

**STATEWIDE GENERAL 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
GENERAL PERMIT NO. CAG 990004**

Pesticide Application Plan Required 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;
2. Discussion of the factors influencing the decision to select pesticide applications for vector control;
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;
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;
5. Other control methods used (alternatives) and their limitations;
6. How much product is needed and how this amount was determined;
7. Representative monitoring locations* and the justification for selecting these locations;
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
9. Description of the BMPs to be implemented. The BMPs shall include, at the minimum:
 - a. measures to prevent pesticide spill;
 - b. measures to ensure that only a minimum and consistent amount is used;
 - 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;
 - d. descriptions of specific BMPs for each spray mode, e.g. aerial spray, truck spray, hand spray, etc.;
 - e. descriptions of specific BMPs for each pesticide product used; and
 - f. descriptions of specific BMPs for each type of environmental setting (agricultural, urban, and wetland).

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;
 - b. Identify target vector species to develop species-specific pest management strategies based on developmental and behavioral considerations for each species;
 - c. Identify known breeding areas for source reduction, larval control program, and habitat management; and
 - d. Analyze existing surveillance data to identify new or unidentified sources of vector problems as well as areas that have recurring vector problems.
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
 - PesticidesIf there are no alternatives to pesticides, dischargers shall use the least amount of pesticide necessary to effectively control the target pest.
 - b. Applying pesticides only when vectors are present at a level that will constitute a nuisance.
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.
13. If applicable, specify a website where public notices, required in Section VIII.B, may be found.