

1. **Annual Report**

a. Executive Summary

The Turlock Mosquito Abatement District (District) complied with the applicable components of the General NPDES Permit for Biological and Residual Pesticide Discharges from Vector Control Applications (General Permit). The District operates within the Central Valley Regional Water Quality Control Board (Region 5). The District operates under the Statewide National Pollutant Discharge Elimination System (NPDES) Permit for Biological and Residual Pesticide Discharges to Waters of the United States from Vector Control Applications (Water Quality Order No. 2011-0002-DWQ as amended by Water Quality Order No. 2012-0003-DWQ) since it became effective on November 1, 2011. The District is a member of the MVCAC NPDES Permit Coalition and the Coalition conducted all required chemical and physical monitoring. The results of the Coalition's monitoring will be included in the Coalition Annual Report that will be sent separately to the SWRCB and Regional Boards.

The District made 170 applications to waters of the U.S. during the 2012 calendar year. The log of these applications can be found in the 2012 Pesticide Application Log file. The District performed Visual Monitoring of >10% of individual application sites identified as "Waters of the US" until July 2012. The SWRCB notified the permit holders in a letter to MVCAC dated July 13, 2012 that because the visual monitoring requirements were "interfering with the need for maximal efficient application to adequately protect human health from vector-borne diseases like West Nile Virus," that the visual monitoring was no longer required by individual districts. The visual monitoring completed by the District in the first half of the year found that there was no observable change in water quality between the background, event, and post event time periods (see Monitoring Log files for May, June, & July 2012). The District continued to follow the guidelines of its Pesticide Application Plan (PAP).

b. Summary of Monitoring Data

The District began the year by complying with the visual monitoring requirements of the permit. See Footnote 1 of Tables C-1 and C-2 in Amended Water Quality Control Order No. 2011-0002-DWQ, General Permit No. CAG990004. These requirements required a tremendous amount of time to monitor including a number of revisits to specific sites to gather the necessary information. Most critically, time spent revisiting old sites caused delay in getting to new sites. Given the short lifecycle of the mosquito, this greatly exacerbated the task of looking for and treating mosquito breeding sites early in their lifecycle when treatment is more concentrated and effective. Recognizing the need of mosquito control districts to quickly find and treat mosquito breeding sites to prevent the spread of disease, such as West Nile virus, the SWRCB issued a letter to MVCAC dated July 13, 2012 that indicated the visual monitoring requirement would no longer be required of individual districts.

Per the instructions in the letter, the Coalition will provide information on the incidence of West Nile Virus and other similar public health threats in the Coalition's annual report. For the reasons stated above, the District will no longer be collecting visual monitoring data.

c. BMP Identification

BMP's utilized by the District are outlined in the District's PAP. These include; emphasis on reducing mosquito breeding habitat through non-chemical means, training employees to prevent spills and applying appropriate amount of chemical in each treatment area, calibrate application equipment and use a biology based assessment for determining treatment thresholds.

d. Violation Discussion

No violations of the General Permit by the District were observed.

e. Map of Applications

See 2012 Turlock Mosquito Abatement NPDES Sites

f. Log of Applications made to Waters of the U.S.

Attachment B includes monthly reports of all application data on the covered application areas.

g. General Information on Applications

Attachment B includes information on dosage, concentration and quantity of each pesticide used which are derived from the individual pesticide labels.

h. Visual Monitoring Data

Visual Monitoring Data has been submitted to the State Water Board in the provided Monitoring Database Form -Attachment C.

i. BMP, PAP, Monitoring Program Recommendations

No recommendations are being proposed to improve the current BMP's, PAP, or monitoring plan. Any changes to the Coalition Monitoring Plan will be highlighted in the Coalition Monitoring Annual Report.

j. Pesticide Application Log made to Waters of the U.S.

A representation of the pesticide application log is contained in the attached 2012 Pesticide Application Log file.

