

**ATTACHMENT E – NOTICE OF INTENT**

**WATER QUALITY ORDER 2016-XXXX-DWQ  
GENERAL PERMIT CAG990004**

**STATEWIDE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT  
FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES  
TO WATERS OF THE UNITED STATES  
FROM VECTOR CONTROL APPLICATIONS**

**I. NOTICE OF INTENT STATUS (see Instructions)**

Mark only one item	<input checked="" type="checkbox"/> A. New Applicator	<input type="checkbox"/> B. Change of Information: WDID# _____
	<input type="checkbox"/> C. Change of ownership or responsibility: WDID# _____	
	<input type="checkbox"/> D. Enrolled under Order 2011-0002-DWQ: WDID# _____	

**II. DISCHARGER INFORMATION**

A. Name Placer Mosquito and Vector Control District			
B. Mailing Address 2021 Opportunity Drive			
C. City Roseville	D. County Placer	E. State CA	F. Zip Code 95678
G. Contact Person Joel Buettner	H. Email address joelb@placermosquito.org	I. Title General Manager	J. Phone (916) 380-5444

**III. BILLING ADDRESS (Enter Information only if different from Section II above)**

A. Name			
B. Mailing Address			
C. City	D. County	E. State	F. Zip Code
G. Email address	H. Title	I. Phone	

**IV. RECEIVING WATER INFORMATION**

A. Biological and residual pesticides discharge to (check all that apply)\*:

1. Canals, ditches, or other constructed conveyance facilities owned and controlled by Discharger.  
Name of the conveyance system: \_\_\_\_\_

2. Canals, ditches, or other constructed conveyance facilities owned and controlled by an entity other than the Discharger.  
Owner's name: Various - See attachment A  
Name of the conveyance system: Applications may be made to various conveyance systems within Placer County.

3. Directly to river, lake, creek, stream, bay, ocean, etc.  
Name of water body: Various- See attachment A

\* A map showing the affected areas for items 1 to 3 above may be included.

B. Regional Water Quality Control Board(s) where application areas are located  
(REGION 1, 2, 3, 4, 5, 6, 7, 8, or 9): Region 5 and 6  
(List all regions where pesticide application is proposed.)

A map showing the locations of A1-A3 in each Regional Water Board shall be included.

**V. PESTICIDE APPLICATION INFORMATION**

A. Target Organisms:  Vector Larvae       Adult Vector

B. Pesticides Used: List name, active ingredients and, if known, degradation by-products

See attachment B

C. Period of Application: Start Date January 1      End Date December 31

D. Types of Adjuvants Added by the Discharger:

**VI. PESTICIDES APPLICATION PLAN**

A. Has a Pesticides Application Plan been prepared?\*

Yes       No

If not, when will it be prepared? \_\_\_\_\_

\* A copy of the Pesticides Application Plan shall be included with the NOI.

B. Is the applicator familiar with its contents?

Yes       No

**VII. NOTIFICATION**

Have potentially affected governmental agencies been notified?

Yes       No

\* If yes, a copy of the notifications shall be attached to the NOI. See attachments C and D

**VIII. FEE**

Have you included payment of the filing fee (for first-time enrollees only) with this submittal?

Yes       NO       NA

**IX. CERTIFICATION**

"I certify under penalty of law that this document and all attachments were prepared under my direction and supervision in accordance with a system designed to ensure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Additionally, I certify that the provisions of the Order, including developing and implementing a monitoring program, will be complied with."

A. Printed Name: Joel Buettner

B. Signature: 

Date: 3/31/2016

C. Title: General Manager

**X. FOR STATE WATER BOARD USE ONLY**

WDID:	Date NOI Received:	Date NOI Processed:
Case Handler's Initial:	Fee Amount Received: \$	Check #:

## INSTRUCTIONS FOR COMPLETING THE NOTICE OF INTENT

### WATER QUALITY ORDER 2016-XXXX-DWQ GENERAL PERMIT CAG990004

### STATEWIDE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT FOR BIOLOGICAL AND RESIDUAL PESTICIDE DISCHARGES TO WATERS OF THE UNITED STATES FROM VECTOR CONTROL APPLICATIONS

These instructions are intended to help you, the Discharger, to complete the Notice of Intent (NOI) form for the Statewide General National Pollutant Discharge Elimination System (NPDES) permit. **Please type or print clearly when completing the NOI form.** For any field, if more space is needed, submit a supplemental letter with the NOI.

