# LABORATORY REPORT

Aquatic Testing Laboratories

*"dedicated to providing quality aquatic toxicity testing"*

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

**Date:** January 8, 2014

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

**Laboratory No.:** A-13123001-032/042
**Client Sample No.:** 52A - 62A

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

Date Received: 12/30/13
Date Tested: 01/04/14 to 01/08/14

**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:**

| Sample ID. | Results |
|---|---|
| 52A- Sun Sations Auto Dish Gel | FAIL (LC50 < 400 mg/l) |
| 53A- Tide LQ Pods Ocean Mist | FAIL (LC50 < 400 mg/l) |
| 54A- Lysol Toilet Bowl Cleaner | FAIL (LC50 < 400 mg/l) |
| 55A- Palmolive Original | FAIL (LC50 < 400 mg/l) |
| 56A- Clorox Toilet Bowl Cleaner Blch G | FAIL (LC50 < 400 mg/l) |
| 57A- Clorox Toilet Bowl Green Works | FAIL (LC50 < 400 mg/l) |
| 58A- Drano Professional Strength | FAIL (LC50 < 400 mg/l) |
| 59A- Snuggle Blue Sparkle | FAIL (LC50 < 400 mg/l) |
| 60A- All Oxi-Active Stainlifters Water | FAIL (LC50 < 400 mg/l) |
| 61A- Surf Aloha Splash | FAIL (LC50 < 400 mg/l) |
| 62A- Sun Triple Clean Free & Clear | FAIL (LC50 < 400 mg/l) |

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

Joseph A. LeMay
Laboratory Director

This report pertains only to the samples investigated and does not necessarily apply to other apparently identical or similar materials. This report is submitted for the exclusive use of the client to whom it is addressed. Any reproduction of this report or use of the Laboratory's name for advertising or publicity purpose without authorization is prohibited.

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-032

**Client/ID:** Yolo county 2261324025
52A - Sun Solutions Auto Disl Gd

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23; min: 0.21; max: 0.25.
Reference Toxicant: SDS conducted monthly.
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.0 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.2 | 8.5* | 19.6 | 8.0 | 8.3 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 400 mg/l B | 19.7 | 8.3 | 8.5* | 19.6 | 7.9 | 8.4 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l A | 19.6 | 8.2 | 8.5* | 19.7 | 7.7 | 8.3 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l B | 19.6 | 8.3 | 8.5* | 19.6 | 7.9 | 8.4 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| pH Control | 19.6 | 8.2 | 8.5* | 19.7 | 8.2 | 8.4 | 0 | 19.2 | 6.4 | 8.2 | 0 | 19.0 | 6.0 | 8.2 | 0 | 19.2 | 5.7 | 8.5 | 0 |

Comments: Extraction method: Mechanical shaking ✓. None (aqueous solution) ✓.
* pH adjusted to 8.5 - Fish dead within initial hour - initial pH 10.2

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / (No) pH Control adjusted with HCl/NaOH to pH similar to sample tanks

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 82 mg/l $CaCO_3$ | 39 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | – mg/l $CaCO_3$ | – mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
(the checked result applies based on fish survival rates )

| | | |
|---|---|---|
| ✓ | PASSED | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| ✓ | FAILED | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | FAILED | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A1312 3001 - 033

**Client/ID:** Yolo county 3700050962
53A - Tidal LQ Pools Ocean Mist

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 12:00 | | | 1-5-14 12:00 | | | | 1-6-14 1130 | | | | 1-7-14 11:00 | | | | 1-8-14 11:00 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.6 | 8.1 | 8.7 | 19.5 | 7.4 | 7.8 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.7 | 8.0 | 8.3 | 19.5 | 7.5 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.7 | 8.1 | 8.3 | 19.5 | 7.5 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.2 | 8.3 | 19.6 | 7.2 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Extraction method: Mechanical shaking ✓. -Fish dead within the initial hour
None (aqueous solution) ✓

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 32 mg/l $CaCO_3$ | 44 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | — mg/l $CaCO_3$ | — mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| ✓ | **PASSED** | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| ✓ | **FAILED** | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | **FAILED** | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-034

