# McCampbell Analytical, Inc.

*"When Quality Counts"*

# Analytical Report

**WorkOrder:** 1603359 A

**Report Created for:** Yolo County District Attorney's Office

120 W. Main Street, Suite C
Woodland, CA 95695

**Project Contact:** Heidi D'Agostino
**Project P.O.:**
**Project Name:** Fish Bioassay

**Project Received:** 03/07/2016

Analytical Report reviewed & approved for release on 06/29/2016 by:

Angela Rydelius,
Laboratory Manager

***The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.***

McCampbell Analytical, Inc.
*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# Glossary of Terms & Qualifier Definitions

**Client:** Yolo County District Attorney's Office
**Project:** Fish Bioassay
**WorkOrder:** 1603359

## Glossary Abbreviation

| | |
|---|---|
| %D | Serial Dilution Percent Difference |
| 95% Interval | 95% Confident Interval |
| DF | Dilution Factor |
| DI WET | (DISTLC) Waste Extraction Test using DI water |
| DISS | Dissolved (direct analysis of 0.45 µm filtered and acidified water sample) |
| DLT | Dilution Test (Serial Dilution) |
| DUP | Duplicate |
| EDL | Estimated Detection Limit |
| ITEF | International Toxicity Equivalence Factor |
| LCS | Laboratory Control Sample |
| MB | Method Blank |
| MB % Rec | % Recovery of Surrogate in Method Blank, if applicable |
| MDL | Method Detection Limit |
| ML | Minimum Level of Quantitation |
| MS | Matrix Spike |
| MSD | Matrix Spike Duplicate |
| N/A | Not Applicable |
| ND | Not detected at or above the indicated MDL or RL |
| NR | Data Not Reported due to matrix interference or insufficient sample amount. |
| PDS | Post Digestion Spike |
| PDSD | Post Digestion Spike Duplicate |
| PF | Prep Factor |
| RD | Relative Difference |
| RL | Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.) |
| RPD | Relative Percent Deviation |
| RRT | Relative Retention Time |
| SPK Val | Spike Value |
| SPKRef Val | Spike Reference Value |
| SPLP | Synthetic Precipitation Leachate Procedure |
| ST | Sorbent Tube |
| TCLP | Toxicity Characteristic Leachate Procedure |
| TEQ | Toxicity Equivalents |
| WET (STLC) | Waste Extraction Test (Soluble Threshold Limit Concentration) |

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# Analytical Report

**Client:** Yolo County District Attorney's Office
**Date Received:** 3/7/16 17:17
**Project:** Fish Bioassay

**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-001B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 381D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 25 mg/L | 19.5 | 19.5 | 7.46 | 7.50 | 8.90 | 8.90 | 172 | 170 | 10 | 10 | Time: | 01:45 PM |
| 50 mg/L | 19.5 | 19.5 | 7.51 | 7.50 | 8.90 | 8.90 | 170 | 170 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 19.5 | 19.5 | 7.43 | 7.42 | 8.90 | 8.90 | 170 | 169 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 19.5 | 19.5 | 7.32 | 7.28 | 9.00 | 9.00 | 171 | 171 | 10 | 10 | | |
| 400 mg/L | 19.5 | 19.5 | 7.22 | 7.20 | 9.00 | 9.00 | 172 | 173 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 25 mg/L | 20.0 | 20.0 | 7.55 | 7.53 | 8.20 | 8.20 | 184 | 177 | 10 | 10 | Time: | 10:45 AM |
| 50 mg/L | 20.0 | 20.0 | 7.50 | 7.44 | 7.90 | 7.60 | 176 | 178 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 20.0 | 20.0 | 7.43 | 7.42 | 7.60 | 7.70 | 178 | 180 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 20.0 | 20.0 | 7.48 | 7.42 | 8.10 | 8.20 | 182 | 182 | 10 | 10 | | |
| 400 mg/L | 20.0 | 20.0 | 7.43 | 7.55 | 8.20 | 8.60 | 185 | 187 | 2 | 0 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 25 mg/L | 20.1 | 20.1 | 7.48 | 7.49 | 8.10 | 8.30 | 188 | 180 | 10 | 10 | Time: | 08:30 AM |
| 50 mg/L | 20.1 | 20.1 | 7.41 | 7.38 | 7.80 | 7.30 | 178 | 180 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 20.1 | 20.1 | 7.33 | 7.32 | 7.30 | 7.50 | 179 | 181 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 20.1 | 20.1 | 7.34 | 7.36 | 7.80 | 8.00 | 184 | 184 | 10 | 10 | | |
| 400 mg/L | 20.1 | N/A | 7.30 | N/A | 7.40 | N/A | 195 | N/A | 2 | 0 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 25 mg/L | 19.7 | 19.7 | 7.32 | 7.38 | 8.10 | 8.20 | 195 | 187 | 10 | 10 | Time: | 11:40 AM |
| 50 mg/L | 19.7 | 19.7 | 7.32 | 7.27 | 8.20 | 7.40 | 184 | 185 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 19.7 | 19.7 | 7.32 | 7.33 | 7.70 | 7.90 | 182 | 185 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 19.7 | 19.7 | 7.36 | 7.34 | 8.20 | 8.20 | 188 | 188 | 10 | 10 | | |
| 400 mg/L | 19.7 | N/A | 7.20 | N/A | 7.10 | N/A | 204 | N/A | 2 | 0 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 25 mg/L | 19.0 | 19.0 | 7.40 | 7.41 | 8.10 | 8.20 | 202 | 192 | 10 | 10 | Time: | 02:20 PM |
| 50 mg/L | 19.0 | 19.0 | 7.26 | 7.33 | 7.00 | 7.40 | 188 | 190 | 10 | 10 | Analyst: | CP |
| 100 mg/L | 19.0 | 19.0 | 7.53 | 7.49 | 8.40 | 8.20 | 186 | 190 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 19.0 | 19.0 | 7.51 | 7.51 | 8.40 | 8.30 | 193 | 194 | 10 | 10 | | |
| 400 mg/L | 19.0 | N/A | 7.17 | N/A | 5.70 | N/A | 212 | N/A | 2 | 0 | | |