2. **Updated PAP Components**

N/A

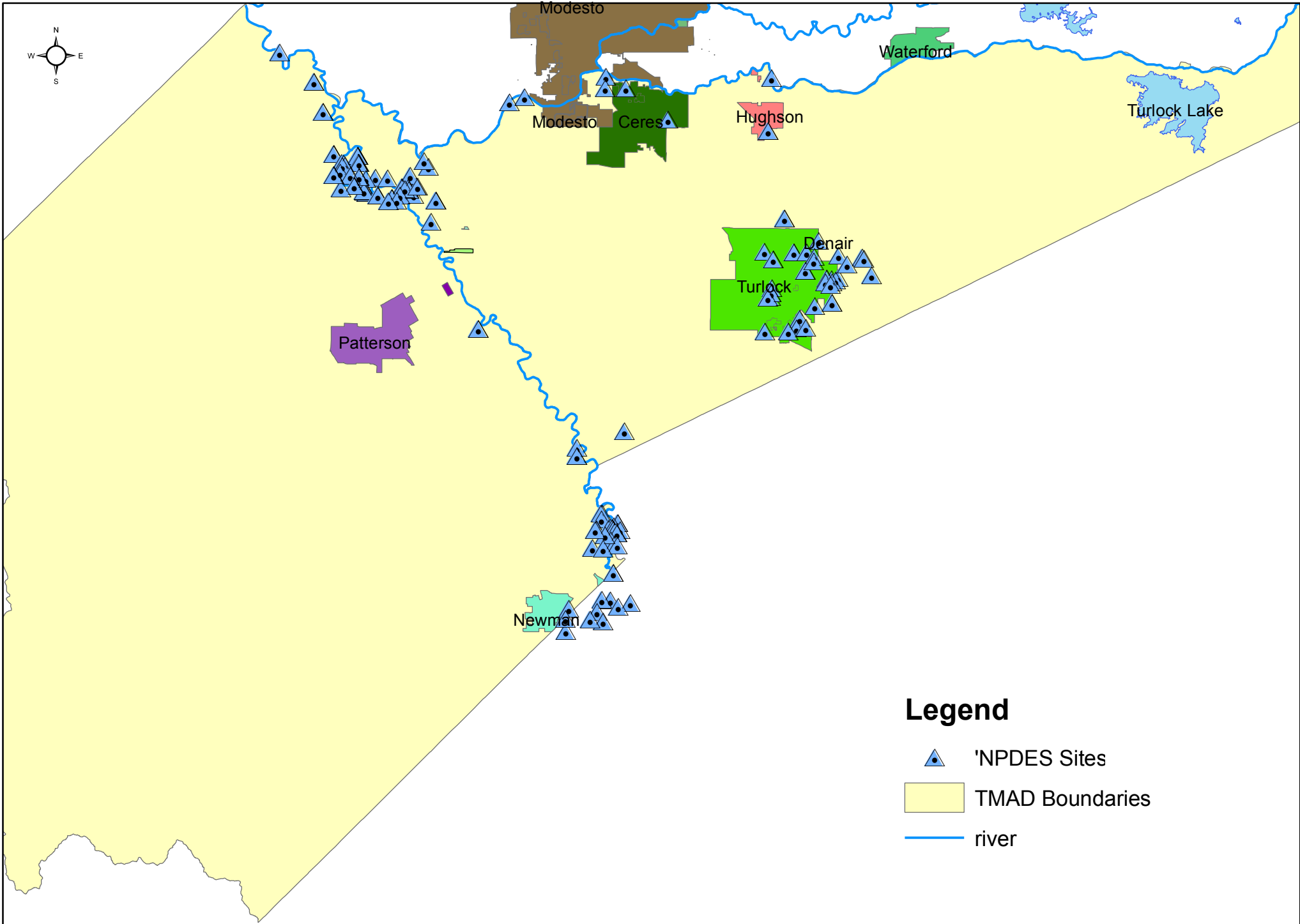
3. **Self Monitoring Reports**

N/A

4. **Monitoring Reports**

The Coalition Monitoring Annual Report will summarize all physical measurements and chemical monitoring done for 2011 and 2012.

2012 Turlock Mosquito Abatement NPDES Sites



Dates: 1/1/2012 to 10/31/2012

| Date Of Application | Location | Name of Applicator | Source Description | Acreage Treated | Material | Unit of Measure | Quantity Used | Application Rate | Latitude | Longitude |
|---------------------|----------------|--------------------|--------------------|-----------------|---------------------|-----------------|---------------|----------------------|----------|------------|
| 06/25/2012 | 1,5,10,01,10,A | PINNEY | STORM BASIN | 0.20 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.52962 | -120.82657 |
| 06/06/2012 | 1,5,10,02,12,A | PINNEY | STORM BASIN | 0.25 | BVA 2 | GALLONS | 1.00 | 4 GAL./1 ACRE | 37.54278 | -120.85111 |
| 04/23/2012 | 1,5,10,02,12,A | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.54278 | -120.85111 |
| 04/27/2012 | 1,5,10,02,25,A | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.52333 | -120.84417 |
| 06/06/2012 | 1,5,10,02,25,A | PINNEY | STORM BASIN | 0.50 | BVA 2 | GALLONS | 2.00 | 4 GAL./1 ACRE | 37.52333 | -120.84417 |
| 06/25/2012 | 1,5,10,02,31,B | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.52339 | -120.83504 |
| 06/25/2012 | 1,5,10,03,26,A | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.52348 | -120.86557 |
| 05/16/2012 | 1,5,10,10,06,A | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.51889 | -120.85944 |
| 06/25/2012 | 1,5,10,10,06,A | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.51889 | -120.85944 |
| 06/25/2012 | 1,5,10,11,01,Z | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.52056 | -120.82944 |
| 06/06/2012 | 1,5,10,11,20,A | PINNEY | STORM BASIN | 0.01 | AQNIQUE MMF | OUNCE | 0.03 | 1-3 OZ./1,000 SQ.FT. | 37.51250 | -120.83583 |
| 06/25/2012 | 1,5,10,11,20,A | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.51250 | -120.83583 |
| 09/07/2012 | 1,5,10,12,01, | PINNEY | RESIDENTIAL | 687.00 | AQUAHALT | OUNCE | 378.00 | .55 OZ./1 ACRE | 37.52130 | -120.81216 |
| 10/05/2012 | 1,5,10,12,09,Z | PINNEY | RESIDENTIAL | 322.00 | AQUAHALT | OUNCE | 177.00 | .55 OZ./1 ACRE | 37.51780 | -120.83009 |
| 06/25/2012 | 1,5,10,12,30,A | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.50763 | -120.81692 |
| 06/06/2012 | 1,5,10,12,30,B | PINNEY | STORM BASIN | 0.13 | BVA 2 | GALLONS | 0.52 | 4 GAL./1 ACRE | 37.50806 | -120.82056 |
| 06/25/2012 | 1,5,10,12,30,B | PINNEY | STORM BASIN | 1.00 | ALTOSID XR BRIQUETS | EACH | 10.00 | 1 BRIQ./1 ACRE | 37.50806 | -120.82056 |
| 06/25/2012 | 1,5,10,12,32,B | PINNEY | STORM BASIN | 0.40 | ALTOSID XR BRIQUETS | EACH | 4.00 | 1 BRIQ./1 ACRE | 37.50833 | -120.81222 |
| 09/07/2012 | 1,5,10,13,01, | PINNEY | RESIDENTIAL | 545.50 | AQUAHALT | OUNCE | 300.00 | .55 OZ./1 ACRE | 37.50692 | -120.81416 |
| 10/05/2012 | 1,5,10,13,02,Z | PINNEY | RESIDENTIAL | 451.00 | AQUAHALT | OUNCE | 248.00 | .55 OZ./1 ACRE | 37.50557 | -120.81676 |
