	15.3	7.4	8.2	34

Sample/Control salinities adjusted with sea salts.

Initial readings: 1/26/05 Date/Time: 1-26-51600 Final readings: 1-28-51100 Date/Time: 1-28-51100

Sample	Rep	Total Number Counted	Number Germ.	Number Non-Germ.	Germ Tube Lengths (micrometer units)									
					1	2	3	4	5	6	7	8	9	10
Brine Control	A	106	92	14	6	7	7	6	5	6	7	5	7	4
	B	101	88	13	6	7	7	8	7	5	7	6	7	7
	C	103	95	8	8	7	7	8	6	5	7	7	6	7
	D	106	90	16	6	6	7	5	7	6	6	7	7	6
	E	105	93	12	7	6	7	7	6	8	7	6	7	7
RW1 Sample	A	103	93	10	7	6	7	8	7	7	8	8	6	7
	B	104	96	8	7	7	6	7	8	8	7	6	7	5
	C	105	92	13	7	6	5	7	8	4	8	7	7	7
	D	106	91	15	6	7	5	7	7	6	6	7	5	6
	E	108	94	14	7	8	8	7	5	5	5	6	6	7
RW2 Sample	A	106	96	10	8	7	5	7	7	6	7	8	7	6
	B	102	90	12	6	7	7	6	7	4	7	9	7	6
	C	105	94	11	7	8	7	5	4	7	7	5	6	7
	D	107	93	14	6	7	5	5	7	6	6	7	5	7
	E	107	91	16	6	6	8	7	6	7	7	8	7	6
RW3 Sample	A	107	95	12	6	7	7	5	7	8	7	7	8	7
	B	101	90	11	7	6	7	7	6	5	7	7	6	8
	C	103	94	9	7	7	8	7	6	6	7	7	8	6
	D	108	96	12	6	7	5	7	7	6	6	6	7	6
	E	109	96	13	6	7	7	6	7	7	8	8	7	5

Microscopic examination: Analyst: me Date: 1-29-05 Time: 1000

# ***Topsmelt Larvae Survival and Growth Short-Term Toxicity Test***

- ***Test and Result Summary***
- ***Data Summary and Statistical Analysis***
- ***Raw Test Data: Water Quality &  
Test Organism Measurements***

# TOPSMELT LARVAE SURVIVAL AND GROWTH SHORT-TERM TOXICITY TEST



Lab No.: A-05012603  
Client/ID: Del Mar IOA1453-01/03

Date Tested: 01/26/05 - 02/02/05

## TEST SUMMARY

Species: *Atherinops affinis*.  
Test type: Static renewal (90% daily).  
Age: 9 days (9-15 days).  
Test chamber size: 600 ml.  
Number of larvae per chamber: 5.  
Temperature: 20 + /- 1°C.  
Salinity: 33+ /-2 o/oo.  
QA/QC Batch No.: RT-050126 (ran concurrently).

Source: Aquatic BioSystems.  
Endpoints: NOEC.  
Food: 40 b.s. nauplii per larvae 2X daily.  
Test solution volume: 200 ml.  
Number of replicates: 5.  
Photoperiod: 16hr light / 8hr dark.  
Dil. water: Laboratory sea water.  
Protocol: EPA/600/R-95/136.

## RESULTS SUMMARY

Sample	Percent Survival	Mean Weight of Larvae
Control	100%	1.304 mg
RW1	100%	1.408 mg
RW2	100%	1.274 mg
RW3	100%	1.192 mg
Note: Sample not statistically significantly less than control for either endpoint.		

## CHRONIC TOXICITY

No statistically significant toxicity exhibited in any sample.

