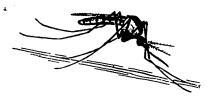
Fresno Mosquito and Vector Control District



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District Manager

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FEBRUARY 22, 2013

STATE WATER BOARD

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RE: ATTACHED FIND THE FMVCD NPDES ANNUAL REPORT

Rory D. McAbee

Biologist

Attachment C consists of six hand-filled pages using the form provided by the Water Board. If there are questions please call me at the office (559) 268-6565

NPDES# CAG 990004

1. Annual Report

a. Executive Summary

Fresno Mosquito & Vector Control 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 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 seven applications to waters of the U.S. during the 2012 calendar year. The log of these applications can be found in Attachment B. The District performed Visual Monitoring of six of these individual application sites identified as "Waters of the US" until July 2012. The visual monitoring completed by the District in the first half of the year found that there is no observable change in water quality between the background, event, and post event time periods-see monitoring log sheets. 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 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.

Map of Applications

See Attachment A

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

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

f. 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.

g. Visual Monitoring Data

Visual Monitoring Data has been submitted to the State Water Board using the form provided by the Water board -Attachment C.

h. 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.

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

A representation of the pesticide application log is contained in Attachment B

2. Updated PAP Components

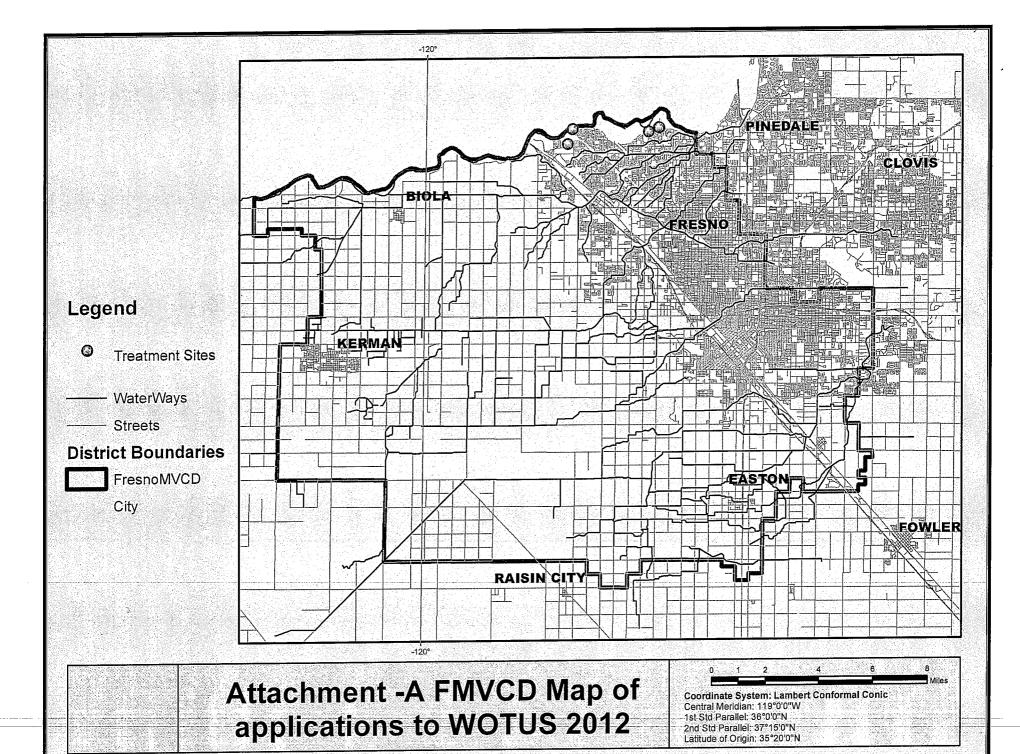
N/A

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.



FRESNO MOSQUITO & VECTOR CONTROL DISTRICT: ATTACHMENT B PESTICIDE APPLICATION TO WOTUS

Date	Emp.	Start Time	End Time	Loc. #	TRS	Map Location	Area Acres	Material Amt.	Material	Latitude	Longitude	Adjacent Water Rodies
6/14/2012	98	1:40 PM	2:00 PM	12	121936	Fresno County	2	1.5 ozs.	Natular 2EC	36.851233	-119.845286	San Joaquin River
6/14/2012		2:15 PM	2:45 PM	10	121933	Fresno County	4	3.25 ozs.	Natular 2EC	36.850227	-119.903018	San Joaquin River
6/20/2012		10:30 AM	11:15 AM	10	121933	Fresno County	4	64 ozs.	Vectobac 12AS	36.850227	-119.903018	San Joaquin River
6/22/2012		1:30 PM	1:50 PM	12	121936	Fresno County	2	1.0 ozs.	Natular 2EC	36.851233	-119.845286	San Joaquin River
7/6/2012	2	1:30 PM	2:00 PM	12	121936	Fresno County	2	10 lbs.	Vectobac G	36.851233	-119.845286	San Joaquin River
7/6/2012	2	2:30 PM	3:00 PM	12	121933	Fresno County	4	15 lbs.	Vectobac G	36.850227	-119.903018	San Joaquin River
7/9/2012	7	10:30 AM	11:00 AM	20	121933	Fresno county	3	2.0 ozs.	Natular 2EC	36.842363	-119.90587	San Joaquin River



	ERESNO MOSQUIFO + VC	CD Location/TRS - Site No 36.851233 -1/9,845286
Agency	7,203.0	Water Body Name FLOOD CONTROL Q FIG GARDEN CA.C.
Applicator Name	MAR SHUTTER TO	Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
Date of Application	6-14-12	□ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond
Pesticide Type	M Larvicide Adulticide	□ Marsh/Wetland □ Native Ground/Rangeland 當Constructed Wetland/Pond FC
Pesticide Name	NATULAR 2 EC	

	·	Event Monitoring	Post-Event Monitoring
	Background Monitoring		6-18-12 10:10AM
Monitoring Date -Time	6-14-12 9:30 AM	6-14-12 1140 pm	GARY 13405
Monitor Name (s)	GARY BYDE	C74119 139116	
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Precipitation M/A	□ Foggy □ Drizzle □ Intermittent showers □ Steady rain	□ Foggy □ Drizzle □ Intermittent showers □ Steady rain	⊮Calm □ Light breeze □ Gusty □ Cool □ Warm ⊮Hot
Wind & Temperature	□ Calm Light breeze □ Gusty □ Cool Warm □ Hot	Caim in Light breeze & Gusty in Good in Transfer	
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	□ Fungi, slimes, or objectionable growths	□ Fungi, slimes, or objectionable growths	□ Other potential nuisance:
	□ Other potential nuisance:	□ Other potential nuisance:	1

Applicator Name Mank Shuttena #98 Water Body Name FC @ S J Niver & Trestle Water Body Type Creek/Stream Slough/Natural Drain River Pesticide Type Pesticide Type Water Body Type Riparian Seepage/Depression Vernal Pool Natural or Recharge Pond			
Applicator Name Mank Shuffena # 98 Water Body Name FC @ S O Riven & Inestruction Water Body Type Creek/Stream Slough/Natural Drain River Water Body Type Creek/Stream Slough/Natural Drain River Pesticide Type Pesticide Type Riparian Seepage/Depression Vernal Pool Natural or Recharge Pond March/Wetland Native Ground/Rangeland Constructed Wetland/Pond FC	Aronav	FASSING MASSINGS OLVED	
Date of Application 6-14-12 Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River Pesticide Type □ Elarvicide □ Adulticide □ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond □ Moreb/Wetland □ Native Ground/Rangeland □ Constructed Wetland/Pond		4 30	Water Body Name FC @ SJ RIVER & TRESTLE
Pesticide Type			Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
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	Pesticide Type Pesticide Name	NATULAR 2EC	□ Marsh/Wetland □ Native Ground/Rangeland ಈ Constructed Wetland/Pond FC

	Background Monitoring	Event Monitoring	Post-Event Monitoring
Monitoring Date -Time	6-14-12 10:00AM	6-14-12 2:15 pm	6-18-12 9:25 AM
Monitor Name (s)	GARY BYRE	CHANG BYNE	GARY BYSE
√ ALL that apply ↓			
Current Weather: Sky	Clear/sunny - Partly cloudy - Overcast - Hazy		
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	#Aquatic life WATEN BEETLES	□ Water surface oils	□ Water surface oils
	□ Water surface oils	□ Fungi, slimes, or objectionable growths	□ Fungi, slimes, or objectionable growths
	□ Fungi, slimes, or objectionable growths □ Other potential nuisance:	Other potential nuisance:	□ Other potential nuisance:

		1/0 0070/6
	FRESNO MOSQUITO & VCD	Location/TRS - Site No 36. 850227 -/19. 9030/8
Agency	Roy BENAVINES #7	Water Body Name FC@S5Riven & TRESTLE
Applicator Name	6-20-12	Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
Date of Application		□ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond
Pesticide Type	⊌Larvicide □ Adulticide	□ Marsh/Wetland □ Native Ground/Rangeland the Constructed Wetland/Pond
Pesticide Name	VECTORAL 12AS	E Maion/Volaira 2 (1885)

	Background Monitoring	Event Monitoring	Post-Event Monitoring
	Background Monitoring	6-20-12 10:30 AM	6-22-12 1:30 pm
Monitoring Date -Time			ROY BENAVINES
Monitor Name (s)	ROY BUNDAVIDES	ROY BENAVINES	1/204 -341/201953
√ ALL that apply ↓			Destinate de Overeget d'Herry
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		□ Water surface oils	□ Water surface oils
	□ Water surface oils	□ Fungi, slimes, or objectionable growths	□ Fungi, slimes, or objectionable growths
	□ Fungi, slimes, or objectionable growths		□ Other potential nuisance:
	n Other potential nuisance:	Other potential nuisance:	Other perential national

Agoncy	FALSNO MOSQUITO & VED	Location/TRS - Site No 36, 851233 -/19, 845286
Agency Applicator Name	MONICA PALOMO #104	Water Body Name FLOOD CONTROL @ FIR GARDEN G.C
Date of Application	6-22-12	Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
Pesticide Type		□ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond
Pesticide Name	NATULAR ZEC	□ Marsh/Wetland □ Native Ground/Rangeland ♣ Constructed Wetland/Pond —

	Background Monitoring	Event Monitoring	Post-Event Monitoring
Monitoring Date -Time	1 10 10 10 10 10	6-22-12 1:30pm	6-25-12 10:30AM
Monitor Name (s)	ROY BENAVIOUS	ROY BENAVINES	ROY BENAVIALS
√ ALL that apply ↓			
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	□ Fungi, slimes, or objectionable growths	□ Fungi, slimes, or objectionable growths	Fungi, slimes, or objectionable growths
		Other potential nuisance:	□ Other potential nuisance:

	Location/TRS - Site No 36, 851233 -119, 845286
Agency FRESNO TISSECTION TO THE	Water Body Name FC @ FIG GARDEN GOLF
Applicator Name CTARY 13405	Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
Date of Application 7-6-12	□ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond
Pesticide Type	□ Marsh/Wetland □ Native Ground/Rangeland 🖟 Constructed Wetland/Pond
Pesticide Name VECTOBAC G	

		Event Monitoring	Post-Event Monitoring
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Monitoring Date -Time	7-6-12 9:00 AM	7-6-12 1:30 PM GANY BYDE	ROY BENAVINES
Monitor Name (s)	ROY BENAVIOUS	C/X/27 .07.55	
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	Other potential nuisance:	Other potential nationals.	*

- 1/CD	Location/TRS - Site No 36, 850227 -119, 903018
Agency FRESNO 1105QUII 5 4 2	Water Body Name FC@ STRIVER & TRESTLE
Applicator Name CTANY 13485 #2	Water Body Type □ Creek/Stream □ Slough/Natural Drain □ River
Date of Application 7-6-12	□ Riparian Seepage/Depression □ Vernal Pool □ Natural or Recharge Pond
Pesticide Type Larvicide - Adulticide	□ Marsh/Wetland □ Native Ground/Rangeland ★ Constructed Wetland/Pond
Pesticide Name VECTOBAC CT	

	Background Monitoring	Event Monitoring	Post-Event Monitoring 7-10-12 8:30 pm
Monitoring Date -Time	7-6-12 8:00 AM	7-6-12 2:30 PM GARY 134DE	7-10-12 8:30AM ROY BENAVIDES
Monitor Name (s)	ROY BENAVINES	CHART TOTAL	
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	□ Other potential nuisance:		**