Send the completed and signed form along with the filing fee and supporting documentation to the State Water Resources Control Board (State Water Board).

#### **Section I – Notice of Intent Status**

Indicate whether this request is for the first time coverage under this Order or a change of information for the discharge already covered under this Order. For a change of information or ownership, please supply the eleven-digit Waste Discharge Identification (WDID) number for the discharge.

#### **Section II – Discharger Information**

- A. Enter the name of the Discharger.
- B. Enter the street number and street name where correspondence should be sent (P.O. Box is acceptable).
- C. Enter the city that applies to the mailing address given.
- D. Enter the county that applies to the mailing address given.
- E. Enter the state that applies to the mailing address given.
- F. Enter the zip code that applies to the mailing address given.
- G. Enter the name (first and last) of the contact person.
- H. Enter the email address of the contact person.
- I. Enter the contact person's title.
- J. Enter the daytime telephone number of the contact person.

#### **Section III – Billing Address**

Enter the information **only** if it is different from Section II above.

- A. Enter the name (first and last) of the person who will be responsible for the billing.
- B. Enter the street number and street name where the billing should be sent (P.O. Box is acceptable).
- C. Enter the city that applies to the billing address.
- D. Enter the county that applies to the billing address.

- E. Enter the state that applies to the billing address.
- F. Enter the zip code that applies to the billing address.
- G. Enter the email address of the person responsible for billing.
- H. Enter the title of the person responsible for billing.
- I. Enter the daytime telephone number of the person responsible for billing.

**Section IV – Receiving Water Information**

- A. Check all boxes that apply. At least one box must be checked.
  - 1. Check this box if the application area is a canal, ditch, or other constructed conveyance system owned and controlled by the Discharger. Print the name of the conveyance system.
  - 2. Check this box if the application area is a canal, ditch, or other constructed conveyance system owned and controlled by an entity other than the Discharger. Print the name of the owner and the name of the conveyance system..
  - 3. Check this box if the application area is to the river, lake, creek, stream, bay, ocean, etc. Print the name of the water body.
- B. List all Regional Water Board numbers where pesticide application is proposed. Regional Water Board boundaries are defined in section 13200 of the California Water Code. The boundaries can also be found on our website at [http://www.waterboards.ca.gov/waterboards\\_map.shtml](http://www.waterboards.ca.gov/waterboards_map.shtml). The numbers with corresponding Regional Water Board names are given below:

<b>Regional Water Board Numbers</b>	<b>Regional Water Board Names</b>
1	North Coast
2	San Francisco Bay
3	Central Coast
4	Los Angeles
5	Central Valley (Includes Sacramento, Fresno, Redding Offices)
6	Lahontan (South Lake Tahoe, Victorville offices)
7	Colorado River Basin
8	Santa Ana
9	San Diego

**Section V – Pesticide Application Information**

- A. Check the appropriate target organism.
- B. List the name and active ingredients of each pesticide to be used.
- C. List the start and end date of proposed pesticide application event.
- D. List the name(s) and type(s) of adjuvants added by the Discharger.

**Section VI – Pesticides Application Plan**

The Discharger must prepare and complete a Pesticides Application Plan (PAP). The minimum contents of PAP are specified in the permit under item VIII.C of the Order. The Discharger must ensure that its applicator is familiar with the PAP contents before pesticide application.

If a PAP is not complete at the time of application, enter the date by which it will be completed.

**Section VII – Notification**

Have you notified potentially affected governmental agencies, as required under item VIII.B of the Order?

If yes, a copy of the notifications shall be attached to the NOI.

**Section VIII – Fee**

The amount of fee shall be based on section 2200(b)(6) of title 23, California Code of Regulations. Fee information can be found at <http://www.waterboards.ca.gov/resources/fees/> - npdes. Check the YES box if you have included payment of the fee. Check the NO box if you have not included this payment.