| 06/25/2012 | 1,5,10,13,03,A | PINNEY | STORM BASIN | 0.30 | ALTOSID XR BRIQUETS | EACH | 3.00 | 1 BRIQ./1 ACRE | 37.50556 | -120.82139 |
| 06/25/2012 | 1,5,10,13,03,B | PINNEY | STORM BASIN | 0.30 | ALTOSID XR BRIQUETS | EACH | 3.00 | 1 BRIQ./1 ACRE | 37.50417 | -120.81778 |
| 06/25/2012 | 1,5,10,13,29,A | PINNEY | STORM BASIN | 0.60 | ALTOSID XR BRIQUETS | EACH | 6.00 | 1 BRIQ./1 ACRE | 37.49417 | -120.81667 |
| 06/06/2012 | 1,5,10,13,29,A | PINNEY | STORM BASIN | 0.05 | BVA 2 | GALLONS | 0.20 | 4 GAL./1 ACRE | 37.49417 | -120.81667 |
| 06/25/2012 | 1,5,10,15,07,A | PINNEY | STORM BASIN | 1.33 | ALTOSID XR BRIQUETS | EACH | 11.00 | 1 BRIQ./1 ACRE | 37.50250 | -120.86028 |
| 06/25/2012 | 1,5,10,15,21,A | PINNEY | STORM BASIN | 0.20 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.49707 | -120.86099 |
| 06/25/2012 | 1,5,10,15,22,A | PINNEY | STORM BASIN | 0.10 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.49944 | -120.86083 |
| 06/06/2012 | 1,5,10,15,22,A | PINNEY | STORM BASIN | 0.05 | BVA 2 | GALLONS | 0.20 | 4 GAL./1 ACRE | 37.49944 | -120.86083 |
| 06/25/2012 | 1,5,10,22,09,A | PINNEY | STORM BASIN | 0.20 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.49694 | -120.86306 |
| 06/07/2012 | 1,5,10,23,20,B | PINNEY | STORM BASIN | 0.01 | AQNIQUE MMF | OUNCE | 0.03 | 1-3 OZ./1,000 SQ.FT. | 37.48493 | -120.83993 |
| 06/07/2012 | 1,5,10,23,27,A | PINNEY | STORM BASIN | 0.01 | AQNIQUE MMF | OUNCE | 0.03 | 1-3 OZ./1,000 SQ.FT. | 37.47914 | -120.84218 |
| 05/30/2012 | 1,5,10,23,32,A | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.47969 | -120.83555 |
| 09/07/2012 | 1,5,10,24,07,Z | PINNEY | RESIDENTIAL | 130.00 | AQUAHALT | OUNCE | 71.00 | .55 OZ./1 ACRE | 37.49197 | -120.82910 |
| 05/11/2012 | 1,5,10,26,08,B | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.47741 | -120.84817 |
| 06/11/2012 | 1,5,10,27,08,D | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.51 | 4 GAL./1 ACRE | 37.47734 | -120.86493 |
| 07/18/2012 | 1,5,11,07,01,Z | PINNEY | RESIDENTIAL | 0.58 | PYROCIDE 12% | OUNCE | 0.75 | 1.28 OZ/1ACRE | 37.52030 | -120.79498 |
| 04/23/2012 | 1,5,11,07,11,A | PINNEY | STORM BASIN | 0.10 | BVA 2 | GALLONS | 0.30 | 4 GAL./1 ACRE | 37.51599 | -120.80584 |
| 07/18/2012 | 1,5,11,08,08,Z | PINNEY | RESIDENTIAL | 0.31 | PYROCIDE 12% | OUNCE | 0.40 | 1.28 OZ/1ACRE | 37.51941 | -120.79368 |
| 05/17/2012 | 1,5,11,08,26,C | PINNEY | DRAIN DITCH | 0.25 | BVA 2 | GALLONS | 1.00 | 4 GAL./1 ACRE | 37.51006 | -120.78819 |
| 06/07/2012 | 2,5,08,22,31,A | BRAZIL | POND | 1.67 | BVA 2 | GALLONS | 5.00 | 4 GAL./1 ACRE | 37.47802 | -121.07235 |
| 06/28/2012 | 2,5,08,22,31,A | BRAZIL | POND | 5.33 | BVA 2 | GALLONS | 16.00 | 4 GAL./1 ACRE | 37.47802 | -121.07235 |
| 07/20/2012 | 2,6,09,17,30,A | BRAZIL | SLOUGH | 1.00 | BVA 2 | GALLONS | 3.00 | 4 GAL./1 ACRE | 37.4057_ | -121.00103 |
| 06/15/2012 | 2,6,09,17,30,Z | BRAZIL | SLOUGH | 2.00 | ALTOSID PELLETS | POUNDS | 5.00 | 2.5 LBS./1 ACRE | 37.40982 | -121.00051 |
| 07/20/2012 | 2,6,09,20,02,A | BRAZIL | SLOUGH | 0.33 | BVA 2 | GALLONS | 1.00 | 4 GAL./1 ACRE | 37.40516 | -121.00061 |
| 06/15/2012 | 2,6,09,20,02,A | BRAZIL | SLOUGH | 3.00 | ALTOSID PELLETS | POUNDS | 7.50 | 2.5 LBS./1 ACRE | 37.40516 | -121.00061 |