*(Cont.)*

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# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-001B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 381D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 400 mg/L | Control | 400 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 46 | 48 | 52 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 39 | 39 | 37 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is less than 500 mg/L, it should be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | 293.9 mg/L | LC50 Method: | Trimmed Spearman-Karber |
| 95% Lower Confident Limit: | 277.5 mg/L | 95% Upper Confident Limit: | 311.3 mg/L |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

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**Date Received:** 3/7/16 17:17
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**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-008B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 388D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 300 mg/L | 19.5 | 19.5 | 8.45 | 8.43 | 8.90 | 8.90 | 762 | 777 | 10 | 10 | Time: | 01:45 PM |
| 400 mg/L | 19.5 | 19.5 | 8.54 | 8.53 | 8.90 | 8.90 | 942 | 941 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.5 | 19.5 | 8.42 | 8.41 | 9.00 | 8.90 | 1140 | 1130 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.5 | 19.5 | 8.43 | 8.47 | 9.00 | 8.90 | 1370 | 1330 | 10 | 10 | | |
| 750 mg/L | 19.5 | 19.5 | 8.50 | 8.51 | 8.90 | 8.90 | 1580 | 1610 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 300 mg/L | 20.0 | 20.0 | 7.57 | 7.45 | 7.10 | 7.00 | 784 | 802 | 10 | 10 | Time: | 10:45 AM |
| 400 mg/L | 20.0 | 20.0 | 7.44 | 7.46 | 6.90 | 7.10 | 967 | 967 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.0 | 20.0 | 7.46 | 7.51 | 7.50 | 7.80 | 1170 | 1160 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.0 | 20.0 | 7.49 | 7.54 | 7.80 | 8.00 | 1400 | 1360 | 3 | 2 | | |
| 750 mg/L | 20.0 | 20.0 | 7.57 | 7.58 | 8.20 | 8.10 | 1640 | 1660 | 0 | 0 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 300 mg/L | 20.1 | 20.1 | 7.12 | 7.24 | 6.20 | 6.50 | 796 | 815 | 10 | 10 | Time: | 08:30 AM |
| 400 mg/L | 20.1 | 20.1 | 7.19 | 7.29 | 6.00 | 6.90 | 982 | 986 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.1 | 20.1 | 7.28 | 7.30 | 6.90 | 6.90 | 1190 | 1180 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.1 | 20.1 | 7.36 | 7.43 | 7.20 | 7.70 | 1430 | 1380 | 3 | 2 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 300 mg/L | 19.7 | 19.7 | 7.38 | 7.40 | 8.20 | 7.90 | 818 | 840 | 10 | 10 | Time: | 11:40 AM |
| 400 mg/L | 19.7 | 19.7 | 7.50 | 7.54 | 8.30 | 8.50 | 1010 | 1010 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.7 | 19.7 | 7.47 | 7.43 | 8.10 | 7.80 | 1220 | 1210 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.7 | 19.7 | 7.44 | 7.45 | 8.00 | 8.00 | 1470 | 1420 | 3 | 2 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 300 mg/L | 19.0 | 19.0 | 7.47 | 7.46 | 7.50 | 7.80 | 838 | 861 | 10 | 10 | Time: | 02:20 PM |
| 400 mg/L | 19.0 | 19.0 | 7.56 | 7.59 | 8.20 | 8.40 | 1040 | 1040 | 10 | 10 | Analyst: | CP |
| 500 mg/L | 19.0 | 19.0 | 7.48 | 7.55 | 7.60 | 8.00 | 1250 | 1240 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.0 | 19.0 | 7.59 | 7.61 | 8.30 | 8.20 | 1500 | 1460 | 3 | 2 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |

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# Analytical Report

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|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-008B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 388D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 750 mg/L | Control | 750 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 47 | 48 | 48 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 39 | 39 | 42 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is greater than 500 mg/L, it should not be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | 576.2 mg/L | LC50 Method: | Trimmed Spearman-Karber |
| 95% Lower Confident Limit: | 554.0 mg/L | 95% Upper Confident Limit: | 599.3 mg/L |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