**Client/ID:** Yolo county 1920002522
549 - Lysol Toilet Bowl Cleaner

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23; min: 0.21; max: 0.25.
Reference Toxicant: SDS conducted monthly.
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | Z | | | Z | | | | Z | | | | Z | | | | Z | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.5 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.3 | 5.5* | 19.6 | 7.8 | 5.6 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.6 | 8.4 | 5.5* | 19.6 | 7.7 | 5.5 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.6 | 8.5 | 5.5* | 19.5 | 7.8 | 5.6 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.6 | 5.5* | 19.5 | 7.8 | 5.6 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| pH Control | 19.7 | 8.2 | 5.5* | 19.5 | 7.9 | 5.6 | 0 | 19.3 | 7.9 | 5.7 | 0 | 19.1 | 6.8 | 5.7 | 0 | 19.2 | 5.7 | 5.8 | 0 |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
*pH adjusted to 5.5 - Fish dead within initial pH 2.9 initial hour

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No pH Control adjusted with HCl/NaOH to pH similar to sample tanks

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 25 mg/l $CaCO_3$ | 44 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | - mg/l $CaCO_3$ | - mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
(the checked result applies based on fish survival rates )

| | | |
|---|---|---|
| ✓ | PASSED | LC50 > 750 mg/l (<40% dead in 750 mg/l conc.) |
| ✓ | FAILED | ≥40% dead in 750 mg/l (close to passing - definitive test recommended) |
| ✓ | FAILED | LC50 < 400 mg/l (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-035

**Client/ID:** Yolo County 3500046112
SFA - Palm olive Original

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.5 | 7.6 | 0 | 19.6 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.5 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.6 | 8.2 | 7.3 | 19.5 | 7.8 | 7.5 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.7 | 8.1 | 7.4 | 19.5 | 7.9 | 7.4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.8 | 8.0 | 7.5 | 19.5 | 7.8 | 7.5 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.2 | 7.6 | 19.6 | 7.7 | 7.6 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

- Fish dead within initial hour

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 21 mg/l $CaCO_3$ | 46 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | — mg/l $CaCO_3$ | - mg/l $CaCO_3$ |

| Total Number Dead | |
|---|---|
| Control | 0 /20 |
| 400 mg/l | 20 /20 |
| 750 mg/l | 20 /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| NA | **PASSED** | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| NA | **FAILED** | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | **FAILED** | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-036

**Client/ID:** Yolo County 4460030619
564 - Clorox Toilet Bowl Cleaner BKLG

## TEST SUMMARY

Species: ***Pimephales promelas.***
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.2 | 7.8 | 19.6 | 7.8 | 8.0 | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| 400 mg/l B | 19.6 | 8.3 | 7.9 | 19.6 | 7.8 | 8.1 | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| 750 mg/l A | 19.6 | 8.2 | 7.9 | 19.7 | 7.7 | 8.1 | 10 | — | — | — | — | — | — | — | — | — | — | — | — |
| 750 mg/l B | 19.7 | 8.3 | 7.8 | 19.7 | 7.8 | 8.0 | 10 | — | — | — | — | — | — | — | — | — | — | — | — |

Comments: Extraction method: Mechanical shaking ✓. - Fish dead within initial hour
None (aqueous solution) ✓.
Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 91 mg/l $CaCO_3$ | 44 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | — mg/l $CaCO_3$ | — mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| NA | **PASSED** | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| NA | **FAILED** | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | **FAILED** | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A131230001-037

**Client/ID:** Yolo county 4460000451
53A - Clorox Toilet Bowl Cleaner - Works

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.6 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.6 | 8.2 | 7.6 | 19.5 | 7.7 | 7.7 | 9 | 19.3 | 6.9 | 7.8 | 1 | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.7 | 8.3 | 7.7 | 19.5 | 7.8 | 7.8 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.1 | 8.2 | 7.7 | 19.5 | 7.4 | 7.7 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.3 | 7.8 | 19.6 | 7.7 | 7.7 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 21 mg/l $CaCO_3$ | 48 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | - mg/l $CaCO_3$ | - mg/l $CaCO_3$ |

| Total Number Dead | |
|---|---|
| Control | 0 /20 |
| 400 mg/l | 20 /20 |
| 750 mg/l | 20 /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| | PASSED | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| | FAILED | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | FAILED | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-038

**Client/ID:** Yolo county 1980040109
58A - Drano Professional Strength

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23; min: 0.21; max: 0.25.
Reference Toxicant: SDS conducted monthly.
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 $CaCO_3$).

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:** | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| **Analyst:** | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.1 | 8.5* | 19.5 | 8.1 | 8.4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.6 | 8.7 | 8.5* | 19.6 | 8.0 | 8.5 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.6 | 8.3 | 8.5* | 19.6 | 8.1 | 8.4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.2 | 8.5* | 19.6 | 8.0 | 8.4 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| pH Control | 19.6 | 8.2 | 8.5* | 19.7 | 8.2 | 8.4 | 0 | 19.2 | 6.9 | 8.2 | 0 | 19.0 | 6.0 | 8.2 | 0 | 19.2 | 5.7 | 8.5 | 0 |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) –.