| | | | | | | | | | | |
|------------|----------------|---------|-------------------|--------|----------------------------|---------|--------|--------------------|----------|------------|
| 07/11/2012 | 2,6,09,33,03,Z | BRAZIL | SLOUGH | 2.50 | DIMILIN 25W | GALLONS | 25.00 | .325 OZ./1 ACRE | 37.37174 | -120.98193 |
| 07/11/2012 | 2,6,09,33,14,Z | BRAZIL | SLOUGH | 2.50 | DIMILIN 25W | GALLONS | 25.00 | .325 OZ./1 ACRE | 37.37199 | -120.98273 |
| 08/03/2012 | 2,6,09,33,19,Z | BRAZIL | SLOUGH | 49.30 | PYROCID 12% | OUNCE | 64.00 | 1.28 OZ/1ACRE | 37.36885 | -120.98260 |
| 06/29/2012 | 2,6,09,33,29,Z | BRAZIL | POND | 25.00 | PYROCID 12% | OUNCE | 32.00 | 1.28 OZ/1ACRE | 37.36287 | -120.98616 |
| 06/15/2012 | 2,6,09,33,29,Z | BRAZIL | SLOUGH | 57.00 | PYROCID 12% | OUNCE | 75.00 | 1.28 OZ/1ACRE | 37.36287 | -120.98616 |
| 07/31/2012 | 2,6,09,34,21,Z | BRAZIL | SLOUGH | 98.50 | PYROCID 12% | OUNCE | 128.00 | 1.28 OZ/1ACRE | 37.36650 | -120.97081 |
| 06/29/2012 | 2,6,09,34,21,Z | BRAZIL | SLOUGH | 74.00 | PYROCID 12% | OUNCE | 96.00 | 1.28 OZ/1ACRE | 37.36650 | -120.97081 |
| 08/10/2012 | 2,6,09,34,22,A | BRAZIL | SLOUGH | 1.67 | BVA 2 | GALLONS | 5.00 | 4 GAL./1 ACRE | 37.36477 | -120.97381 |
| 06/15/2012 | 2,6,09,34,25,Z | BRAZIL | SLOUGH | 24.00 | PYROCID 12% | OUNCE | 32.00 | 1.28 OZ/1ACRE | 37.36314 | -120.97758 |
| 06/04/2012 | 2,6,09,34,26,A | BRAZIL | SLOUGH | 3.00 | DIMILIN 25W | OUNCE | 30.00 | .325 OZ./1 ACRE | 37.36332 | -120.97486 |
| 07/18/2012 | 2,6,09,34,26,A | BRAZIL | SLOUGH | 2.00 | DIMILIN 25W | OUNCE | 20.00 | .325 OZ./1 ACRE | 37.36332 | -120.97486 |
| 07/18/2012 | 2,6,09,34,26,B | BRAZIL | SLOUGH | 2.00 | DIMILIN 25W | OUNCE | 20.00 | .325 OZ./1 ACRE | 37.36258 | -120.97410 |
| 06/04/2012 | 2,6,09,34,26,B | BRAZIL | SLOUGH | 2.00 | DIMILIN 25W | OUNCE | 20.00 | .325 OZ./1 ACRE | 37.36258 | -120.97410 |
| 07/31/2012 | 2,7,09,03,04,A | BRAZIL | SLOUGH | 5.00 | DIMILIN 25W | OUNCE | 50.00 | .325 OZ./1 ACRE | 37.36210 | -120.96893 |
| 06/06/2012 | 2,7,09,03,06,A | BRAZIL | DRAIN DITCH | 2.50 | DIMILIN 25W | OUNCE | 25.00 | .325 OZ./1 ACRE | 37.36128 | -120.97321 |
| 07/18/2012 | 2,7,09,03,06,A | BRAZIL | DRAIN DITCH | 1.00 | DIMILIN 25W | OUNCE | 10.00 | .325 OZ./1 ACRE | 37.36128 | -120.97321 |
| 06/29/2012 | 2,7,09,03,06,Z | BRAZIL | SLOUGH | 124.00 | PYROCID 12% | OUNCE | 160.00 | 1.28 OZ/1ACRE | 37.36060 | -120.97138 |
| 06/15/2012 | 2,7,09,03,06,Z | BRAZIL | SLOUGH | 172.00 | PYROCID 12% | OUNCE | 224.00 | 1.28 OZ/1ACRE | 37.36060 | -120.97138 |
| 07/31/2012 | 2,7,09,03,06,Z | BRAZIL | SLOUGH | 101.60 | PYROCID 12% | OUNCE | 132.00 | 1.28 OZ/1ACRE | 37.36060 | -120.97138 |
| 07/23/2012 | 2,7,09,03,10,A | BRAZIL | SLOUGH | 4.00 | DIMILIN 25W | OUNCE | 40.00 | .325 OZ./1 ACRE | 37.35649 | -120.97574 |
| 07/23/2012 | 2,7,09,03,23,A | BRAZIL | SLOUGH | 0.40 | DIMILIN 25W | OUNCE | 40.00 | .325 OZ./1 ACRE | 37.35389 | -120.97344 |
| 07/23/2012 | 2,7,09,03,28,A | BRAZIL | POND | 2.00 | DIMILIN 25W | OUNCE | 20.00 | .325 OZ./1 ACRE | 37.35343 | -120.97100 |
| 08/03/2012 | 2,7,09,04,01,Z | BRAZIL | SLOUGH | 147.70 | PYROCID 12% | OUNCE | 192.00 | 1.28 OZ/1ACRE | 37.35940 | -120.97995 |