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**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-009B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 389D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 300 mg/L | 19.5 | 19.5 | 8.41 | 8.43 | 8.90 | 8.90 | 759 | 752 | 10 | 10 | Time: | 01:45 PM |
| 400 mg/L | 19.5 | 19.5 | 8.56 | 8.42 | 8.90 | 8.90 | 978 | 965 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.5 | 19.5 | 8.41 | 8.43 | 8.90 | 8.90 | 1130 | 1150 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.5 | 19.5 | 8.53 | 8.56 | 8.90 | 8.90 | 1310 | 1330 | 10 | 10 | | |
| 750 mg/L | 19.5 | 19.5 | 8.57 | 8.55 | 8.90 | 8.90 | 1630 | 1590 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 300 mg/L | 20.0 | 20.0 | 7.48 | 7.50 | 7.70 | 7.90 | 781 | 773 | 10 | 10 | Time: | 10:45 AM |
| 400 mg/L | 20.0 | 20.0 | 7.50 | 7.49 | 7.70 | 7.70 | 1010 | 988 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.0 | 20.0 | 7.49 | 7.52 | 7.80 | 7.90 | 1160 | 1190 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.0 | 20.0 | 7.56 | 7.60 | 8.30 | 8.30 | 1340 | 1350 | 6 | 4 | | |
| 750 mg/L | 20.0 | 20.0 | 7.59 | 7.60 | 8.30 | 8.30 | 1660 | 1610 | 0 | 0 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 300 mg/L | 20.1 | 20.1 | 7.34 | 7.34 | 7.50 | 7.40 | 792 | 784 | 10 | 10 | Time: | 08:30 AM |
| 400 mg/L | 20.1 | 20.1 | 7.31 | 7.29 | 7.50 | 7.20 | 1020 | 990 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.1 | 20.1 | 7.29 | 7.32 | 7.00 | 7.10 | 1180 | 1210 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.1 | 20.1 | 7.53 | 7.55 | 8.10 | 8.30 | 1360 | 1380 | 6 | 4 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 300 mg/L | 19.7 | 19.7 | 7.45 | 7.43 | 8.40 | 8.00 | 814 | 804 | 10 | 10 | Time: | 11:40 AM |
| 400 mg/L | 19.7 | 19.7 | 7.44 | 7.42 | 7.90 | 8.00 | 1050 | 1030 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.7 | 19.7 | 7.42 | 7.48 | 7.90 | 8.10 | 1220 | 1240 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.7 | 19.7 | 7.49 | 7.53 | 8.30 | 8.20 | 1390 | 1410 | 6 | 4 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 300 mg/L | 19.0 | 19.0 | 7.58 | 7.46 | 8.30 | 7.50 | 836 | 823 | 10 | 10 | Time: | 02:20 PM |
| 400 mg/L | 19.0 | 19.0 | 7.68 | 7.57 | 8.60 | 8.20 | 1080 | 1050 | 10 | 10 | Analyst: | CP |
| 500 mg/L | 19.0 | 19.0 | 7.61 | 7.67 | 8.30 | 8.50 | 1250 | 1270 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.0 | 19.0 | 7.64 | 7.77 | 8.60 | 8.90 | 1420 | 1440 | 6 | 4 | | |
| 750 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |

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|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-009B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 389D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 750 mg/L | Control | 750 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 48 | 48 | 47 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 39 | 39 | 41 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is greater than 500 mg/L, it should not be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | 606.2 mg/L | LC50 Method: | Trimmed Spearman-Karber |
| 95% Lower Confident Limit: | 579.3 mg/L | 95% Upper Confident Limit: | 634.3 mg/L |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

**Client:** Yolo County District Attorney's Office
**Date Received:** 3/7/16 17:17
**Project:** Fish Bioassay

**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-011B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 391D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 25 mg/L | 19.5 | 19.5 | 7.99 | 7.97 | 8.80 | 8.80 | 170 | 168 | 10 | 10 | Time: | 01:45 PM |
| 50 mg/L | 19.5 | 19.5 | 7.97 | 7.96 | 8.80 | 8.80 | 171 | 168 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 19.5 | 19.5 | 7.99 | 7.99 | 8.70 | 8.70 | 171 | 170 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 19.5 | 19.5 | 7.95 | 7.96 | 8.60 | 8.60 | 174 | 174 | 10 | 10 | | |
| 400 mg/L | 19.5 | 19.5 | 7.94 | 7.96 | 8.60 | 8.60 | 182 | 182 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 25 mg/L | 20.0 | 20.0 | 7.64 | 7.63 | 8.40 | 8.50 | 178 | 178 | 10 | 10 | Time: | 10:45 AM |
| 50 mg/L | 20.0 | 20.0 | 7.60 | 7.57 | 8.40 | 8.30 | 183 | 183 | 4 | 2 | Analyst: | KR |
| 100 mg/L | 20.0 | 20.0 | 7.50 | 7.53 | 7.90 | 8.10 | 190 | 188 | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | 20.0 | 20.0 | 7.53 | 7.55 | 8.20 | 8.20 | 190 | 190 | 0 | 0 | | |
| 400 mg/L | 20.0 | 20.0 | 7.67 | 7.70 | 8.50 | 8.60 | 195 | 197 | 0 | 0 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 25 mg/L | 20.1 | 20.1 | 7.51 | 7.54 | 8.60 | 8.60 | 181 | 181 | 10 | 10 | Time: | 08:30 AM |
| 50 mg/L | 20.1 | 20.1 | 7.53 | 7.43 | 8.70 | 7.60 | 187 | 203 | 4 | 2 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 25 mg/L | 19.7 | 19.7 | 7.43 | 7.40 | 7.90 | 7.60 | 186 | 187 | 10 | 10 | Time: | 11:40 AM |
| 50 mg/L | 19.7 | 19.7 | 7.51 | 7.50 | 8.30 | 8.30 | 194 | 212 | 4 | 2 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 25 mg/L | 19.0 | 19.0 | 7.47 | 7.30 | 8.20 | 6.80 | 192 | 194 | 10 | 10 | Time: | 02:20 PM |
| 50 mg/L | 19.0 | 19.0 | 7.68 | 7.50 | 8.40 | 7.60 | 200 | 227 | 4 | 2 | Analyst: | CP |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-011B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 391D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 400 mg/L | Control | 400 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 46 | 48 | 44 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 38 | 39 | 36 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is less than 500 mg/L, it should be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | 43.5 mg/L | LC50 Method: | Trimmed Spearman-Karber |
| 95% Lower Confident Limit: | 37.8 mg/L | 95% Upper Confident Limit: | 50.2 mg/L |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

