

# LABORATORY REPORT



*"dedicated to providing quality aquatic toxicity testing"*

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

**Date:** August 14, 2014  
**Client:** Yolo County District Attorney  
301 Second Street  
Woodland, CA 95695  
Attn: Heidi D'Agostino

**Laboratory No.:** A-14080902-001

**Sample Control:** The samples were received by ATL in new and unopened packaging, with the chain of custody record attached.

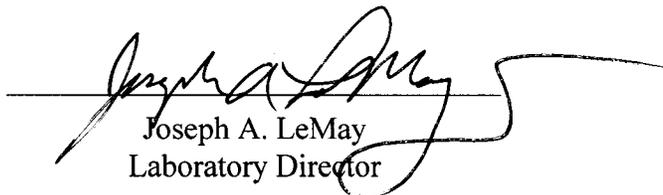
Date Received: 8/09/14  
Date Tested: 8/10/14 to 08/14/14

**Sample Analysis:** The following analyses were performed on your sample:  
CCR Title 22 Fathead Minnow Hazardous Waste Screen Bioassay (Polisini & Miller 1988).  
Attached are the test data generated from the analysis of your sample. All testing was conducted under the direct supervision of Joseph A. LeMay.

## Result Summary:

<u>Sample ID.</u>	<u>Results</u>
136B – Kiwi Scuff Cover – Black	PASS (LC50 > 750 mg/l)

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

  
Joseph A. LeMay  
Laboratory Director

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY



Lab No.: A14080902-001

Client/ID: Yolo Co. 13613 Kin: Scott cover - Black

### TEST SUMMARY

Species: *Pimephales promelas*.  
 Fish weight (gm): av: 0.33 ; min: 0.29 ; max: 0.39.  
 Reference Toxicant: SDS conducted per batch.  
 Test chamber volume: 10 liters.  
 Temperature: 20 +/- 2°C.  
 Aeration: none, unless D.O. drops below 5.0 mg/l.  
 Number of replicates: 2.  
 Dilution water: Soft reconstituted water (40-48 mg/l CaCO<sub>3</sub>).

Source: Thomas Fish.  
 Regulations: CCR Title 22.  
 Test Protocol: California F&G/DHS 1988.  
 Endpoints: Survival at 96 hrs.  
 Test type: Static.  
 Feeding: None.  
 Number of fish per chamber: 10.  
 Photoperiod: 16/8 hrs light/dark.

### TEST DATA

	INITIAL				24 Hr				48 Hr				72 Hr				96 Hr			
Date/Time:	<u>8-10-14 1130</u>				<u>8-11-14 1100</u>				<u>8-12-14 1100</u>				<u>8-13-14 1045</u>				<u>8-14-14 1100</u>			
Analyst:	<u>Z</u>																			
	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D	°C	DO	pH	# D
Control A	22.4	8.1	8.0	0	20.4	8.8	8.0	0	20.5	7.8	7.9	0	20.6	7.4	7.8	0	20.6	8.1	8.0	0
Control B	22.5	8.0	7.9	0	20.4	8.5	8.0	0	20.6	8.1	7.9	0	20.7	8.1	7.8	0	20.7	7.9	7.9	0
400 mg/l A	22.5	8.2	8.0	0	20.4	8.6	8.0	0	20.6	8.2	7.8	0	20.7	8.1	7.8	0	20.6	8.1	8.0	0
400 mg/l B	22.5	8.2	8.0	0	20.3	8.5	8.0	0	20.7	8.1	7.8	0	20.6	8.1	7.9	0	20.7	8.0	7.9	1
750 mg/l A	20.5	8.1	8.0	0	20.3	8.6	8.0	0	20.7	8.1	7.8	0	20.6	8.1	7.7	0	20.7	8.2	7.9	2
750 mg/l B	20.5	8.0	8.1	0	20.2	8.5	8.0	0	20.7	8.1	7.8	0	20.6	8.0	7.7	0	20.7	8.1	7.9	2

Comments: Extraction method: Mechanical shaking .  
 None (aqueous solution) NA.  
 Dissolved Oxygen (DO) readings in mg/l O<sub>2</sub>. Test Aerated:  / No

	CONTROL		HIGH CONCENTRATION		Total Number Dead	
	Alkalinity	Hardness	Alkalinity	Hardness	Control	
Initial	31 mg/l CaCO <sub>3</sub>	46 mg/l CaCO <sub>3</sub>	31 mg/l CaCO <sub>3</sub>	47 mg/l CaCO <sub>3</sub>	0	/20
Final	31 mg/l CaCO <sub>3</sub>	48 mg/l CaCO <sub>3</sub>	34 mg/l CaCO <sub>3</sub>	49 mg/l CaCO <sub>3</sub>	1	/20
					5	/20

RESULTS (the checked result applies based on fish survival rates)		
<input checked="" type="checkbox"/>	<b>PASSED</b>	LC50 > 750 mg/l (<40% dead in 750 mg/l conc.)
<u>NA</u>	<b>FAILED</b>	≥40% dead in 750 mg/l (close to passing - definitive test recommended)
<u>NA</u>	<b>FAILED</b>	LC50 < 400 mg/l (>60% dead in 400 mg/l conc.)