| 06/29/2012 | 2,7,09,04,04,Z | BRAZIL | SLOUGH | 74.00 | PYROCID 12% | OUNCE | 96.00 | 1.28 OZ/1ACRE | 37.36246 | -120.98702 |
| 05/21/2012 | 2,7,09,04,22,A | BRAZIL | SLOUGH | 1.33 | BVA 2 | GALLONS | 4.00 | 4 GAL./1 ACRE | 37.35203 | -120.98899 |
| 06/15/2012 | 2,7,09,04,29,Z | BRAZIL | RESIDENTIAL | 77.00 | PYROCID 12% | OUNCE | 101.00 | 1.28 OZ/1ACRE | 37.35163 | -120.98130 |
| 06/27/2012 | 2,7,09,10,23,P | BRAZIL | MAN MADE WETLANDS | 12.00 | ALTOSID XR-G | POUNDS | 60.00 | 5 LBS./1 ACRE | 37.33745 | -120.97366 |
| 06/27/2012 | 2,7,09,15,23,P | BRAZIL | MAN MADE WETLANDS | 12.00 | ALTOSID XR-G | POUNDS | 60.00 | 5 LBS./1 ACRE | 37.33745 | -120.97366 |
| 08/02/2012 | 2,7,09,15,24, | BRAZIL | MAN MADE WETLANDS | 40.00 | ALTOSID XR-G | POUNDS | 200.00 | 5 LBS./1 ACRE | 37.32183 | -120.97565 |
| 08/02/2012 | 2,7,09,15,25,P | BRAZIL | MAN MADE WETLANDS | 24.00 | ALTOSID XR-G | POUNDS | 120.00 | 5 LBS./1 ACRE | 37.32037 | -120.96122 |
| 06/15/2012 | 2,7,09,16,29,Z | BRAZIL | MAN MADE WETLANDS | 24.00 | PYROCID 12% | OUNCE | 32.00 | 1.28 OZ/1ACRE | 37.32204 | -120.98198 |
| 06/15/2012 | 2,7,09,20,06,Z | BRAZIL | RESIDENTIAL | 117.00 | PYROCID 12% | OUNCE | 153.00 | 1.28 OZ/1ACRE | 37.31685 | -121.00583 |
| 06/01/2012 | 2,7,09,20,27,A | BRAZIL | PASTURE | 11.33 | ALTOSID ALL | GALLONS | 34.00 | 3.9 OZ./1 ACRE | 37.30386 | -121.00781 |
| 08/01/2012 | 2,7,09,20,27,B | BRAZIL | PASTURE | 4.33 | ALTOSID ALL | GALLONS | 13.00 | 3.9 OZ./1 ACRE | 37.31090 | -121.00828 |
| 08/09/2012 | 2,7,09,21,04,P | BRAZIL | MAN MADE WETLANDS | 24.00 | ALTOSID XR-G | POUNDS | 120.00 | 5 LBS./1 ACRE | 37.31532 | -120.98545 |
| 06/25/2012 | 2,7,09,21,05,P | BRAZIL | MAN MADE WETLANDS | 10.00 | ALTOSID ALL | GALLONS | 30.00 | 3.9 OZ./1 ACRE | 37.30953 | -120.98107 |
| 06/15/2012 | 2,7,09,21,05,Z | BRAZIL | MAN MADE WETLANDS | 172.00 | PYROCID 12% | OUNCE | 224.00 | 1.28 OZ/1ACRE | 37.31074 | -120.99055 |
| 06/15/2012 | 2,7,09,22,05,Z | BRAZIL | MAN MADE WETLANDS | 24.00 | PYROCID 12% | OUNCE | 32.00 | 1.28 OZ/1ACRE | 37.31794 | -120.97003 |
| 06/01/2012 | 3,3,14,19,01,Z | RUSH | RESIDENTIAL | 49.30 | PYROCID 12% | OUNCE | 64.00 | 1.28 OZ/1ACRE | 37.66389 | -120.46207 |
| 06/25/2012 | 6,4,09,03,12,A | REFORMA | STORM BASIN | 0.20 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.61679 | -120.96630 |
| 06/25/2012 | 6,4,09,04,03,A | REFORMA | STORM BASIN | 0.30 | ALTOSID XR BRIQUETS | EACH | 1.00 | 1 BRIQ./1 ACRE | 37.62347 | -120.98106 |
| 06/25/2012 | 6,4,09,04,14,Z | REFORMA | SUMP PUMP | 0.20 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.61692 | -120.98144 |
| 07/20/2012 | 6,4,09,11,28,A | REFORMA | STORM BASIN | 0.02 | BVA 2 | GALLONS | 0.08 | 4 GAL./1 ACRE | 31.59839 | -120.94883 |
| 10/05/2012 | 6,4,09,12,26,A | REFORMA | STORM BASIN | 0.67 | VECTOBAC 12AS/VECTOLEX WDG | GALLONS | 2.00 | 8OZ./25LBS./1 ACRE | 37.59870 | -120.93583 |
| 07/13/2012 | 6,4,10,03,06,Z | REFORMA | RESIDENTIAL | 82.00 | AQUAHALT | OUNCE | 45.00 | .55 OZ./1 ACRE | 37.62320 | -120.86099 |
| 05/22/2012 | 6,4,10,15,08,Z | REFORMA | SUMP PUMP | 0.40 | NATULAR 30 T30 | EACH | 4.00 | 1 INGOT./1 ACRE | 37.59276 | -120.86327 |
| 06/22/2012 | 6,4,10,15,08,Z | REFORMA | SUMP PUMP | 2.00 | ALTOSID XR BRIQUETS | EACH | 2.00 | 1 BRIQ./1 ACRE | 37.59276 | -120.86327 |

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| 07/19/2012 | 7,6,09,15,03,Z | OLIVEIRA | RESIDENTIAL | 309.00 | PYROCID 12% | OUNCE | 401.00 | 1.28 OZ/1ACRE | 37.41912 | -120.96633 |
| 09/14/2012 | 8,3,07,32,01,Z | HAILE | AG LAND | 110.00 | PYROCID 12% | OUNCE | 143.00 | 1.28 OZ/1ACRE | 37.63622 | -121.21729 |
| 09/07/2012 | 8,4,07,04,01,Z | HAILE | AG LAND | 70.00 | PYROCID 12% | OUNCE | 91.00 | 1.28 OZ/1ACRE | 37.61943 | -121.19222 |
| 09/14/2012 | 8,4,07,04,01,Z | HAILE | AG LAND | 100.00 | PYROCID 12% | OUNCE | 130.00 | 1.28 OZ/1ACRE | 37.61943 | -121.19222 |
| 09/19/2012 | 8,4,07,16,01, | HAILE | AG LAND | 200.00 | PYROCID 12% | OUNCE | 260.00 | 1.28 OZ/1ACRE | 37.60198 | -121.18555 |
| 10/08/2012 | 8,4,07,16,01, | HAILE | AG LAND | 175.00 | PYROCID 12% | OUNCE | 227.50 | 1.28 OZ/1ACRE | 37.60198 | -121.18555 |
| 09/14/2012 | 8,4,07,22,01,Z | HAILE | TOWN OF GRAYSON | 40.00 | PYROCID 12% | OUNCE | 52.00 | 1.28 OZ/1ACRE | 37.57792 | -121.17772 |
| 05/31/2012 | 8,4,07,22,01,Z | HAILE | TOWN OF GRAYSON | 40.00 | PYROCID 12% | OUNCE | 52.00 | 1.28 OZ/1ACRE | 37.57792 | -121.17772 |
| 07/20/2012 | 8,4,07,22,01,Z | HAILE | MAN MADE WETLANDS | 120.00 | PYROCID 12% | OUNCE | 156.00 | 1.28 OZ/1ACRE | 37.57792 | -121.17772 |
| 09/07/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 100.00 | PYROCID 12% | OUNCE | 130.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 09/28/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 250.00 | PYROCID 12% | OUNCE | 325.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 07/20/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 400.00 | PYROCID 12% | OUNCE | 520.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 05/31/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 290.00 | PYROCID 12% | OUNCE | 377.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 09/14/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 170.00 | PYROCID 12% | OUNCE | 221.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 08/17/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 140.00 | PYROCID 12% | OUNCE | 182.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 07/06/2012 | 8,4,07,23,01,Z | HAILE | MAN MADE WETLANDS | 54.60 | PYROCID 12% | OUNCE | 71.00 | 1.28 OZ/1ACRE | 37.57690 | -121.16012 |
| 05/29/2012 | 8,4,07,23,10,A | HAILE | MAN MADE WETLANDS | 3.33 | BVA 2 | GALLONS | 10.00 | 4 GAL./1 ACRE | 37.57262 | -121.17203 |
| 05/23/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 6.00 | ALTOSID XR-G | POUNDS | 40.00 | 5 LBS./1 ACRE | 37.57294 | -121.15981 |
| 09/05/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 5.00 | VECTOBAC 12 AS | GALLONS | 15.00 | .25 GAL./1 ACRE | 37.57294 | -121.15981 |
| 06/12/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 9.00 | BVA 2 | GALLONS | 27.00 | 4 GAL./1 ACRE | 37.57294 | -121.15981 |
| 05/01/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 0.50 | FISH | POUNDS | 2.50 | 1 LBS/1 ACRE | 37.57294 | -121.15981 |
| 07/31/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 4.00 | VECTOBAC 12AS/VECTOLEX WDG | GALLONS | 12.00 | 8OZ./25LBS./1 ACRE | 37.57294 | -121.15981 |
| 06/18/2012 | 8,4,07,23,17,A | HAILE | MAN MADE WETLANDS | 8.00 | VECTOBAC 12 AS | GALLONS | 2.40 | .25 GAL./1 ACRE | 37.57294 | -121.15981 |
| 06/18/2012 | 8,4,07,23,17,B | HAILE | MAN MADE WETLANDS | 4.00 | ALTOSID ALL | GALLONS | 12.00 | 3.9 OZ./1 ACRE | 37.57272 | -121.15948 |
| 05/29/2012 | 8,4,07,23,20,A | HAILE | MAN MADE WETLANDS | 6.00 | BVA 2 | GALLONS | 18.00 | 4 GAL./1 ACRE | 37.57249 | -121.17057 |
| 05/30/2012 | 8,4,07,23,21,A | HAILE | MAN MADE WETLANDS | 8.00 | BVA 2 | GALLONS | 24.00 | 4 GAL./1 ACRE | 37.57131 | -121.16926 |
| 05/29/2012 | 8,4,07,23,22,A | HAILE | MAN MADE WETLANDS | 4.66 | BVA 2 | GALLONS | 14.00 | 4 GAL./1 ACRE | 37.57085 | -121.17145 |
| 08/01/2012 | 8,4,07,23,27,A | HAILE | MAN MADE WETLANDS | 2.00 | VECTOBAC 12 AS | GALLONS | 6.00 | .25 GAL./1 ACRE | 37.56711 | -121.17298 |
| 05/31/2012 | 8,4,07,25,01,Z | HAILE | RESIDENTIAL | 30.00 | PYROCID 12% | OUNCE | 39.00 | 1.28 OZ/1ACRE | 37.56428 | -121.14750 |
| 09/07/2012 | 8,4,07,25,07,Z | HAILE | DAIRY | 30.00 | PYROCID 12% | OUNCE | 39.00 | 1.28 OZ/1ACRE | 37.56359 | -121.15415 |
| 08/01/2012 | 8,4,07,25,23,A | HAILE | MAN MADE WETLANDS | 4.00 | VECTOBAC 12 AS | GALLONS | 12.00 | .25 GAL./1 ACRE | 37.55557 | -121.15360 |
| 08/20/2012 | 8,4,07,25,23,A | HAILE | MAN MADE WETLANDS | 3.80 | BVA 2 | GALLONS | 11.40 | 4 GAL./1 ACRE | 37.55557 | -121.15360 |
| 06/04/2012 | 8,4,07,25,23,A | HAILE | MAN MADE WETLANDS | 4.00 | VECTOBAC 12 AS | GALLONS | 12.00 | .25 GAL./1 ACRE | 37.55557 | -121.15360 |
| 06/05/2012 | 8,4,07,25,23,B | HAILE | MAN MADE WETLANDS | 4.00 | VECTOBAC 12 AS | GALLONS | 12.00 | .125 GAL./1 ACRE | 37.55642 | -121.15541 |
| 08/01/2012 | 8,4,07,25,23,C | HAILE | MAN MADE WETLANDS | 4.00 | ALTOSID ALL | GALLONS | 12.00 | 3.9 OZ./1 ACRE | 37.55673 | -121.15551 |
| 07/26/2012 | 8,4,07,25,30,A | HAILE | MAN MADE WETLANDS | 1.20 | VECTOBAC 12 AS | GALLONS | 3.60 | .25 GAL./1 ACRE | 37.55425 | -121.14568 |
| 08/20/2012 | 8,4,07,25,30,A | HAILE | MAN MADE WETLANDS | 4.30 | VECTOBAC 12 AS | GALLONS | 12.90 | .25 GAL./1 ACRE | 37.55425 | -121.14568 |
| 05/03/2012 | 8,4,07,25,30,A | HAILE | MAN MADE WETLANDS | 5.00 | FISH | POUNDS | 2.50 | 1 LBS/1 ACRE | 37.55425 | -121.14568 |
| 08/15/2012 | 8,4,07,26,01, | HAILE | MAN MADE WETLANDS | 185.00 | PYROCID 12% | OUNCE | 240.50 | 1.28 OZ/1ACRE | 37.56460 | -121.15927 |
| 08/03/2012 | 8,4,07,26,01, | HAILE | MAN MADE WETLANDS | 40.00 | PYROCID 12% | OUNCE | 52.00 | 1.28 OZ/1ACRE | 37.56460 | -121.15927 |
| 09/13/2012 | 8,4,07,26,01, | HAILE | MAN MADE WETLANDS | 30.00 | PYROCID 12% | OUNCE | 39.00 | 1.28 OZ/1ACRE | 37.56460 | -121.15927 |
| 08/22/2012 | 8,4,07,26,04,A | HAILE | MAN MADE WETLANDS | 0.90 | BVA 2 | GALLONS | 2.70 | 4 GAL./1 ACRE | 37.56517 | -121.16546 |
| 08/22/2012 | 8,4,07,26,14,A | HAILE | MAN MADE WETLANDS | 8.00 | ALTOSID ALL | GALLONS | 24.00 | 3.9 OZ./1 ACRE | 37.55923 | -121.16283 |
| 08/01/2012 | 8,4,07,26,14,A | HAILE | MAN MADE WETLANDS | 1.00 | BVA 2 | GALLONS | 3.00 | 4 GAL./1 ACRE | 37.55923 | -121.16283 |
| 08/01/2012 | 8,4,07,26,14,A | HAILE | MAN MADE WETLANDS | 6.00 | BVA 2 | GALLONS | 18.00 | 4 GAL./1 ACRE | 37.55923 | -121.16283 |
| 08/22/2012 | 8,4,07,26,14,A | HAILE | MAN MADE WETLANDS | 2.00 | ALTOSID ALL | GALLONS | 6.00 | 3.9 OZ./1 ACRE | 37.55923 | -121.16283 |
| 06/08/2012 | 8,4,07,26,23,C | HAILE | MAN MADE WETLANDS | 4.00 | VECTOBAC 12AS/VECTOLEX WDG | GALLONS | 12.00 | 8OZ./25LBS./1 ACRE | 37.55807 | -121.17226 |

