

Lily Bulb Order Enrollee Help Guide

The North Coast Water Board Lily Bulb Order (Order R1-2026-0035) requires Enrollees to manage discharges that may reach surface or groundwater through implementing management practices, monitoring, and adaptive management. This guide outlines the framework and Enrollee responsibilities under the Order.

Lily Bulb Order At a Glance

Enroll in Order

Complete an eNOI either Individually or through an approved Coalition by **March 1, 2027***

*The eNOI and approved Coalition can be found on the North Coast Water Board's Lily Bulb webpage



Implement Management Practices

Implement management practices on lily bulb Fields, Farm Areas, and Appurtenant Agricultural Roads to minimize the discharge of pesticides, sediment, and nutrients. Enrollees may refer to **Attachment B: Management Practices** for a list of applicable practices



Establish and/or Maintain Streamside Areas

Implement Streamside Area buffer widths and requirements. See **p. 72** of the Order for requirements and **p. 10** of **Attachment D: Methodologies and Procedures** for additional guidance



Monitor and Report

Conduct, either individually or through a Coalition, the following water quality monitoring in accordance with **Attachment A: Monitoring and Reporting Program**:

Surface Water

Downstream tributary stations monitored for dissolved copper and pesticides

Groundwater

One representative well per Enrollee monitored for nitrate and pesticides

All Drinking Water Wells on enrolled parcels monitored for nitrate and pesticides



Implement Adaptive Management

Implement the Adaptive Management Program which requires additional practices to meet the Order's Receiving Water Limitations when Water Quality Benchmarks are exceeded. See **p. 75** of the Order for Adaptive Management requirements. See also **p. 3** of this Enrollee Help Guide for the Surface Water Adaptive Management Program and **p. 4** for the Groundwater Adaptive Management Program.

This Guide is designed to assist in implementing the Lily Bulb Order. In the event of any conflict with the Lily Bulb Order, the language of the Order controls. Staff may update this Guide in the future to further assist implementation or provide clarifications.

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Surface Water Monitoring Program

Surface water monitoring under the Lily Bulb Order is timed to the lily bulb growing season, which runs from fall planting through the following summer. Because different pesticides are applied at different points in that cycle, each of the three annual monitoring events targets the constituents most likely to be discharging in that window. And because lily bulb fields rotate to other uses between plantings, adaptive management follows the field that was treated for the applicable pesticide before or during the relevant Monitoring Event. The visual below summarizes the three sampling periods, the corresponding pesticide application windows, and how adaptive management applies to fields as a result. **See p.4** in Attachment A: Monitoring and Reporting Program for details on the Surface Water Monitoring Program.

		Winter Sampling		Spring Sampling						Fall Sampling		
Constituent and Month Applied	J	F	M	A	M	J	J	A	S	O	N	D
Copper												
Imidacloprid												
Diuron												
Ethoprop												
Constituents to Sample	Copper and Diuron*		Copper, Imidacloprid and Diuron						Copper, Imidacloprid and Ethoprop			
Fields subject to Adaptive Management when exceedance occurs	Current cultivation fields tributary to station		Current cultivation fields tributary to station						For Copper and Imidacloprid: Recently harvested fields tributary to station For Ethoprop: Current cultivation fields tributary to station			

Pesticide Application Color Shading Key:

Application 'shoulder months'						Main Application Period						

* Imidacloprid sampled during the Winter Sampling event when tributary Fields are in Adaptive Management for imidacloprid

Parameter	Winter Event (Feb–Mar)	Spring Event (Apr–Jun)	Fall Event (Oct–Dec)	Samples/Yr
Dissolved Copper	•	•	•	3
Diuron	•	•		2
Imidacloprid	○	•	•	2–3
Ethoprop			•	1

• = monitored at this event. ○ = monitored only when fields tributary to the monitoring station are in Adaptive Management for that constituent.

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Surface Water Adaptive Management

This section describes the Adaptive Management Program in response to Water Quality Benchmark exceedances in Surface Water Monitoring. See p. 75 of the Order for Adaptive Management requirements

Monitor Surface Water. Water Quality Benchmark Exceeded?

YES

NO

Continue routine monitoring

TIER 1 ADAPTIVE MANAGEMENT*

- Option 1:** Grower-implemented WQMP (Treat and Control, Watercourse Setback, or meet Pesticide Application Performance Standard)
- Option 2:** Certified WQMP

Monitor Surface Water. Benchmark Exceeded?

YES

NO

Maintain **Tier 1 Practices** and continue routine monitoring

TIER 2 ADAPTIVE MANAGEMENT

Implement Certified Water Quality Management Plan (WQMP)

Monitor Surface Water. Benchmark Exceeded?

YES

NO

Maintain **Tier 2 Practices** and continue routine monitoring

VIOLATION OF RECEIVING WATER LIMITATIONS

Enrollee may be subject to discretionary enforcement

*Certain fields identified in Table II.2 on p. 76 of the Order enter Tier 1 Adaptive Management upon enrollment.

Groundwater Adaptive Management

This section describes the Adaptive Management Program in response to groundwater monitoring. See p. 82 of the Order for Adaptive Management requirements. Note that this flowchart provides a framework based on nitrate concentrations. For a full list of constituents and groundwater monitoring requirements, see Section III.B of Attachment A: MRP



Nitrate above 10 mg/L?

Notify Drinking Water Well users

Submit Hydrogeological Evaluation of Groundwater Impacts

Submit Groundwater Protection Plan

Nitrate between 5-10 mg/L?

Monitor annually
If statistically increasing trend over three years

Certified Irrigation and Nutrient Management Plan

Nitrate below 5 mg/L?

Reduce monitoring to every three years