## QA/QC TEST ACCEPTABILITY

Parameter	Result
Average control survival $\geq 80\%$	PASS (100%)
Average dry weight of control $\geq 0.85$ mg (when starting with 9 day old larvae)	PASS (average control dry weight = 1.304 mg)
Please see RT-050126 report for additional QA information	

Larval Fish Growth and Survival Test-7 Day Survival					
Start Date:	26 Jan-05 15:00	Test ID:	05012603t	Sample ID:	IOA1453-01/03
End Date:	02 Feb-05 14:00	Lab ID:	CAATL-Aquatic Testing Labs	Sample Type:	EFF2-Industrial
Sample Date:	25 Jan-05 00:00	Protocol:	EPAM 87-EPA Marine	Test Species:	AA-Atherinops affinis
Comments:					
Conc-%	1	2	3	4	5
B-Control	1.0000	1.0000	1.0000	1.0000	1.0000
D-Control	1.0000	1.0000	1.0000	1.0000	1.0000
RW1	1.0000	1.0000	1.0000	1.0000	1.0000
RW2	1.0000	1.0000	1.0000	1.0000	1.0000
RW3	1.0000	1.0000	1.0000	1.0000	1.0000

Conc-%	Mean	N-Mean	Transform: Arcsin Square Root					Rank Sum	1-Tailed Critical
			Mean	Min	Max	CV%	N		
B-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	5		
D-Control	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	5		
RW1	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	5	27.50	17.00
RW2	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	5	27.50	17.00
RW3	1.0000	1.0000	1.3453	1.3453	1.3453	0.000	5	27.50	17.00

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	1	0.868		
Equality of variance cannot be confirmed				
The control means are not significantly different ( $p = 1.00$ )	0	2.30601		
<b>Hypothesis Test (1-tail, 0.05)</b>				
Steel's Many-One Rank Test indicates no significant differences				

### Larval Fish Growth and Survival Test-BIOMASS

Start Date: 26 Jan-05 15:00	Test ID: 05012603t	Sample ID: IOA1453-01/03
End Date: 02 Feb-05 14:00	Lab ID: CAATL-Aquatic Testing Labs	Sample Type: EFF2-Industrial
Sample Date: 25 Jan-05 00:00	Protocol: EPAM 87-EPA Marine	Test Species: AA-Atherinops affinis
Comments:		

Conc-%	1	2	3	4	5
B-Control	1.3820	1.4040	1.3860	1.1100	1.2380
D-Control	1.1580	0.9780	1.2300	1.1980	1.2420
RW1	1.3060	1.6980	1.4380	1.1680	1.4280
RW2	1.2140	1.3620	1.3200	1.4400	1.0340
RW3	1.1460	1.4340	1.1560	1.3380	0.8880

Conc-%	Mean	N-Mean	Transform: Untransformed					t-Stat	1-Tailed	
			Mean	Min	Max	CV%	N		Critical	MSD
B-Control	1.3040	1.1230	1.3040	1.1100	1.4040	9.761	5			
D-Control	1.1612	1.0000	1.1612	0.9780	1.2420	9.254	5			
RW1	1.4076	1.2122	1.4076	1.1680	1.6980	13.913	5	-0.992	1.860	0.0203
RW2	1.2740	1.0971	1.2740	1.0340	1.4400	12.325	5	0.332	1.860	0.0152
RW3	1.1924	1.0269	1.1924	0.8880	1.4340	17.577	5	1.018	1.860	0.0224

Auxiliary Tests	Statistic	Critical	Skew	Kurt
Shapiro-Wilk's Test indicates normal distribution ( $p > 0.01$ )	0.97351	0.868	-0.2199	-0.45
Bartlett's Test indicates equal variances ( $p = 0.79$ )	1.04545	11.3449		
The control means are not significantly different ( $p = 0.09$ )	1.91692	2.30601		

#### Hypothesis Test (1-tail, 0.05)

Homoscedastic t Test indicates no significant differences

# TOPSMELT CHRONIC BIOASSAY

## Survival and Growth Raw Data Sheet



Lab: A-05012603-001/003

Start Date: 01/26/2005

Client: Del Mar IOA1453-01/03

Sample	Rep	Number of Live Larvae / Day							Final Results		Dry Weight (mg)	
		1	2	3	4	5	6	7	# Tested	# Dead	Total Wt.	Tare Wt.
Control	A	5	5	5	5	5	5	5	5	0	441.34	434.43
	B	5	5	5	5	5	5	5	5	0	440.71	433.69
	C	5	5	5	5	5	5	5	5	0	443.76	436.83
	D	5	5	5	5	5	5	5	5	0	437.49	431.44
	E	5	5	5	5	5	5	5	5	0	434.52	428.33
RW1 100%	A	5	5	5	5	5	5	5	5	0	439.26	432.73
	B	5	5	5	5	5	5	5	5	0	441.34	432.85
	C	5	5	5	5	5	5	5	5	0	440.77	433.58
	D	5	5	5	5	5	5	5	5	0	441.98	436.14
	E	5	5	5	5	5	5	5	5	0	448.70	441.56
RW2 100%	A	5	5	5	5	5	5	5	5	0	443.44	437.37
	B	5	5	5	5	5	5	5	5	0	440.42	433.61
	C	5	5	5	5	5	5	5	5	0	437.30	430.70
	D	5	5	5	5	5	5	5	5	0	437.30	430.10
	E	5	5	5	5	5	5	5	5	0	439.42	434.25
RW3 100%	A	5	5	5	5	5	5	5	5	0	434.11	428.38
	B	5	5	5	5	5	5	5	5	0	438.68	431.51
	C	5	5	5	5	5	5	5	5	0	440.11	434.33
	D	5	5	5	5	5	5	5	5	0	444.54	437.85
	E	5	5	5	5	5	5	5	5	0	440.64	436.20

Comments:

blank 435.15 435.23



# TOPSMELT CHRONIC BIOASSAY

## Water Chemistries Raw Data Sheet



Lab No.: A-05012603-001/003  
Client: Del Mar IOA1453-01/03

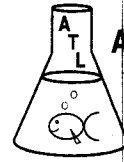
Start Date: 01/26/2005

		DAY 1		DAY 2		DAY 3		DAY 4		DAY 5		DAY 6		DAY 7	
		0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr	0 hr	24hr
Analyst Initials:		<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>	<i>LM</i>
Time of Readings:		1500	1400	1400	1400	1400	1500	1500	1400	1400	1430	1430	1330	1330	1400
Brine Control	DO	8.3	6.5	7.6	6.9	7.7	6.8	7.7	6.2	7.3	6.3	7.0	<del>6.8</del>	7.9	6.3
	pH	8.3	7.9	8.1	7.9	8.0	7.9	8.0	7.9	8.0	8.0	8.0	7.7	8.0	7.8
	Temp	20.7	20.1	21.0	20.1	21.0	20.4	20.8	19.7	20.3	19.7	20.2	20.2	20.8	19.8
	Sal.	33	33	33	33	33	33	33	33	33	33	33	33	33	33
RW1 100%	DO	8.8	6.8	7.6	7.0	7.6	6.9	7.2	6.2	7.2	6.2	6.5	7.3	7.3	6.2
	pH	8.3	8.0	8.2	8.0	8.2	8.1	8.2	8.1	8.2	8.1	8.1	7.9	8.2	8.0
	Temp	20.7	20.2	20.2	20.2	20.0	20.5	20.0	19.8	20.4	19.8	20.0	20.2	20.0	19.8
	Sal.	33	33	33	33	33	33	33	33	33	33	33	33	33	33
RW2 100%	DO	8.7	6.9	7.5	7.1	7.7	7.1	7.3	6.2	7.3	6.3	6.9	7.3	7.5	6.2
	pH	8.3	8.1	8.2	8.0	8.2	8.1	8.2	8.1	8.2	8.1	8.2	8.0	8.3	8.0
	Temp	20.8	20.2	20.3	20.2	20.0	20.4	20.0	19.8	20.3	19.8	19.7	20.2	20.0	19.9
	Sal.	33	33	33	33	33	33	33	33	33	33	33	33	33	33
RW3 100%	DO	8.9	6.9	7.9	7.1	7.8	7.1	7.4	7.0	7.3	6.5	7.0	7.1	7.5	6.1
	pH	8.1	8.0	8.0	8.0	8.1	8.1	8.2	8.1	8.2	8.0	8.2	8.0	8.3	8.0
	Temp	20.6	20.2	20.3	20.2	20.0	20.4	20.1	20.0	20.3	19.8	19.7	20.2	20.0	19.9
	Sal.	33	33	33	33	33	33	33	33	33	33	33	33	33	33