*pH adjusted to 8.5 - Fish dead within initial hour
- initial pH 10.2

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No pH Control adjusted with HCl/NaOH to pH similar to sample tanks

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| **Initial** | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 78 mg/l $CaCO_3$ | 51 mg/l $CaCO_3$ |
| **Final** | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | – mg/l $CaCO_3$ | – mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| ✓ | **PASSED** | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| ✓ | **FAILED** | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | **FAILED** | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A/3123001-039

**Client/ID:** Yolo county 7261345171
59A - Snuggle Blue Spartan

## TEST SUMMARY

Species: ***Pimephales promelas.***
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.6 | 8.7 | 8.1 | 19.6 | 7.7 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 400 mg/l B | 19.6 | 8.7 | 8.0 | 19.6 | 7.8 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l A | 19.6 | 8.7 | 7.9 | 19.7 | 7.8 | 8.0 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |
| 750 mg/l B | 19.7 | 8.3 | 8.0 | 19.6 | 7.7 | 7.9 | 10 | - | - | - | - | - | - | - | - | - | - | - | - |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
- Fish dead within initial hour
Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 29 mg/l $CaCO_3$ | 51 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | - mg/l $CaCO_3$ | - mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| NA | **PASSED** | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| NA | **FAILED** | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | **FAILED** | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-040

**Client/ID:** Yolo County 7261345497
60A - All Oxi-Active Stain lifters water

## TEST SUMMARY

Species: ***Pimephales promelas.***
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.1 | 8.0 | 19.7 | 7.9 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 400 mg/l B | 19.7 | 8.2 | 8.1 | 19.6 | 7.8 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l A | 19.7 | 8.3 | 8.0 | 19.6 | 7.7 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l B | 19.6 | 8.4 | 8.0 | 19.7 | 7.6 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
- Fish dead within initial hour

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 30 mg/l $CaCO_3$ | 41 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | – mg/l $CaCO_3$ | – mg/l $CaCO_3$ |

| Total Number Dead | |
|---|---|
| Control | 0 /20 |
| 400 mg/l | 20 /20 |
| 750 mg/l | 20 /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| NA | PASSED | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| NA | FAILED | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | FAILED | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001 - 041

**Client/ID:** Yolo county 7261371062 1
61A - Surf Aloha Splash

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23 ; min: 0.21 ; max: 0.25 .
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 $CaCO_3$).

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: | 1-4-14 1200 | | | 1-5-14 1200 | | | | 1-6-14 1130 | | | | 1-7-14 1100 | | | | 1-8-14 1100 | | | |
| Analyst: | Z | | | Z | | | | ML | | | | Z | | | | Z | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.3 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.6 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.6 | 8.2 | 8.1 | 19.5 | 7.8 | 8.1 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 400 mg/l B | 19.7 | 8.3 | 8.0 | 19.6 | 7.7 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l A | 19.7 | 8.3 | 8.0 | 19.6 | 7.6 | 8.0 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l B | 19.7 | 8.4 | 8.0 | 19.6 | 7.7 | 8.1 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |

Comments: Extraction method: Mechanical shaking ✓.
None (aqueous solution) ✓.
- Fish dead within initial hour
Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 41 mg/l $CaCO_3$ | 43 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | – mg/l $CaCO_3$ | – mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
**(the checked result applies based on fish survival rates )**

| | | |
|---|---|---|
| NA | PASSED | **LC50 > 750 mg/l** (<40% dead in 750 mg/l conc.) |
| NA | FAILED | **≥40% dead in 750 mg/l** (close to passing - definitive test recommended) |
| ✓ | FAILED | **LC50 < 400 mg/l** (>60% dead in 400 mg/l conc.) |

# FATHEAD MINNOW HAZARDOUS WASTE SCREEN BIOASSAY

Aquatic Testing Laboratories

**Lab No.:** A13123001-042

**Client/ID:** Yolo county 7261370 8130
62A Sum Triple Clean Free+Clear

## TEST SUMMARY

Species: ***Pimephales promelas***.
Fish weight (gm): av: 0.23; min: 0.21; max: 0.25.
Reference Toxicant: SDS conducted monthly.
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 $CaCO_3$).

