
Central Valley Regional Water Quality Control Board

18 January 2019

Mr. David De Groot
Kings River Water Quality Coalition
4866 E. Jenson
Fresno, CA 93275

APPROVAL OF THE KINGS RIVER WATER QUALITY COALITION SURFACE WATER PESTICIDE MONITORING PLAN

Thank you for your 11 January 2019 submittal of the revised Kings River Water Quality Coalition Pesticide Monitoring Proposal (Plan). The Plan was submitted in response to the conditional approval issued by the Executive Officer on 26 December 2018 that identified elements requiring revisions for final approval. The proposed pesticides and schedule for surface water monitoring were reviewed based on guidance provided in the Pesticide Evaluation Protocol (PEP), as required by section III.B.2. of the Monitoring and Reporting Program (MRP) Attachment B to Order R5-2013-0120 *Waste Discharge Requirements General Order for Growers within the Tulare Lake Basin Area that are Members of a Third-party Group* (Order).

Based on the attached staff memorandum, the revised monitoring schedule complies with the MRP requirements and I am approving the Plan. If you have any questions or comments regarding the review, or need any further information, please contact Yared Kebede at (916) 464-4828 or by email at Yared.Kebede@waterboards.ca.gov

Sincerely,

Original signed by

Patrick Pulupa
Executive Officer

Enclosure: Staff Review of Monitoring Plan Proposal

Central Valley Regional Water Quality Control Board

TO: Susan Fregien
Senior Environmental Scientist
Irrigated Lands Regulatory Program

FROM: Yared Kebede
Environmental Scientist
Irrigated Lands Regulatory Program

DATE: 17 January 2019

SUBJECT: REVIEW OF THE KINGS RIVER WATER QUALITY COALITION SURFACE WATER
PESTICIDE MONITORING PLAN FOR 2019

The Central Valley Water Board received the Kings River Water Quality Coalition (Coalition) revised Pesticide Monitoring Proposal (Plan) on 11 January 2018. The Plan was submitted in response to the conditional approval issued by the Executive Officer on 26 December 2018 that identifies elements requiring revisions for final approval.

Staff reviewed the Plan to determine compliance with requirements pursuant to section III.B.2. of the Monitoring and Reporting Program (MRP) Attachment B to Order R5-2013-0120 Waste Discharge Requirements General Order for Growers within the Tulare Lake Basin Area that are Members of a Third-party Group (Order), as well as the Pesticide Evaluation Protocol (PEP). Overall, the proposed monitoring plan meets the requirements of the Order, and staff recommends approval of the Plan. A summary of the main elements of the proposed monitoring plan is provided below.

Monitoring Sites, Parameters, and Schedule

The constituents selected for monitoring (52 pesticides) were determined using three years of Pesticide Use Report (PUR) data (2014-2016), as required by the PEP. Pesticides that were not applied within the Coalition area were removed from consideration. Degradates were then added to the list of pesticides under consideration and pesticides with the same toxicant in water were grouped for evaluation of the aquatic life and human health risk ratios.

Pesticides applied within the sub-watershed were excluded from monitoring based on factors including environmental fate and transport properties such as high volatility, calculation of an aquatic life risk ratio of less than 50 or human health risk ratio of less than 10, and no commercially available analytical methods. No exclusions were made based on monitoring results.

Staff Recommendations

Staff recommends approval of the Coalition's 2019 Pesticide Monitoring Proposal (Table 1).

The Coalition corrected all of staff recommendations in the revised Plan:

- Clothianidin applications that occur in the same month as a parent pesticide and degradate products were added together.
- The months proposed for clothianidin, dichlorovos, isoxaben and thiametoxam monitoring were corrected.
- The monitoring data (CEDEN worksheet) submitted in the Pesticide Analysis Workbook includes the name of the monitoring stations.

Table 1. KRWQC Revised 2019 Monitoring Schedule

Chemical Name	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2,4-D acids & salts	X	X										
ACETAMIPRID							X	X				
ATRAZINE					X	X						
AZOXYSTROBIN			X	X								
BIFENTHRIN						X	X	X				
CARBARYL			X	X	X	X						
CHLOROPICRIN	X	X									X	X
CHLOROTHALONIL			X			X	X	X	X			
CHLORPYRIFOS							X	X	X			
CLOTHIANIDIN				X	X	X	X	X		X		
COPPER	X		X	X							X	
CYFLUTHRIN				X	X	X	X					
CYPERMETHRIN					X	X	X					
CYPRODINIL		X			X	X	X					
DELTAMETHRIN					X							
DIAZINON	X				X							
Dichlorvos (DDVP)					X			X				
DIMETHOATE					X	X	X	X				
DIURON	X	X										X
ESFENVALERATE	X											
ETHALFLURALIN				X								
FENPROPATHRIN				X	X	X		X	X			
FLUMIOXAZIN	X	X									X	X
GLYPHOSATE		X		X	X	X	X					
HEXAZINONE												X
IMIDACLOPRID				X	X	X	X					
ISOXABEN	X	X	X									X
LAMBDA-CYHALOTHRIN			X	X	X	X	X					
LINURON					X				X	X		
MALATHION						X	X	X	X			
MANCOZEB			X	X	X							
METHIDATHION						X	X					
METHOMYL		X	X			X	X					
NORFLURAZON		X										
ORYZALIN	X	X	X									X
OXAMYL							X	X				
OXYFLUORFEN	X	X									X	X
PARAQUAT DICHLORIDE		X	X							X		
PENDIMETHALIN	X	X	X									X
PERMETHRIN				X	X	X	X		X			
PHORATE			X	X								
PROMETRYN				X			X					X
PROPICONAZOLE		X	X									
PYRACLOSTROBIN			X	X	X	X	X					
PYRETHRINS				X	X							
PYRIDABEN			X	X		X	X					
RIMSULFURON	X	X										
SIMAZINE		X	X									
TEBUCONAZOLE			X	X	X	X						
THIAMETHOXAM							X					
TRIFLUMIZOLE				X	X							
TRIFLURALIN		X	X	X	X							