Additional Parameters	RW1	RW2	RW3
Salinity	28	28	28
Chlorine (TRC)	0	0	0
Ammonia (NH <sub>3</sub> -N)	—	—	—

Comments:

Sample/control salinities adjusted with sea salts.



**Aquatic  
Testing  
Laboratories**

# ***CHAIN OF CUSTODY***



17461 Derian Ave. Suite 100, Irvine, CA 92614 Ph (949) 261-1022 Fax (949) 261-1228  
1014 E. Cooley Dr., Suite A, Colton, CA 92324 Ph (909) 370-4667 Fax (909) 370-1046  
9484 Chesapeake Drive, Suite 805, San Diego, CA 92123 Ph (619) 505-9596 Fax (619) 505-9689  
9830 South 51st Street, Suite B-120, Phoenix, AZ 85044 Ph (480) 785-0043 Fax (480) 785-0851  
2520 E. Sunset Rd., Suite #3, Las Vegas, NV 89120 Ph (702) 798-3620 Fax (702) 798-3621

## SUBCONTRACT ORDER - PROJECT # IOA1453

### SENDING LABORATORY:

Del Mar Analytical, Irvine  
17461 Derian Avenue. Suite 100  
Irvine, CA 92614  
Phone: (949) 261-1022  
Fax: (949) 261-1228  
Project Manager: Patty Mata

### RECEIVING LABORATORY:

Aquatic Testing Laboratories-SUB  
4350 Transport Street, Unit 107  
Ventura, CA 93003  
Phone : (805) 650-0546  
Fax: (805) 650-0756

Standard TAT is requested unless specific due date is requested => Due Date: \_\_\_\_\_ Initials: \_\_\_\_\_

Analysis	Expiration	Comments
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Sample ID: IOA1453-01 Water Sampled: 01/25/05 11:00

Bioassay-7 dy Chrnac 01/26/05 23:00 Sub ATL. 100%, 3 species saltwater

#### Containers Supplied:

1 gal Poly (IOA1453-01H)  
2.5 gal Poly (IOA1453-01I)  
2.5 gal Poly (IOA1453-01J)

Sample ID: IOA1453-02 Water Sampled: 01/25/05 11:15

Bioassay-7 dy Chrnac 01/26/05 23:15 Sub ATL. 100%, 3 species saltwater

#### Containers Supplied:

1 gal Poly (IOA1453-02H)  
2.5 gal Poly (IOA1453-02I)  
2.5 gal Poly (IOA1453-02J)

Sample ID: IOA1453-03 Water Sampled: 01/25/05 11:40

Bioassay-7 dy Chrnac 01/26/05 23:40 Sub ATL. 100%, 3 species saltwater

#### Containers Supplied:

1 gal Poly (IOA1453-03H)  
5 gal Poly (IOA1453-03I)

### SAMPLE INTEGRITY:

All containers intact: ☒ Yes ☐ No  
Custody Seals Present: ☐ Yes ☒ No

Sample labels/COC agree: ☒ Yes ☐ No  
Samples Preserved Properly: ☒ Yes ☐ No

Samples Received On Ice: ☒ Yes ☐ No  
Samples Received at (temp): 4°C

Released By: [Signature] Date: 1/26/05 Time: 07:45

Received By: [Signature] Date: 1/26/05 Time: 07:45

Released By: [Signature] Date: 1/26/05 Time: 12:10

Received By: [Signature] Date: 1-26-05 Time: 12:10