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# Analytical Report

**Client:** Yolo County District Attorney's Office
**Date Received:** 3/7/16 17:17
**Project:** Fish Bioassay

**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-015B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 395D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 25 mg/L | 19.5 | 19.5 | 7.93 | 7.95 | 8.60 | 8.60 | 167 | 167 | 10 | 10 | Time: | 01:45 PM |
| 50 mg/L | 19.5 | 19.5 | 7.94 | 7.93 | 8.60 | 8.60 | 168 | 168 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 19.5 | 19.5 | 7.95 | 7.96 | 8.60 | 8.60 | 170 | 170 | 10 | 10 | Meter ID: | TM01 |
| 200 mg/L | 19.5 | 19.5 | 7.95 | 7.92 | 8.60 | 8.60 | 173 | 173 | 10 | 10 | | |
| 400 mg/L | 19.5 | 19.5 | 7.93 | 7.93 | 8.60 | 8.60 | 179 | 179 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 25 mg/L | 20.0 | 20.0 | 7.66 | 7.51 | 8.50 | 8.00 | 176 | 174 | 10 | 10 | Time: | 10:45 AM |
| 50 mg/L | 20.0 | 20.0 | 7.37 | 7.42 | 7.30 | 7.50 | 176 | 179 | 10 | 10 | Analyst: | KR |
| 100 mg/L | 20.0 | 20.0 | 7.56 | 7.63 | 8.20 | 8.40 | 186 | 185 | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | 20.0 | 20.0 | 7.57 | 7.64 | 8.60 | 8.60 | 189 | 182 | 0 | 0 | | |
| 400 mg/L | 20.0 | 20.0 | 7.60 | 7.59 | 8.50 | 8.40 | 197 | 197 | 0 | 0 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 25 mg/L | 20.1 | 20.1 | 7.34 | 7.36 | 8.00 | 7.70 | 178 | 178 | 10 | 10 | Time: | 08:30 AM |
| 50 mg/L | 20.1 | 20.1 | 7.23 | 7.30 | 6.80 | 7.00 | 183 | 185 | 9 | 10 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 25 mg/L | 19.7 | 19.7 | 7.59 | 7.58 | 8.60 | 8.50 | 183 | 183 | 10 | 10 | Time: | 11:40 AM |
| 50 mg/L | 19.7 | 19.7 | 7.57 | 7.54 | 8.50 | 8.30 | 195 | 191 | 8 | 10 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 25 mg/L | 19.0 | 19.0 | 7.71 | 7.38 | 8.90 | 6.30 | 189 | 188 | 10 | 10 | Time: | 02:20 PM |
| 50 mg/L | 19.0 | 19.0 | 7.69 | 7.60 | 8.50 | 8.40 | 200 | 196 | 8 | 10 | Analyst: | CP |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |

*(Cont.)*

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-015B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 395D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 400 mg/L | Control | 400 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 45 | 48 | 48 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 38 | 39 | 40 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is less than 500 mg/L, it should be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | 66.0 mg/L | LC50 Method: | Trimmed Spearman-Karber |
| 95% Lower Confident Limit: | 60.1 mg/L | 95% Upper Confident Limit: | 72.4 mg/L |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

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# Analytical Report

**Client:** Yolo County District Attorney's Office
**Date Received:** 3/7/16 17:17
**Project:** Fish Bioassay

**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Solid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-021B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 401D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 19.5 | 19.5 | 7.84 | 7.84 | 8.80 | 8.80 | 168 | 168 | 10 | 10 | Date: | 6/11/2016 |
| 300 mg/L | 19.5 | 19.5 | 8.09 | 8.10 | 8.60 | 8.60 | 169 | 169 | 10 | 10 | Time: | 01:45 PM |
| 400 mg/L | 19.5 | 19.5 | 8.18 | 8.15 | 8.60 | 8.60 | 170 | 169 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.5 | 19.5 | 8.23 | 8.22 | 8.60 | 8.60 | 171 | 171 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.5 | 19.5 | 8.26 | 8.28 | 8.60 | 8.60 | 172 | 172 | 10 | 10 | | |
| 750 mg/L | 19.5 | 19.5 | 8.33 | 8.31 | 8.60 | 8.60 | 173 | 173 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.66 | 7.62 | 7.80 | 7.70 | 177 | 175 | 10 | 10 | Date: | 6/12/2016 |
| 300 mg/L | 20.0 | 20.0 | 7.51 | 7.52 | 8.00 | 8.00 | 179 | 179 | 10 | 10 | Time: | 10:45 AM |
| 400 mg/L | 20.0 | 20.0 | 7.59 | 7.60 | 8.20 | 8.30 | 180 | 179 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.0 | 20.0 | 7.57 | 7.54 | 8.20 | 8.10 | 182 | 181 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.0 | 20.0 | 7.53 | 7.46 | 8.10 | 7.90 | 181 | 180 | 10 | 10 | | |
| 750 mg/L | 20.0 | 20.0 | 7.58 | 7.58 | 8.20 | 8.20 | 183 | 182 | 10 | 10 | | |
| Control | 20.1 | 20.1 | 7.42 | 7.44 | 7.70 | 7.70 | 180 | 179 | 10 | 10 | Date: | 6/13/2016 |
| 300 mg/L | 20.1 | 20.1 | 7.35 | 7.41 | 7.90 | 8.00 | 182 | 182 | 10 | 10 | Time: | 08:30 AM |
| 400 mg/L | 20.1 | 20.1 | 7.56 | 7.56 | 8.50 | 8.50 | 184 | 183 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 20.1 | 20.1 | 7.49 | 7.47 | 8.40 | 8.10 | 187 | 185 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 20.1 | 20.1 | 7.39 | 7.48 | 8.10 | 7.90 | 185 | 183 | 10 | 10 | | |
| 750 mg/L | 20.1 | 20.1 | 7.46 | 7.46 | 8.10 | 8.00 | 188 | 186 | 10 | 10 | | |
| Control | 19.7 | 19.7 | 7.21 | 7.27 | 7.50 | 7.70 | 187 | 185 | 10 | 10 | Date: | 6/14/2016 |
| 300 mg/L | 19.7 | 19.7 | 7.63 | 7.55 | 8.60 | 8.60 | 187 | 187 | 10 | 10 | Time: | 11:40 AM |
| 400 mg/L | 19.7 | 19.7 | 7.56 | 7.53 | 8.10 | 8.20 | 188 | 187 | 10 | 10 | Analyst: | KR |
| 500 mg/L | 19.7 | 19.7 | 7.48 | 7.51 | 8.00 | 8.00 | 192 | 189 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.7 | 19.7 | 7.45 | 7.42 | 8.20 | 7.90 | 188 | 188 | 10 | 10 | | |
| 750 mg/L | 19.7 | 19.7 | 7.39 | 7.34 | 7.70 | 7.20 | 191 | 192 | 10 | 10 | | |
| Control | 19.0 | 19.0 | 7.28 | 7.31 | 7.60 | 7.60 | 191 | 189 | 10 | 10 | Date: | 6/15/2016 |
| 300 mg/L | 19.0 | 19.0 | 7.65 | 7.56 | 8.70 | 8.60 | 190 | 189 | 10 | 10 | Time: | 02:20 PM |
| 400 mg/L | 19.0 | 19.0 | 7.38 | 7.27 | 7.60 | 6.70 | 192 | 191 | 10 | 10 | Analyst: | CP |
| 500 mg/L | 19.0 | 19.0 | 7.32 | 7.38 | 7.30 | 7.60 | 196 | 192 | 10 | 10 | Meter ID: | TM01 |
| 600 mg/L | 19.0 | 19.0 | 7.26 | 7.46 | 7.30 | 8.20 | 189 | 189 | 10 | 10 | | |
| 750 mg/L | 19.0 | 19.0 | 7.20 | 7.42 | 5.80 | 7.90 | 193 | 195 | 10 | 10 | | |

*(Cont.)*

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http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Solid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-021B | Species | *Pimephales promelas* | Avg. Length (mm) | 34.259 |
| Client ID | 401D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.31367 |
| Control Water Batch# | EPASW 025 | Organism Supplier | Thomas Fish Co | Max Weight (g) | 0.359 |
| Control Water | Soft Synthetic Water | Organism Log# | 160610FHM | Min Weight (g) | 0.29 |
| | | BatchID | 122074 | Test Location | WB1 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 750 mg/L | Control | 750 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 44 | 48 | 48 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 37 | 39 | 38 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 35.45 | 34.75 | 34.62 | 33.39 | 34.34 | 34.46 | 32.6 | 35.64 | 33.09 | 34.25 |
| Weight (g) | 0.359 | 0.3014 | 0.332 | 0.3047 | 0.3188 | 0.2913 | 0.2913 | 0.2959 | 0.29 | 0.3523 |

**Result: As the LC50 of this sample is greater than 500 mg/L, it should not be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| 96 LC50: | >750 mg/L | LC50 Method: | N/A |
| 95% Lower Confident Limit: | N/A | 95% Upper Confident Limit: | N/A |

CDPH ELAP 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
*"When Quality Counts"*

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

**Client:** Yolo County District Attorney's Office
**Date Received:** 3/7/16 17:17
**Project:** Fish Bioassay

**WorkOrder:** 1603359
**Extraction Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Analytical Method:** Polisini & Miller (CDFG 1988) (Haz.)
**Sample Matrix:** Liquid

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-024B | Species | *Pimephales promelas* | Avg. Length (mm) | 33.196 |
| Client ID | 404D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.29789 |
| Control Water Batch# | EPASW 028 | Organism Supplier | Thomas Fish Co. | Max Weight (g) | 0.3901 |
| Control Water | Soft Synthetic Water | Organism Log# | 160623FHM | Min Weight (g) | 0.2615 |
| | | BatchID | 122074 | Test Location | WB7 |

| Concentration | Temperature (°C) | | pH | | Dissolved $O_2$ (mg/L) | | Specific Conductivity (µS/cm) | | Survival | | Comments | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | A | B | A | B | A | B | A | B | A | B | | |
| Control | 20.3 | 20.3 | 7.58 | 7.67 | 8.10 | 8.00 | 161 | 160 | 10 | 10 | Date: | 6/23/2016 |
| 25 mg/L | 20.3 | 20.3 | 8.03 | 8.03 | 7.50 | 7.60 | 174 | 174 | 10 | 10 | Time: | 03:20 PM |
| 50 mg/L | 20.3 | 20.3 | 8.04 | 8.14 | 7.50 | 7.50 | 174 | 174 | 10 | 10 | Analyst: | CP |
| 100 mg/L | 20.3 | 20.3 | 8.08 | 8.11 | 7.50 | 7.50 | 174 | 174 | 10 | 10 | Meter ID: | TM02 |
| 200 mg/L | 20.3 | 20.3 | 8.02 | 8.08 | 7.10 | 7.10 | 174 | 174 | 10 | 10 | | |
| 400 mg/L | 20.3 | 20.3 | 8.08 | 8.05 | 6.70 | 6.90 | 174 | 174 | 10 | 10 | | |
| Control | 20.0 | 20.0 | 7.43 | 7.38 | N/A | N/A | 170 | 169 | 10 | 10 | Date: | 6/24/2016 |
| 25 mg/L | 20.0 | 20.0 | 7.15 | 8.23 | N/A | N/A | 182 | 183 | 10 | 8 | Time: | 09:00 AM |
| 50 mg/L | 20.0 | 20.0 | 7.29 | 7.29 | N/A | N/A | 184 | 185 | 0 | 0 | Analyst: | CP |
| 100 mg/L | 20.0 | 20.0 | 7.27 | 7.23 | N/A | N/A | 188 | 186 | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | 20.0 | 20.0 | 7.20 | 7.16 | N/A | N/A | 191 | 195 | 0 | 0 | | |
| 400 mg/L | 20.0 | 20.0 | 7.18 | 7.15 | N/A | N/A | 198 | 194 | 0 | 0 | | |
| Control | 19.8 | 19.8 | 7.60 | 7.50 | N/A | N/A | 172 | 172 | 10 | 10 | Date: | 6/25/2016 |
| 25 mg/L | 19.8 | 19.8 | 7.26 | 7.39 | N/A | N/A | 183 | 184 | 10 | 8 | Time: | 11:20 AM |
| 50 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 20.1 | 20.1 | 7.80 | 7.56 | N/A | N/A | 176 | 174 | 10 | 10 | Date: | 6/26/2016 |
| 25 mg/L | 20.1 | 20.1 | 7.49 | 7.44 | N/A | N/A | 187 | 188 | 10 | 8 | Time: | 10:45 AM |
| 50 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| Control | 20.2 | 20.2 | 7.79 | 7.66 | N/A | N/A | 178 | 177 | 10 | 10 | Date: | 6/27/2016 |
| 25 mg/L | 20.2 | 20.2 | 7.52 | 7.49 | N/A | N/A | 190 | 191 | 10 | 8 | Time: | 03:30 PM |
| 50 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Analyst: | KR |
| 100 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | Meter ID: | TM01 |
| 200 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |
| 400 mg/L | N/A | N/A | N/A | N/A | N/A | N/A | N/A | N/A | 0 | 0 | | |

*(Cont.)*

McCampbell Analytical, Inc.
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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

# Analytical Report

| | | | |
|---|---|---|---|
| **Client:** | Yolo County District Attorney's Office | **WorkOrder:** | 1603359 |
| **Date Received:** | 3/7/16 17:17 | **Extraction Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| **Project:** | Fish Bioassay | **Analytical Method:** | Polisini & Miller (CDFG 1988) (Haz.) |
| | | **Sample Matrix:** | Liquid |

## Hazardous Waste 96-hr Definitive Bioassay w/ Fathead Minnows

| | | | | | |
|---|---|---|---|---|---|
| Lab ID | 1603359-024B | Species | *Pimephales promelas* | Avg. Length (mm) | 33.196 |
| Client ID | 404D | Common Name | Fathead Minnows | Avg. Weight (g) | 0.29789 |
| Control Water Batch# | EPASW 028 | Organism Supplier | Thomas Fish Co. | Max Weight (g) | 0.3901 |
| Control Water | Soft Synthetic Water | Organism Log# | 160623FHM | Min Weight (g) | 0.2615 |
| | | BatchID | 122074 | Test Location | WB7 |

| | Initial | | Final | |
|---|---|---|---|---|
| | Control | 400 mg/L | Control | 400 mg/L |
| Hardness (mg/L as $CaCO_3$) | 44 | 48 | 44 | 49 |
| Alkalinity (mg/L as $CaCO_3$) | 32 | 34 | 37 | 36 |

| FishID | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|---|---|---|---|
| Length (mm) | 31.78 | 33.81 | 33.46 | 31.93 | 32.59 | 32.3 | 32.7 | 33.89 | 34.3 | 35.2 |
| Weight (g) | 0.274 | 0.279 | 0.3087 | 0.2672 | 0.2829 | 0.2615 | 0.3037 | 0.2914 | 0.3204 | 0.3901 |

**Result: As the LC50 of this sample is less than 500 mg/L, it should be considered hazardous on the basis of aquatic toxicity per the guidance established in the Polisini Miller (CDFG 1988) protocol.**

| | | | |
|---|---|---|---|
| **96 LC50:** | **34.0 mg/L** | **LC50 Method:** | **Trimmed Spearman-Karber** |
| **95% Lower Confident Limit:** | **32.1 mg/L** | **95% Upper Confident Limit:** | **36.0 mg/L** |

**Comment: On 6/23/16 the test solution disolved the sensor cap on the D.O. probe. As a result, D.O. levels could not be monitored for the duration of the test, however, the test was aerated to ensure sufficient oxygen levels for the duration of the test.**

CDPH ELAP 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

# CHAIN-OF-CUSTODY RECORD



**WorkOrder: 1603359 A** **ClientCode: YCDAO**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☐ Email ☐ HardCopy ☐ ThirdParty ☒ J-flag

**Report to:**
Heidi D'Agostino
Yolo County District Attorney's Office
301 2nd Street
Woodland, CA 95695
(530) 666-8185 FAX:

Email: heidi.dagostino@yolocounty.org; Rachel.H
cc/3rd Party:
PO:
ProjectNo: Fish Bioassay

**Bill to:**
Accounts Payable
Yolo County District Attorney's Office
301 2nd Street
Woodland, CA 95695

**Requested TAT:** 10 days;

***Date Received:*** 03/07/2016
***Date Logged:*** 03/08/2016
***Date Add-On:*** 06/10/2016

| Lab ID | Client ID | Matrix | Collection Date | Hold | Requested Tests (See legend below) 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1603359-001 | 381D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-008 | 388D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-009 | 389D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-011 | 391D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-015 | 395D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-021 | 401D | Solid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |
| 1603359-024 | 404D | Liquid | 3/7/2016 10:30 | ☐ | B | | | | | | | | | | | |

**Test Legend:**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 1 | HWPP_DEF | 2 | | 3 | | 4 | |
| 5 | | 6 | | 7 | | 8 | |
| 9 | | 10 | | 11 | | 12 | |

**Prepared by: Jena Alfaro**

**Add-On Prepared By: Jena Alfaro**

**Comments:**

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

# WORK ORDER SUMMARY

**Client Name:** YOLO COUNTY DISTRICT ATTORNEY'S OFFICE
**QC Level:**
**Work Order:** 1603359
**Project:** Fish Bioassay
**Client Contact:** Heidi D'Agostino
**Date Logged:** 3/8/2016
**Comments:**
**Contact's Email:** heidi.dagostino@yolocounty.org; Rachel.Hunter@yolocounty.org
**Date Add-On:** 6/10/2016

| Lab ID | Client ID | Matrix | Test Name | Containers /Composites | Bottle & Preservative | Collection Date & Time | TAT | Sediment Content | Hold | SubOut |
|---|---|---|---|---|---|---|---|---|---|---|
| 1603359-001B | 381D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 6.4x9IN Box | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-008B | 388D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 18oz Tall HDPE | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-009B | 389D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 18oz Tall HDPE | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-011B | 391D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 12oz HDPE | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-015B | 395D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 10oz HDPE | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-021B | 401D | Solid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 1 | 8oz HDPE | 3/7/2016 10:30 | 10 days | | ☐ | |
| 1603359-024B | 404D | Liquid | Haz Waste "Title 22" Bioassay w/ FHM - Definitive | 5 | 2 Clips .13fl OZ | 3/7/2016 10:30 | 10 days | | ☐ | |

**NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

**- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.**

1603359

# OFFICE OF THE DISTRICT ATTORNEY
## YOLO COUNTY

301 2nd Street
Woodland, California 95695
Telephone: (530) 666-8424 Fax: (530) 666-8423

Please send results to:
Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8185

Testing Facility
Facility name: McCampbell Analytical, Inc
Facility address: 1534 Willow Pass Rd
Pittsburg, CA 94565
Facility contact: Rosa Venegas

## 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: Plastic (P), Cardboard/box (C) | Evidence tape: Yes (Y) No (N) | Transported in iced cooler: Yes (Y) No (N) | Required analysis: 96-hour fish bioassay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 381D | Great Value Original Clean Dryer Sheets, Bold Clean Scent, 160 sheets | Wal-mart Stores Inc | 078742088112 | 1 | solid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| 382D | Great Value Free & Delicate Dryer Sheets, Hypoallergenic, 160 sheets | Wal-mart Stores Inc | 078742072159 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| 383D | Parent's Choice Fresh Scent Wipes, 80 wipes | Wal-mart Stores Inc | 681131099059 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 384D | Parent's Choice Fragrance Free Wipes, 80 wipes | Wal-mart Stores Inc | 681131099042 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 385D | Top Job Baisc Cleaning Vinegar All Purpose Cleaner, 64 fl oz | KIK International Inc | 836272010375 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 386D | Top Job Basic Clear Ammonia All Purpose Cleaner, 64 fl oz | KIK International Inc | 836272010399 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 387D | Tiki Clean Burn Torch Fuel, 32 fl oz | Lamplight Farms Inc | 086861141557 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 388D | Purex Crystals in-wash fragrance booster, Fresh Spring Waters, 18 oz | The Dial Corporation | 024200089962 | 1 | solid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 389D | Purex Crystals in-wash fragrance booster, Lavender Blossom, 18 oz | The Dial Corporation | 024200089993 | 1 | solid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 390D | Neutrogena Body Oil, Light Sesame Formula, Fragrance Free, 8.5 fl oz | Neutrogena Corporation | 070501618301 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 391D | Equate Feminine Wash, Sensitive Skin, 12 fl oz | Wal-mart Stores Inc | 681131078290 | 1 | liquid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 392D | Jergens Natrual Glow Tan Extender, All Skin Tones, 7.5 fl oz | Kao USA Inc | 019100209411 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 393D | Elmer's Washable Clear School Glue, 9 fl oz | Elmer's Products Inc | 026000003094 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 394D | Expo White Board Care, Cleaner, 8 oz | Newell Rubbermaid Office Products | 071641818033 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 395D | Hair & Body Baby Wash, 10 fl oz | Vi-Jon | 072785111721 | 1 | liquid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 396D | Miracle Gro All Purpose Plant Food, 8 oz | Scotts Miracle-Gro Products Inc | 073561000994 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| 397D | Carbona Color Grabber with Microfiber, 30 sheets | Delta Carbona LP | 070409004749 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| 398D | A thru Z Select Multivitamin, 50+ Advanced Formula, 220 tablets | Walgreen Co | 311917116440 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 399D | AZO Cranberry Gummies, Mixed Berry Flavor, 72 gummies | i-Health Inc | 787651760100 | 1 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 400D | Waverly Inspirations Chalk, Peacock, Acrylic Paint, Matte Finish, 8 fl oz | Plaid Enterprises Inc | 028995607059 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |

**NOTE:** All Samples were taken at 301 2nd St. Woodland, CA 95695

| | Name | Title | Date | Time | Remarks |
|---|---|---|---|---|---|
| Relinquished by: | Rachel Hunter | Legal Secretary | 3/7/16 | 2:41 pm | |
| Received by: | R. Glas | | 3-7-16 | 14:41 | * Definitive testing Added 6/10/16 STD TAT |
| Relinquished by: | R. Glas | | 3-7-16 | 1717 | |
| Received by: | | | 3/7/16 | 17:17 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

# OFFICE OF THE DISTRICT ATTORNEY
## YOLO COUNTY

301 2nd Street
Woodland, California 95695
Telephone: (530) 666-8424 Fax: (530) 666-8423

Please send results to:
Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8185

Testing Facility
Facility name: McCampbell Analytical, Inc
Facility address: 1534 Willow Pass Rd
Pittsburg, CA 94565
Facility contact: Rosa Venegas

## 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: Plastic (P), Cardboard/box (C) | Evidence tape: Yes (Y) No (N) | Transported in iced cooler: Yes (Y) No (N) | Required analysis: 96-hour fish bioassay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 401D | Waverly Inspirations Varnish, Matte, Durable Sealant, 8 fl oz | Plaid Enterprises Inc | 028995605642 | 1 | liquid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 402D | Elmer's X-treme School Glue, 8 fl oz | Elmer's Products Inc | 026000005920 | 1 | liquid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | P | N | N | X |
| 403D | Equate Immune Support Dietary Supplement, Orange Flavor, 10 tablets | Wal-mart Stores Inc | 078742092898 | 2 | solid | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| 404D | Febreze Vent Clips, Island Fresh, 2 clips, .13 fl oz total | Proctor & Gamble | 037000905004 | 5 | liquid * | 3/7/2016 | 10:30 AM | n/a | 200g (min) | C | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |
| | | | | | | 3/7/2016 | 10:30 AM | n/a | 200g (min) | | N | N | X |

**NOTE:** All Samples were taken at 301 2nd St. Woodland, CA 95695

| | Name | Title | Date | Time | Remarks |
|---|---|---|---|---|---|
| Relinquished by: | Rachel Hunter | Legal Secretary | 3/7/16 | 2:41 pm | |
| Received by: | R. Gler | | 3-7-16 | 14:41 | |
| Relinquished by: | R. Gle | | 3-7-16 | 1717 | |
| Received by: | [illegible] | | 3/7/16 | 1717 | |
| Relinquished by: | | | | | |
| Received by: | | | | | |

# OFFICE OF THE DISTRICT ATTORNEY
## YOLO COUNTY

301 2nd Street
Woodland, California 95695
Telephone: (530) 666-8424 Fax: (530) 666-8423

Please send results to:
Name: Investigator Heidi D'Agostino
Email: heidi.dagostino@yolocounty.org
Fax: 530-666-8185

Testing Facility
Facility name: McCampbell Analytical, Inc
Facility address: 1534 Willow Pass Rd
Pittsburg, CA 94565
Facility contact: Rosa Venegas

## 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: Plastic (P), Cardboard/box (C) | Evidence tape: Yes (Y) No (N) | Transported in iced cooler: Yes (Y) No (N) | Required analysis: 96-hour fish bioassay |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 404D | Febreze Vent Clips, Island Fresh, 2 clips, .13 fl oz total | Proctor & Gamble | 037000905004 | 4 | liquid | 6/15/2016 | 9:00 AM | n/a | 200g (min) | C | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |
| | | | | | | | | n/a | 200g (min) | | N | N | X |

**NOTE:** All Samples were taken at 301 2nd St. Woodland, CA 95695

| | Name | Title | Date | Time | Remarks |
|---|---|---|---|---|---|
| Relinquished by: | Rachel Hunter | Legal Secretary | 6/15/16 | 9:00 am | |
| Received by: | [signature] | | 6/16/16 | | Additional volume for 1608359-024 |
| Relinquished by: | | | | | |
| Received by: | | | | | |
| Relinquished by: | | | | | |
| Received by: | | | | | |