| | | | | | | | | | | |
|------------|----------------|-------|-------------------|--------|----------------------------|---------|--------|--------------------|----------|------------|
| 05/31/2012 | 8,4,07,27,01,Z | HAILE | TOWN OF GRAYSON | 50.00 | PYROCID 12% | OUNCE | 65.00 | 1.28 OZ/1ACRE | 37.56559 | -121.17770 |
| 09/14/2012 | 8,4,07,27,01,Z | HAILE | TOWN OF GRAYSON | 120.00 | PYROCID 12% | OUNCE | 156.00 | 1.28 OZ/1ACRE | 37.56559 | -121.17770 |
| 10/12/2012 | 8,4,07,27,01,Z | HAILE | TOWN OF GRAYSON | 140.00 | PYROCID 12% | OUNCE | 182.00 | 1.28 OZ/1ACRE | 37.56559 | -121.17770 |
| 09/17/2012 | 8,4,08,01,01,Z | HAILE | RESIDENTIAL | 80.00 | PYROCID 12% | OUNCE | 104.00 | 1.28 OZ/1ACRE | 37.61125 | -121.03973 |
| 09/17/2012 | 8,4,08,11,01,Z | HAILE | RESIDENTIAL | 110.00 | PYROCID 12% | OUNCE | 143.00 | 1.28 OZ/1ACRE | 37.60812 | -121.05063 |
| 10/12/2012 | 8,4,08,20,19,Z | HAILE | RESIDENTIAL | 20.00 | PYROCID 12% | OUNCE | 26.00 | 1.28 OZ/1ACRE | 37.57061 | -121.10910 |
| 10/08/2012 | 8,4,08,20,20,Z | HAILE | RESIDENTIAL | 60.00 | PYROCID 12% | OUNCE | 78.00 | 1.28 OZ/1ACRE | 37.57398 | -121.11234 |
| 10/10/2012 | 8,4,08,29,01,Z | HAILE | MAN MADE WETLANDS | 140.00 | PYROCID 12% | OUNCE | 182.00 | 1.28 OZ/1ACRE | 37.55930 | -121.11787 |
| 07/06/2012 | 8,4,08,29,01,Z | HAILE | MAN MADE WETLANDS | 76.90 | PYROCID 12% | OUNCE | 100.00 | 1.28 OZ/1ACRE | 37.55930 | -121.11787 |
| 05/31/2012 | 8,4,08,29,25,A | HAILE | MAN MADE WETLANDS | 2.00 | VECTOBAC 12 AS | GALLONS | 6.00 | .25 GAL./1 ACRE | 37.55449 | -121.11960 |
| 10/10/2012 | 8,4,08,30,01, | HAILE | MAN MADE WETLANDS | 100.00 | PYROCID 12% | OUNCE | 130.00 | 1.28 OZ/1ACRE | 37.56574 | -121.12218 |
| 05/14/2012 | 8,4,08,30,08,Z | HAILE | MAN MADE WETLANDS | 5.00 | VECTOBAC 12 AS | GALLONS | 15.00 | .125 GAL./1 ACRE | 37.56384 | -121.13859 |
| 07/25/2012 | 8,4,08,30,14,A | HAILE | MAN MADE WETLANDS | 2.00 | VECTOBAC 12 AS | GALLONS | 6.00 | .25 GAL./1 ACRE | 37.55894 | -121.12808 |
| 06/07/2012 | 8,4,08,30,14,A | HAILE | MAN MADE WETLANDS | 12.00 | ALTOSID XR-G | POUNDS | 60.00 | 5 LBS./1 ACRE | 37.55894 | -121.12808 |
| 06/07/2012 | 8,4,08,30,14,C | HAILE | MAN MADE WETLANDS | 16.00 | ALTOSID XR-G | POUNDS | 80.00 | 5 LBS./1 ACRE | 37.55834 | -121.12808 |
| 07/25/2012 | 8,4,08,30,14,C | HAILE | MAN MADE WETLANDS | 2.00 | VECTOBAC 12 AS | GALLONS | 6.00 | .25 GAL./1 ACRE | 37.55834 | -121.12808 |
| 06/07/2012 | 8,4,08,30,15,A | HAILE | MAN MADE WETLANDS | 12.00 | ALTOSID XR-G | POUNDS | 60.00 | 5 LBS./1 ACRE | 37.55834 | -121.12365 |
| 06/11/2012 | 8,4,08,30,17,A | HAILE | MAN MADE WETLANDS | 2.00 | BVA 2 | GALLONS | 6.00 | 4 GAL./1 ACRE | 37.55751 | -121.12307 |
| 07/25/2012 | 8,4,08,30,17,A | HAILE | MAN MADE WETLANDS | 0.70 | VECTOBAC 12 AS | GALLONS | 2.10 | .25 GAL./1 ACRE | 37.55751 | -121.12307 |
| 06/07/2012 | 8,4,08,30,18,A | HAILE | MAN MADE WETLANDS | 8.00 | VECTOBAC 12 AS | GALLONS | 24.00 | .125 GAL./1 ACRE | 37.55773 | -121.12603 |
| 05/16/2012 | 8,4,08,30,27,C | HAILE | MAN MADE WETLANDS | 5.00 | FISH | POUNDS | 2.50 | 1 LBS/1 ACRE | 37.55243 | -121.13557 |
| 05/30/2012 | 8,4,08,30,27,C | HAILE | MAN MADE WETLANDS | 4.00 | BVA 2 | GALLONS | 12.00 | 4 GAL./1 ACRE | 37.55243 | -121.13557 |
| 06/21/2012 | 8,4,08,30,27,C | HAILE | MAN MADE WETLANDS | 3.66 | VECTOBAC 12 AS | GALLONS | 11.00 | .25 GAL./1 ACRE | 37.55243 | -121.13557 |
| 06/12/2012 | 8,4,08,30,29,A | HAILE | MAN MADE WETLANDS | 5.00 | VECTOBAC 12 AS | GALLONS | 15.00 | .125 GAL./1 ACRE | 37.55401 | -121.12958 |
| 06/21/2012 | 8,4,08,31,05,A | HAILE | MAN MADE WETLANDS | 4.00 | BVA 2 | GALLONS | 12.00 | 4 GAL./1 ACRE | 37.55111 | -121.13196 |
| 06/21/2012 | 8,4,08,31,08,A | HAILE | MAN MADE WETLANDS | 2.00 | VECTOBAC 12AS/VECTOLEX WDG | GALLONS | 6.00 | 8OZ./25LBS./1 ACRE | 37.55077 | -121.13791 |
| 07/06/2012 | 8,4,08,32,01, | HAILE | MAN MADE WETLANDS | 57.70 | PYROCID 12% | OUNCE | 75.00 | 1.28 OZ/1ACRE | 37.55133 | -121.10344 |
| 10/10/2012 | 8,4,08,32,01, | HAILE | MAN MADE WETLANDS | 100.00 | PYROCID 12% | OUNCE | 130.00 | 1.28 OZ/1ACRE | 37.55133 | -121.10344 |
| 08/15/2012 | 8,4,08,32,01, | HAILE | MAN MADE WETLANDS | 100.00 | PYROCID 12% | OUNCE | 130.00 | 1.28 OZ/1ACRE | 37.55133 | -121.10344 |
| 04/24/2012 | 8,4,08,32,31,Z | HAILE | NATURAL WETLANDS | 1.50 | BVA 2 | GALLONS | 4.50 | 4 GAL./1 ACRE | 37.53889 | -121.10706 |
| 08/15/2012 | 8,4,09,29,01,Z | HAILE | MAN MADE WETLANDS | 250.00 | PYROCID 12% | OUNCE | 325.00 | 1.28 OZ/1ACRE | 37.55920 | -121.11706 |