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: | 1-4-14 12:00 | | | 1-5-14 12:00 | | | | 1-6-14 1130 | | | | 1-7-14 11:00 | | | | 1-8-14 1100 | | | |
| Analyst: | | | | | | | | | | | | | | | | | | | |
| | °C | DO | pH | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D | °C | DO | pH | # D |
| Control A | 19.7 | 8.2 | 8.0 | 19.7 | 8.0 | 8.1 | 0 | 19.2 | 6.8 | 7.9 | 0 | 19.0 | 6.0 | 7.8 | 0 | 19.4 | 4.7 | 7.6 | 0 |
| Control B | 19.6 | 8.4 | 8.0 | 19.8 | 8.1 | 8.0 | 0 | 19.3 | 6.8 | 7.9 | 0 | 19.1 | 6.2 | 7.9 | 0 | 19.5 | 4.6 | 7.5 | 0 |
| 400 mg/l A | 19.7 | 8.3 | 8.5* | 19.6 | 7.8 | 8.4 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 400 mg/l B | 19.6 | 8.4 | 8.5* | 19.6 | 7.7 | 8.5 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l A | 19.6 | 8.4 | 8.5* | 19.6 | 7.8 | 8.5 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| 750 mg/l B | 19.6 | 8.3 | 8.5* | 19.5 | 7.8 | 8.4 | 10 | – | – | – | – | – | – | – | – | – | – | – | – |
| pH Control | 19.6 | 8.2 | 8.5* | 19.7 | 8.2 | 8.4 | 0 | 19.2 | 6.9 | 8.2 | 0 | 19.0 | 6.0 | 8.2 | 0 | 19.2 | 5.7 | 8.5 | 0 |

Comments: Extraction method: Mechanical shaking ✓
None (aqueous solution) ✓

* pH adjusted to 8.5 - fish dead within initial hour
- initial pH 9.9

Dissolved Oxygen (DO) readings in mg/l $O_2$. Test Aerated: Yes / No pH Control adjusted with HCl/NaOH to pH similar to sample tanks

| | CONTROL | | HIGH CONCENTRATION | |
|---|---|---|---|---|
| | Alkalinity | Hardness | Alkalinity | Hardness |
| Initial | 31 mg/l $CaCO_3$ | 45 mg/l $CaCO_3$ | 31 mg/l $CaCO_3$ | 48 mg/l $CaCO_3$ |
| Final | 31 mg/l $CaCO_3$ | 47 mg/l $CaCO_3$ | – mg/l $CaCO_3$ | – mg/l $CaCO_3$ |

| Total Number Dead | | |
|---|---|---|
| Control | 0 | /20 |
| 400 mg/l | 20 | /20 |
| 750 mg/l | 20 | /20 |

## RESULTS
(the checked result applies based on fish survival rates )

| | | |
|---|---|---|
| NA | PASSED | LC50 > 750 mg/l (<40% dead in 750 mg/l conc.) |
| NA | FAILED | ≥40% dead in 750 mg/l (close to passing - definitive test recommended) |
| ✓ | FAILED | LC50 < 400 mg/l (>60% dead in 400 mg/l conc.) |

# OFFICE OF THE DISTRICT ATTORNEY
## SAN JOAQUIN COUNTY

222 E. Weber Avenue, Suite 678, Stockton, CA 95202
P.O. Box 990, Stockton, California 95201
Telephone: (209) 468-2400 Fax: (209) 468-0314

Please send results to:

Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8423

Testing Facility

Facility name: Aquatic Testing Laboratories

Facility address: 4350 Transport Street, Unit 107, Ventura, CA 93003

## CHAIN OF CUSTODY RECORD

| L1 Sample Number | Description | Manufacturer | UPC | Quantity | Main Ingredient / Or Usage / NOTES | Date sampled | Time sampled | Sample container description: Method of sampling: Composite (C) Grab (G) | Size of sample container (include units) | Type of sample container: Glass (G) Plastic (P) Metal tube (MT) VOA (V) | Evidence tape: Yes (Y) No (N) | Transported in iced cooler: Yes (Y) No (N) | Required analysis: 96-hour fish bioassay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 41A | A&H 2X LIQ LAVENDER & LINEN | | 3320009332 | 75 oz | | | | n/a | 200g (min) | P | N | N | X |
| 42A | A&H LIQ DET 2X CLEAN BURST | | 3320009470 | 150 oz | | | | n/a | 200g (min) | P | N | N | X |
| 43A | GAIN 2X ORIGINAL FRESH LIQ DETERG | | 3700012784 | 50 oz | | | | n/a | 200g (min) | P | N | N | X |
| 44A | SOFT SCRUB W/ LEMON | | 2340000865 | 24 oz | | | | n/a | 200g (min) | P | N | N | X |
| 45A | IVORY LIQUID HAND SOAP ORIGINAL | | 3700040312 | 48 oz | | | | n/a | 200g (min) | P | N | N | X |
| 46A | PALMOLIVE ULTRA PURE AND CLEAR | | 3500046106 | 25 oz | | | | n/a | 200g (min) | P | N | N | X |
| 47A | GAIN LIQUID DISH ORIGINAL SCENT | | 3700086176 | 24 oz | | | | n/a | 200g (min) | P | N | N | X |
| 48A | SSL LIQUID DISHWASH LEMON | | 71754411703 | 40 oz | | | | n/a | 200g (min) | P | N | N | X |
| 49A | SUN 2X LQ TROPICAL BREEZE | | 7261370896 | 188 oz, 125 loads | | | | n/a | 200g (min) | P | N | N | X |
| 50A | SUN BURST CLEAN & FRESH 2X | | 7261370809 | 45.4 oz | | | | n/a | 200g (min) | P | N | N | X |
| 51A | SUN LEMON LIQUID DISH SOAP | | 7261316008 | 20 oz | | | | n/a | 200g (min) | P | N | N | X |
| 52A | SUN SATIONS AUTO DISH GEL | | 7261324025 | 75 oz | | | | n/a | 200g (min) | P | N | N | X |
| 53A | TIDE LQ PODS OCEAN MIST | | 3700050962 | 27 oz, 31 ct | | | | n/a | 200g (min) | P | N | N | X |
| 54A | LYSOL TOILET BOWL CLEANER | | 1920002522 | 24 oz | | | | n/a | 200g (min) | P | N | N | X |
| 55A | PALMOLIVE ORIGINAL | | 3500046112 | 25 oz | | | | n/a | 200g (min) | P | N | N | X |
| 56A | CLOROX TOILET BOWL CLEANER BLCH G | | 4460030619 | 24 oz | | | | n/a | 200g (min) | P | N | N | X |
| 57A | CLOROX TOILET BOWL GREEN WORKS | | 4460000451 | 24 oz | | | | n/a | 200g (min) | P | N | N | X |
| 58A | DRANO PROFESSIONAL STRENGTH | | 1980040109 | 80 oz | | | | n/a | 200g (min) | P | N | N | X |
| 59A | SNUGGLE BLUE SPARKEL | | 7261345171 | 64 oz, 26 loads | | | | n/a | 200g (min) | P | N | N | X |
| 60A | ALL OXI-ACTIVE STAINLIFTERS WATER | | 7261345497 | 150 oz | | | | n/a | 200g (min) | P | N | N | X |

**NOTE:** All Samples were taken at 222 E. Weber Ave., Room 678, Stockton, CA 95202

| | Name | Title | Date | Time | Remarks |
|---|---|---|---|---|---|
| Relinquished by: | Heidi D'Agostino | YCOA | 12/30/13 | 1030 | |
| Received by: | | ATL | 12-30-13 | 1030 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

# OFFICE OF THE DISTRICT ATTORNEY
## SAN JOAQUIN COUNTY

222 E. Weber Avenue, Suite 678, Stockton, CA 95202
P.O. Box 990, Stockton, California 95201
Telephone: (209) 468-2400 Fax: (209) 468-0314

Please send results to:

Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8423

Testing Facility

Facility name: Aquatic Testing Laboratories

Facility address: 4350 Transport Street, Unit 107, Ventura, CA 93003

## CHAIN OF CUSTODY RECORD

| L1 Sample Number | Description | Manufacturer | UPC | Strength | Main Ingredient / Or Usage / NOTES | Date sampled | Time sampled | Sample container description: Method of sampling: Composite (C) Grab (G) | Size of sample container (include units) | Type of sample container: Glass (G) Plastic (P) Metal tube (MT) VOA (V) | Evidence tape: Yes (Y) No (N) | Transported in iced cooler: Yes (Y) No (N) | Required analysis: 96-hour fish bioassay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 61A | Surf Aloha Splash | Sun Products Corp. | 072613710621 | 50 oz. | | | | n/a | 200g (min) | P | N | N | X |
| 62A | Sun Triple Clean Free & Clear | Sun Products Corp. | 072613708130 | 45.4 oz. | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |
| | | | | | | | | n/a | 200g (min) | P | N | N | X |

**NOTE:** All Samples were taken at 222 E. Weber Ave., Room 678, Stockton, CA 95202

| | Name | Title | Date | Time | Remarks |
|---|---|---|---|---|---|
| Relinquished by: | Heidi D'Agostino | YCDA | 12/30/13 | 1030 | |
| Received by: | [illegible] | ATL | 12-30-13 | 1030 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | | | | | |