
Central Valley Regional Water Quality Control Board

22 June 2026

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***NOTICE OF APPLICABILITY OF GENERAL ORDER NO. R5-2015-0012-068, REVISION 1
IN-SITU REMEDIATION AND DISCHARGE OF TREATED GROUNDWATER TO LAND,
NUTRIEN AG SOLUTIONS INC., 3348 CLAUS ROAD, MODESTO, STANISLAUS COUNTY***

Nutrien Ag Solutions Inc. (Nutrien) submitted a Notice of Intent (NOI), dated 16 April 2026, requesting coverage General Order No. R5-2015-0012, *General Waste Discharge Requirements for In-situ Groundwater Remediation and Discharge of Treated Groundwater to Land* (General Order) for the facility located at 3348 Claus Road in Modesto (the Site). The NOI was submitted to receive regulatory coverage to implement the scope of work described in the *Pilot Test Work Plan* (Workplan). Central Valley Regional Water Quality Control Board (Central Valley Water Board) staff concurred with the Workplan on 9 September 2025.

Upon review of the Workplan and NOI, staff has concluded that this project qualifies for coverage under the General Order. Therefore, the Central Valley Water Board issues this Revised Notice of Applicability, and Monitoring and Reporting Program, Order No. R5-2015-0012-068, Revision 1 (the MRP) for the Site. MRP No. R5-2015-0012-068, Revision 1 is attached.

All requirements contained in the General Order and those listed in the General Information section below are applicable to your project. You are assigned Order No. R5-2015-0012-068, Revision 1.

Project Location:

The project is at 3348 Claus Road, Modesto as shown in Figure 1 (Site). The Stanislaus County Assessor's Parcel Number (APN) is 014-014-015-000, and is within Township 3S, Range 10E, Mount Diablo Baseline and Meridian.

Project Description:

Nutrien has been monitoring fertilizers and pesticide-related compounds in the soil and groundwater at the Site located along the urban-rural fringe of Modesto. Nutrien and its predecessors have been operating at the Site since 1993 and monitoring groundwater

conditions since about 2010. Other owners had similar business operations at the Site between 1949 and 1993, prior to Nutrien's ownership. The primary Chemicals of Concern (COCs) are 1,2,3-trichloropropane (1,2,3-TCP), 1,2-dichloropropane (1,2-DCP), and Nitrate. The pilot test is proposed to assess the feasibility of in-situ remediation of the COCs, specifically 1,2,3-TCP. As evident by substantial monitoring data, groundwater in monitoring wells MW-27A and MW-29A consistently have 1,2,3-TCP detections above the Maximum Contaminant Level (MCL) and serve as suitable locations to conduct a pilot test.

As described in the approved Workplan, this pilot test proposes injecting a mixture of Newman Zone OS, Newman Zone 55, Newman Zone QR75, and microbial culture CPD-2 into the subsurface to reduce concentrations of Nitrate and 1,2,3-TCP. Approximately 9,000 gallons of injection solution and chase water are expected to be used for the pilot test, in total, and introduced into the subsurface via direct-push temporary borings. The pilot test is intended to be a one-time injection to determine feasibility of this remedial strategy. If direct-push borings are deemed infeasible in the field, injection wells will be constructed to a depth of 90 feet below ground surface (bgs) and screened below 70 feet bgs, which places the screened interval in the first water-bearing zone. Three injection wells will be installed upgradient of MW-27A and MW-29A, each, for a total of six injection wells.

Contingency Plan:

The contingency plan described in the NOI identifies monitoring parameters in the compliance wells which could be affected by sub-surface injections: Chloride, Dissolved Iron, Dissolved Manganese, Alkalinity, pH, Total Organic Carbon, Electrical Conductivity, and Total Dissolved Solids (collectively, Contingency Parameters). Nutrien proposes enacting the contingency plan if either concentration of a Contingency Parameter exceeds background by more than 20 percent, or if a Contingency Parameter exceeds the water quality objective. Should the Contingency Plan be triggered, Nutrien shall notify Central Valley Water Board staff as soon as practicable and resample the well that had exceedance within 30 days. Should the resampling event confirm the initial exceedance, Nutrien will implement Step 2 of the Contingency Plan and sample the nearest downgradient supply well – the contingency plan identifies MDW-11, MDW-12, and MDW-13 as nearby supply wells. If water quality objectives are exceeded in a supply well, Nutrien will notify Central Valley Water Board staff and confer regarding next steps. Possible next steps identified in the Contingency Plan include monthly monitoring of affected supply well(s) and evaluating treatment options.

If corrective action is needed to restore a Contingency Parameter to acceptable levels in Site monitoring wells, Nutrien will conduct performance monitoring after any selected remedy is enacted. Should the Contingency Parameters remain above the response level after taking corrective action, Nutrien shall coordinate with Central Valley Water Board staff to further address the exceedance.

On 6 April 2021, Nutrien circulated a fact sheet describing pilot test activities conducted at the Site in 2021 under General Order No. **R5-2015-0012-068** and provided interested parties with 30 days to submit comments. No comments were received by 6 May 2021, or as of the date of this letter. The proposed pilot test is of materially similar specification and intent, and is covered under this *Revised Notice of Applicability*, and the attached *Monitoring and Reporting Program Order No. R5-2015-0012-068, Revision 1*.

General Information:

1. The project will be operated in accordance with the requirements contained in the General Order and in accordance with the information submitted in the NOI.
2. The required annual fee (as specified in the annual billing you will receive from the State Water Resources Control Board) shall be submitted until this Notice of Applicability is officially revoked.
3. Injection of materials other than Newman Zone OS, Newman Zone 55, Newman Zone QR75, or APTIM CPD-2 into the subsurface is prohibited.
4. Failure to abide by the conditions of the General Order could result in an enforcement action as authorized by provisions of the California Water Code.
5. The project will implement the final contingency plan as summarized above, within 30 days of it being triggered.
6. The Discharger shall comply with the attached Monitoring and Reporting Program, Order No. R5-2015-0012-068, *Revision 1* (MRP), and any revisions thereto as ordered by the Executive Officer.

If you have any questions regarding this matter, please contact Mr. Jeff Tierney at (916) 464-4680 or at Jeff.Tierney@Waterboards.ca.gov.

for PATRICK PULUPA
Executive Officer

Attachments: Monitoring and Reporting Program No. R5-2015-0012-068, *Revision 1*

cc: Stanislaus County Dept. of Environmental Resources, Modesto
Annie Staehlin, Rubik Environmental, Reno, NV
Shane Fitch, Rubik Environmental, Reno, NV

Figure 1: Site Vicinity Map