**Section IX– Certification**

- A. Print the name of the appropriate official. For a municipality, State, federal, or other public agency, this would be a principal executive officer, ranking elected official, or duly authorized representative. The principal executive officer of a federal agency includes the chief executive officer of the agency or the senior executive officer having responsibility for the overall operations of a principal geographic unit of the agency (e.g., Regional Administrator of U.S. EPA).
- B. The person whose name is printed above must sign and date the NOI.
- C. Enter the title of the person signing the NOI.

**Endangered Species Act**

This Order does not authorize any act that results in the taking of a threatened or endangered species or any act that is now prohibited, or becomes prohibited in the future, under either the California Endangered Species Act (Fish and Game Code sections 2050 et seq.) or the Federal Endangered Species Act (16 U.S.C. sections 1531 et seq.). This Order requires compliance with effluent limitations, receiving water limitations, and other requirements to protect the beneficial uses of waters of the state. The Discharger is responsible for meeting all requirements of the applicable Endangered Species Act.

Additional information on federally-listed threatened or endangered species and federally-designated critical habitat is available from the National Marine Fisheries Service ([www.nmfs.noaa.gov](http://www.nmfs.noaa.gov)) for anadromous or marine species or the U.S. Fish and Wildlife Service ([www.fws.gov](http://www.fws.gov)) for terrestrial or freshwater species.

**Section 303(d) List**

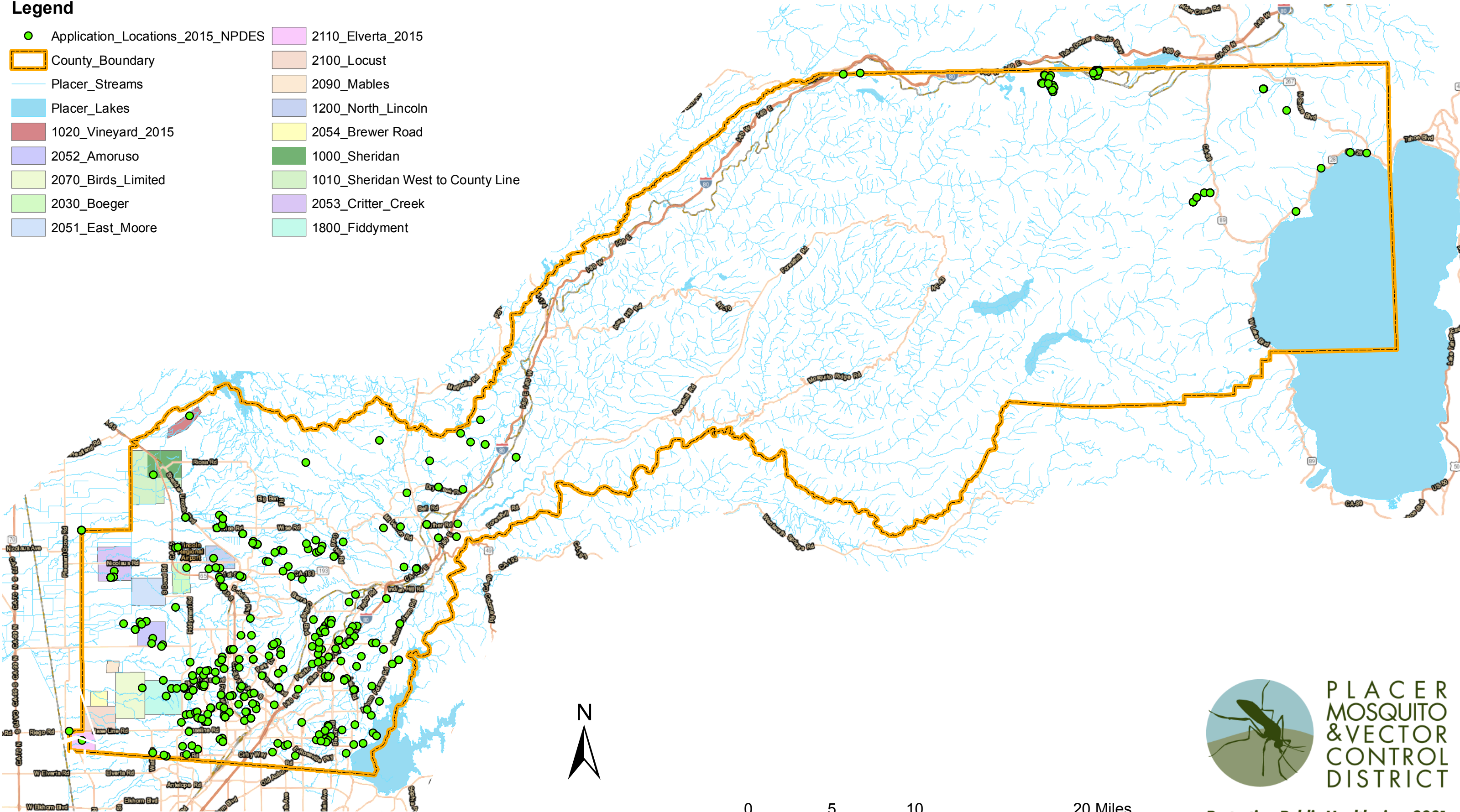
This Order does not authorize the discharge of biological and residual pesticides or their breakdown by-products to waters of the U.S. that are impaired by the same pesticide active ingredient. Impaired waters are those waters not meeting quality standards pursuant to section 303(d) of the CWA. California impaired waters, as approved by the State Water Board, are listed on

[http://gispublic.waterboards.ca.gov/webmap/303d\\_2012/files/2012\\_USEPA\\_approv\\_303d\\_List\\_Final\\_20150807.xlsx](http://gispublic.waterboards.ca.gov/webmap/303d_2012/files/2012_USEPA_approv_303d_List_Final_20150807.xlsx)

# Attachment A: 2015 Locations of Applications to WOTUS

## Legend

- Application\_Locations\_2015\_NPDES
- County\_Boundary
- Placer\_Streams
- Placer\_Lakes
- 1020\_Vineyard\_2015
- 2052\_Amoruso
- 2070\_Birds\_Limited
- 2030\_Boeger
- 2051\_East\_Moore
- 2110\_Elverta\_2015
- 2100\_Locust
- 2090\_Mables
- 1200\_North\_Lincoln
- 2054\_Brewer\_Road
- 1000\_Sheridan
- 1010\_Sheridan West to County Line
- 2053\_Critter\_Creek
- 1800\_Fiddymont



**PLACER  
MOSQUITO  
& VECTOR  
CONTROL  
DISTRICT**

*Protecting Public Health since 2001*



**Attachment B**

**Sacramento-Yolo MVCD NOI**

**V. Pesticide Application Information**

**List of Active Ingredients that may be used under NPDES Permit.**

<b>Active Ingredient</b>
Bacillus thuringiensis var. israelensis
Bacillus sphaericus (Lysinibacillus sphaericus)
Deltamethrin
Etofenprox
Lambda-Cyhalothrin
Malathion
Methoprene
Monomolecular Films
Naled
N-octyl Bicycloheptene Dicarboximide (MGK-264)
Petroleum Distillates
Permethrin
Piperonyl butoxide
Prallethrin
Pyrethrin
Resmethrin
Spinosad
Sumithrin
Temephos
Any "minimum risk category" pesticides that are FIFRA exempt and registered for use in California and used in a manner specified in 40 C.F.R. section 152.25.

Attachment C – Notification List

<b>Agency Name</b>	<b>Contact Name</b>	<b>Title</b>	<b>Email</b>
Placer County Resource and Conservation District	Rick Gruen	District Manager	pcrcd@sbcglobal.net
CA Dept. of Fish and Game	Kent Smith	North Central Regional Manager	R2Info@dfg.ca.gov
US Fish and Wildlife	Ren Lohofener	Regional Director, Pacific Southwest	rustico_bigalbal@fws.gov
Nevada Irrigation District	Ron Nelson	General Manager	admindepartment@nid.dst.ca.us
Placer County Water Agency	Einar Maisch	General Manager	clerk@pcwa.net
Tahoe Regional Planning Agency	Joanne Marchetta	Executive Director	jmarchetta@trpa.org
Tahoe City PUD	Cindy Gustafson	Manager	cindyg@tcpud.org
North Tahoe Public Utilities District	Duane Whitelaw	General Manager/Ceo	ntpud@ntpud.org
Placer County Office of Education	Gayle Garbolino-Mojica	Superintendent	ggarbolino@placercoe.k12.ca.us
Placer County Board of Supervisors	Gina Fleming	Clerk of the Board	bos@placer.ca.gov
Placer County	Ken Grehm	County Public Works, Deputy Director	publicworks@placer.ca.gov
Placer County	Paul Thompson	County Planning, Director	planning@placer.ca.gov
Placer County Health and Human Services	Jeffrey Brown	Dept Director	jbrown@placer.ca.gov
Placer County Health and Human Services	Wesley Nicks	Director Community Health	wnicks@placer.ca.gov
Placer County Agricultural Commission	Joshua Huntsinger	Ag Commissioner	placerag@placer.ca.gov
Foresthill Forum	Jocelyn Maddux	Field Representative	jmaddux@placer.ca.gov
Granite Bay MAC	Linda Brown	Admin Aide	lbrown@placer.ca.gov
Horseshoe Bar MAC	Lean Rosasco	Admin Aide	lrosasco@placer.ca.gov
Meadow Vista MAC	Jocelyn Maddux	Field Representative	jmaddux@placer.ca.gov
Newcastle/Ophir MAC	Lean Rosasco	Admin Aide	lrosasco@placer.ca.gov
North Auburn MAC	Lean Rosasco	Admin Aide	lrosasco@placer.ca.gov
North Tahoe Regional Advisory Council	Steve Kastan	Admin Aide	skastan@placer.ca.gov
Penryn MAC	Lean Rosasco	Admin Aide	lrosasco@placer.ca.gov
Rural Lincoln MAC	Jennifer Merino	Secretary	jmerino@placer.ca.gov

Attachment C – Notification List

Sheridan Municipal Advisory Council	Jennifer Merino	Secretary	jmerino@placer.ca.gov
Squaw Valley MAC	Steve Kastan	Field Representative	skastan@placer.ca.gov
Weimar/Applegate/Colfax MAC	Jocelyn Maddux	Admin Aide	jmaddux@placer.ca.gov
West Placer MAC	Terri Ivaldi	Field Representative	Tivaldi@placer.ca.gov
West Placer MAC	Christine Rivera	Field Representative	crivera@placer.ca.gov
City of Auburn	Tim Rundel	City Manager	trundel@auburn.ca.gov
City of Colfax	Mark Miller	City Manager	mark.miller@colfax-ca.gov
City of Lincoln	Matthew Brower	City Manager	Mbrower@lincoln.ca.gov
City of Roseville	Ray Kerridge	City Manager	citymanager@roseville.ca.us
City of Rocklin	Ricky Horst	City Manager	ricky.horst@rocklin.ca.us
Town of Loomis	Rick Angelocci	Town Manager	rangelocci@loomis.ca.gov



March 30, 2016

**Notice of Intent to Apply Public Health Pesticides for Vector Control Purposes to Surface Waters and Waters of the U.S. Within Placer County.**

The Placer Mosquito & Vector Control District intends to make public health pesticide applications to, over and adjacent to constructed conveyances, surface waters and other waters of the U.S. owned and controlled by an entity other than the District for vector control purposes per the requirements of the General NPDES Permit for Biological and Residual Pesticide Discharges for Vector Control Applications.

The NPDES Permit requirements for listing of the Public Health Pesticides anticipated to be used were modified from the previous permit, to the new permit which was issued in March 2016 and will be effective in July 2016. The newer requirements specify that any pesticide product can be used that contains approved active ingredients, provided all pesticide label restrictions and instructions are followed. In addition, pesticides which fall under the “minimum risk” category can be used. The minimum risk pesticides have been exempted from FIFRA requirements. The following tables list the active ingredients approved for the FIFRA regulated pesticides.

<b>Active Ingredients for larval mosquito control</b>	<b>Active Ingredients for adult mosquito control</b>
<i>Bacillus thuringiensis</i> subsp. <i>israelensis</i> (Bti)	etofenprox
<i>Bacillus sphaericus</i> (Bs)	jambda-cyhalothrin
methoprene	malathion
monomolecular films	naled
petroleum distillates	N-octyl bicycloheptene dicarboximide (MGK-264)
spinosad	piperonyl butoxide (PBO)
temephos	permethrin
	prallethrin
	pyrethrin
	resmethrin
	sumithrin

**BOARD OF TRUSTEES**

The purpose for the use of larvicide and adulticide pesticides containing these active ingredients is for the control of larval and adult mosquitoes to minimize the threat of mosquito-borne diseases and biting annoyances.

The general time period for the application of the pesticides is January through December, 2016. Locations of expected use will be constructed conveyances, surface waters and other waters of the U.S. located within Placer County.

There are no known water use restrictions or precautions during treatment.

Interested persons may contact the District at 1-800-768-2343 for additional information.

Joel Buettner  
District General Manager

# Placer Mosquito and Vector Control District Pesticide Application Plan 2016

The Discharger shall develop a Pesticides Application Plan (PAP) that contains the following elements:

1. **Description of ALL target areas, if different from the water body of the target area, in to which larvicides and adulticides are being planned to be applied or may be applied to control vectors. The description shall include adjacent areas, if different from the water body of the target areas;**

See attached map

2. **Discussion of the factors influencing the decision to select pesticide applications for mosquito control;**

Please see the [Best Management Practices for Mosquito Control in California](#).

3. **Pesticide products or types expected to be used and if known, their degradation by-products, the method in which they are applied, and if applicable, the adjuvants and surfactants used;**

Please see Attachments E and F within NPDES Permit for Biological and Residual Pesticide Discharges to Waters of the U.S. for Vector Control Applications. Products may be applied by hand, truck, backpack, hand can, helicopter, or aircraft according to label directions.

4. **Description of ALL the application areas\* and the target areas in the system that are being planned to be applied or may be applied. Provide a map showing these areas;**

In areas where source reduction and biological control are not effective or feasible, then public health pesticides are used in the most targeted manner allowed. Treatment areas vary as densities of mosquitoes and West Nile virus vary. The treatment area map from the 2015 NPDES annual report is included as Attachment A as an example of one year's treatment areas.

5. **Other control methods used (alternatives) and their limitations;**

With any source of mosquitoes or other vectors, the Placer Mosquito and Vector Control District's first goal is to look for ways to eliminate the source, or if that is not possible, for ways to reduce the potential for vectors. The most commonly used methods and their limitations are included in the [Best Management Practices for Mosquito Control in California](#).

Specific methods used by the agency include stocking mosquito fish (*Gambusia affinis*), educating residents that mosquitoes develop in standing water and encouraging them to

remove sources of standing water on their property, and working with property owners to find long-term water management strategies that meet their needs while minimizing the need for public health pesticide applications.

**6. How much product is needed and how this amounts was determined;**

The need to apply product is determined by many factors including but not limited to: mosquito abundance, disease surveillance, risk to the public, life stage of the mosquito, mosquito species, time of year, and environmental condition. Actual use varies annually depending on mosquito abundance. The pesticide amounts presented below were the amounts reported on the Placer Mosquito and Vector Control District’s 2015 NPDES report. Other public health pesticides in addition to those listed below may be used as part of the agency’s best management practices. These amounts will change from year to year due to annual variability in required pesticide applications for mosquito control. This data is provided as an example of the products and amounts used in one year.

<b>Active Ingredient and Formulation</b>	<b>Amount</b>	
Etofenprox 20%	41.80	Gal
Pyrethrin 6% + PBO	124.10	Gal
Pyrethrin 5%	104.10	Gal
Naled	84.20	Gal
Petroleum Distillates	1.29	Gal
Bti + Bsph granule	222.77	Lbs
Bti granule	192.94	Lbs
Spinosad granule	65.30	Lbs
Etofenprox 4%	0.08	Lbs
Methoprene pellets	0.00	Lbs

**7. Representative monitoring locations\* and the justification for selecting these monitoring locations**

Please see the MVCAC NPDES Coalition Monitoring Plan

**8. Evaluation of available BMPs to determine if there are feasible alternatives to the selected pesticide application project that could reduce potential water quality impacts; and**

The District evaluates specific mosquito development areas for management through non-chemical means according to the District’s Please see the [Best Management Practices for Mosquito Control in California](#)

**9. Description of the BMPs to be implemented. The BMPs shall include at a minimum:**

The Placer Mosquito and Vector Control District’s BMPs are described in the [Best Management Practices for Mosquito Control in California](#) and in the [California Mosquito-](#)

borne Virus Surveillance and Response Plan. Specific elements have been highlighted below under items a-f.

**a. measures to prevent pesticide spill;**

All pesticide applicators receive annual spill prevention and response training. Agency employees ensure daily that application equipment is in proper working order. Spill mitigation devices are placed in all vehicles and pesticide storage areas.

**b. measures to ensure that only a minimum and consistent amount is used**

Application equipment is calibrated at least annually as required by the Department of Pesticide Regulations (DPR) and the terms of a cooperative agreement with the California Department of Public Health (CDPH).

**c. a plan to educate Coalition's or Discharger's staff and pesticide applicator on any potential adverse effects to waters of the U.S. from the pesticide application;**

This is included in our pesticide applicator's annual pesticide application and safety training, continuing education programs, and/or regional NPDES Permit training programs.

**d. descriptions of specific BMPs for each application mode, e.g. aerial, truck, hand, etc.;**

The Placer Mosquito and Vector Control District calibrates truck-mounted and handheld larviciding equipment each year to meet application specifications. Supervisors review application records daily to ensure appropriate amounts of material are being used. Ultra-low volume (ULV) application equipment is calibrated for output and droplet size to meet label requirements. Aerial larviciding equipment is generally calibrated by the Contractor and verified by the District. Aerial adulticide equipment is calibrated at least annually and droplet size is monitored by the District to ensure droplets meet label requirements. Aircraft used in ULV applications are equipped with advanced guidance and drift management equipment to ensure the best available technology is being used to place product in the intended area.

**e. descriptions of specific BMPs for each pesticide product used; and**

Please see the District's Integrated Vector Management Guidelines for Mosquitoes for how and when mosquito control interventions are implemented.

**f. descriptions of specific BMPs for each type of environmental setting (agricultural, urban, and wetland).**

Please see the Best Management Practices for Mosquito Control in California.

**10. Identification of the problem. Prior to first pesticide application covered under this General Permit that will result in a discharge of biological and residual pesticides to waters of the US, and at least once each calendar year thereafter prior to the first**



**pesticide application for that calendar year, the Discharger must do the following for each vector management area:**

- a. If applicable, establish densities for larval and adult vector populations to serve as action threshold(s) for implementing pest management strategies;**

The Placer Mosquito and Vector Control District staff only applies pesticides to sources of mosquitoes that may threaten public health or quality of life. The presence of any mosquito may necessitate treatment, however higher thresholds may be applied depending on the agency's resources, disease activity, surveillance data, or local needs. Treatment thresholds are based on a combination of one or more of the following criteria, and are included in the District's Integrated Vector Management Guidelines for Mosquitoes:

- Mosquito species present
- Mosquito stage of development
- Pest, nuisance, or disease potential
- Disease activity
- Mosquito abundance
- Flight range
- Proximity to populated areas
- Size of source
- Presence/absence of natural enemies or predators
- Presence of sensitive/endangered species or habitats.

- b. Identify target vector species to develop species-specific pest management strategies based on developmental and behavioral considerations for each species;** Please see the District's Integrated Vector Management Guidelines for Mosquitoes, Best Management Practices for Mosquito Control in California and the California Mosquito-borne Virus Surveillance and Response Plan.

- c. Identify known breeding areas for source reduction, larval control program, and habitat management; and**

Any site that holds water for more than 72 to 96 hours (3 - 4 days) can produce mosquitoes depending on weather and other environmental factors. Source reduction is the agency's preferred solution, and whenever possible the District works with property owners to implement long-term solutions to reduce or eliminate the need for continued pesticide applications as described in the District's Integrated Vector Management Guidelines for Mosquitoes and the Best Management Practices for Mosquito Control in California.

- d. Analyze existing surveillance data to identify new or unidentified sources of vector problems as well as areas that have recurring vector problems.**

This is included in the Best Management Practices for Mosquito Control in California and the California Mosquito-borne Virus Surveillance and Response Plan that the agency uses. The Placer Mosquito and Vector Control District continually collects adult and larval mosquito surveillance data, dead bird reports, and sentinel chicken test results, and monitors regional mosquito-borne disease activity detected in humans, horses, birds, and/or other animals, and uses these data to help guide mosquito control activities.