Monitoring Log Sheet

| | | | |
|-----------------------------|-------------|--------------------|---------------------|
| Agency: | Turlock MAD | Location | 5-8-55-31-A |
| Applicator Name: | Tim Brazil | Water Body: | Pond |
| Date of Application: | 6/28/2012 | | |
| Pesticide | Larvicide | BVA2 | Description: |

Visual Observation

| | Background Monitoring | | | Event Monitoring | | | Post-Event Monitoring | | |
|--|---------------------------------|-------------------------|--------------|---------------------------------|-------------------------|--------------|----------------------------|-------------------------|--------------|
| Date of Monitoring | 6/28/2012 | Time: | 8:30 am | 6/28/2012 | Time: | 10:20 am | 7/3/2012 | Time: | 7:40 am |
| Monitors: | Tim Brazil | | | Tim Brazil | | | Tim Brazil | | |
| Current Weather: | Clear/sunny/None/Calm/Warm/mild | | | Clear/sunny/None/Calm/Warm/mild | | | Clear/sunny/None/Calm/Cool | | |
| Water Color & Clarity: | Colorless/Clear | | | Colorless/Clear | | | Colorless/Clear | | |
| Floating or Suspended Matter: | Not Observed | Bottom Deposits: | Not Observed | Not Observed | Bottom Deposits: | Not Observed | Observed | Bottom Deposits: | Not Observed |
| Aquatic Life: | Observed | Surface Oil: | none | Observed | Surface Oil: | Sheen | Observed | Surface Oil: | none |
| Fungi, Slimes or Objectionable Growths: | Observed | | | Observed | | | Observed | | |
| Other Potential Nuisance: | None | | | None | | | None | | |

Field Measurement

| | | | | | | | |
|---------------------------------|-------------|--|-------------|--|-------------|--|--|
| Water temperature: | | | | | | | |
| Method | Field Inst. | | Field Inst. | | Field Inst. | | |
| Electrical Conductivity: | | | | | | | |
| Method | | | | | | | |
| Dissolved oxygen: | | | | | | | |
| Method | | | | | | | |
| pH: | | | | | | | |
| Method | | | | | | | |
| Turbidity: | | | | | | | |
| Method | | | | | | | |

Monitoring Log Sheet

| | | | |
|-----------------------------|-------------|--------------------|--|
| Agency: | TURLOCK MAD | Location | 4-10-10-06-Z |
| Applicator Name: | RON REFORMA | Water Body: | DISCHARGE POINT Open waterway |
| Date of Application: | 5/22/2012 | | |
| Pesticide | Larvicide | NT30 | Description: SUMP PUMP TREATMENT 4-10-15-08-Z |

| Visual Observation | | | | | | | | | |
|--|---|-------------------------|--------------|---|-------------------------|--------------|---|-------------------------|--------------|
| | Background Monitoring | | | Event Monitoring | | | Post-Event Monitoring | | |
| Date of Monitoring | 5/22/2012 | Time: | 2:07 PM PM | 5/22/2012 | Time: | 2:30 PM | 6/15/2012 | Time: | 9:50 AM |
| Monitors: | RON REFORMA | | | RON REFORMA | | | RON REFORMA | | |
| Current Weather: | Clear/sunny/None/Light breeze/Warm/mild | | | Clear/sunny/None/Light breeze/Warm/mild | | | Clear/sunny/None/Light breeze/Warm/mild | | |
| Water Color & Clarity: | Green/Murky | | | Green/Murky | | | Green/Murky | | |
| Floating or Suspended Matter: | Not Observed | Bottom Deposits: | Not Observed | Not Observed | Bottom Deposits: | Not Observed | Not Observed | Bottom Deposits: | Not Observed |
| Aquatic Life: | Not Observed | Surface Oil: | NONE | Not Observed | Surface Oil: | NONE | Not Observed | Surface Oil: | NONE |
| Fungi, Slimes or Objectionable Growths: | Observed | | | Observed | | | Observed | | |
| Other Potential Nuisance: | None | | | None | | | None | | |

| Field Measurement | | | | | | |
|---------------------------------|-------------|--|-------------|--|-------------|--|
| Water temperature: | | | | | | |
| Method | Field Inst. | | Field Inst. | | Field Inst. | |
| Electrical Conductivity: | | | | | | |
| Method | | | | | | |
| Dissolved oxygen: | | | | | | |
| Method | | | | | | |
| pH: | | | | | | |
| Method | | | | | | |
| Turbidity: | | | | | | |
| Method | | | | | | |