**11. Examination of Alternatives. Dischargers shall continue to examine alternatives to pesticide use in order to reduce the need for applying larvicides that contain temephos and for spraying adulticides. Such methods include:**

- a. Evaluating the following management options, in which the impact to water quality, impact to non-target organisms, vector resistance, feasibility, and cost effectiveness should be considered:**
- No action
  - Prevention
  - Mechanical or physical methods
  - Cultural methods
  - Biological control agents
  - Pesticides

**If there are no alternatives to pesticides, dischargers shall use the least amount of pesticide necessary to effectively control the target pest.**

The Placer Mosquito and Vector Control District's uses the principles and practices of Integrated Vector Management (IVM) as described on pages 26 and 27 of the Best Management Practices for Mosquito Control in California, and further defined in the District's Integrated Vector Management Guidelines for Mosquitoes. As stated in item #10 above, locations where vectors may exist are assessed, and the potential for using alternatives to pesticides is determined on a case-by-case basis.

Commonly considered alternatives include: 1) Eliminate artificial sources of standing water; 2) Ensure temporary sources of surface water drain within four days (96 hours) to prevent adult mosquitoes from developing; 3) Control plant growth in ponds, ditches, and shallow wetlands; 4) Design facilities and water conveyance and/or holding structures to minimize the potential for producing mosquitoes; and 5) Use appropriate biological control methods that are available. Additional alternatives to using pesticides for managing mosquitoes are listed on pages 4-19 of the Best Management Practices for Mosquito Control in California.

Implementing preferred alternatives depends on a variety of factors including availability of agency resources, cooperation with stakeholders, coordination with other regulatory agencies, and the anticipated efficacy of the alternative. If a pesticide-free alternative does not sufficiently reduce the risk to public health, pesticides are considered, beginning with the least amount necessary to effectively control the target vector.

**b. Applying pesticides only when vectors are present at a level that will constitute a nuisance.**

Please see the District's Integrated Vector Management Guidelines for Mosquitoes, which identifies when the practices described in the California Mosquito-borne Virus Surveillance and Response Plan and Best Management Practices for Mosquito Control in California are implemented operationally.

A "nuisance" is specifically defined in California Health and Safety Code (HSC) §2002(j). This definition allows vector control agencies to address situations where even a low number of vectors may pose a substantial threat to public health and quality of life. In practice, the definition of a "nuisance" is generally only part of a decision to apply pesticides to areas covered under this permit. As summarized in the California Mosquito-borne Virus Surveillance and Response Plan, the overall risk to the public when vectors and/or vector-borne disease are present is used to select an available and appropriate material, rate, and application method to address that risk in the context of our IVM program.

**12. Correct Use of Pesticides**

**Coalition's or Discharger's use of pesticides must ensure that all reasonable precautions are taken to minimize the impacts caused by pesticide applications. Reasonable precautions include using the right spraying techniques and equipment, taking account of weather conditions and the need to protect the environment.**

This is an existing practice of the Placer Mosquito and Vector Control District, and is required to comply with the Department of Pesticide Regulation's (DPR) requirements and the terms of our California Department of Public Health (CDPH) Cooperative Agreement. All pesticide applicators receive annual safety and spill training in addition to their regular continuing education to maintain Vector Control Technician certification.

**13. If applicable, specify a website where public notices, required in Section VIII.B, may be found.**

[www.placermosquito.org](http://www.placermosquito.org)

**References**

Placer Mosquito and Vector Control District's Integrated Vector Management Guidelines for Mosquitoes Available on-line at <http://www.placermosquito.org/about-placer/public-documents/> or by calling the Placer Mosquito and Vector Control District at (916) 380-5444.

Best Management Practices for Mosquito Control in California. 2010. Available by download from the California Department of Public Health—Vector-Borne Disease Section at <http://www.westnile.ca.gov/resources.php> under the heading *Mosquito Control and Repellent Information*. Copies may be also requested by calling the California Department of Public

Placer Mosquito and Vector Control District  
Pesticide Application Plan 2016

Health—Vector-Borne Disease Section at (916) 552-9730 or the Placer Mosquito and Vector Control District at (916) 380-5444.

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MVCAC NPDES Coalition Monitoring Plan. 2011.

Placer County Mosquito and Vector Control District Boundaries

