

2022 Irrigation and Nutrient Management Meeting

Overview of Ag Order 4.0 Requirements



Presentation Outline

Nitrogen Discharges. Groundwater Protection.

Pesticide Discharges. Surface Water Protection.

Upcoming requirements.

Groundwater Protection Requirements



- Fertilizer Nitrogen Application Limits
- Nitrogen Discharge Limits
 - Monitoring and Reporting: TNA and INMP
 - Groundwater Phases
- Third Party Program. Alternative Compliance Pathway, Targets and Time Schedules



Fertilizer Nitrogen Application Limits

- Fertilizer Nitrogen Applied to Each Crop
 - Pounds Nitrogen/Crop Acre
- Third-Party Members
- Fertilizer Nitrogen Targets
- Adjusted Time Schedule



Fertilizer Nitrogen Application Targets and Limits

Crop	2023 Limits	2025 Limits
	OR 2024 Third-Party Targets	OR 2026 Third-Party Targets
Lettuce	275	255
Broccoli	295	280
Spinach	245	230
Cauliflower	310	285
Celery	360	330
Strawberry	320	295
All Other Crops	500	480

(Pounds of Nitrogen/Crop-Acre)

Nitrogen Discharge to Groundwater Targets and Limits

- All Growers have Targets and Limits
- Total of Nitrogen Discharge From All Crops Grown On Ranch Per Year (Pounds of Nitrogen/ Ranch-Acre)
- **(Nitrogen Applied) – (Nitrogen Removed) = Nitrogen Discharge**
 - Nitrogen Removal Coefficient
 - Formulas

Third-Party Program Members have Targets



Nitrogen Discharge to Groundwater Targets and Limits

Compliance Pathway	Third-Party: 2024 Targets	Third-Party: 2026 Targets	Third-Party: 2028 Targets	Third-Party: 2051 Targets
A – R = N Discharge (A includes A_{IRR})	500	400	300	Groundwater Protection Area Targets (To be developed by 3P-ACP, approved by EO)
A = R (A does not include A_{IRR})	A=R	A=R	A=R	
A – R = N Discharge (A does not include A_{IRR})	300	200	100	

Pounds Nitrogen/Ranch-Acre

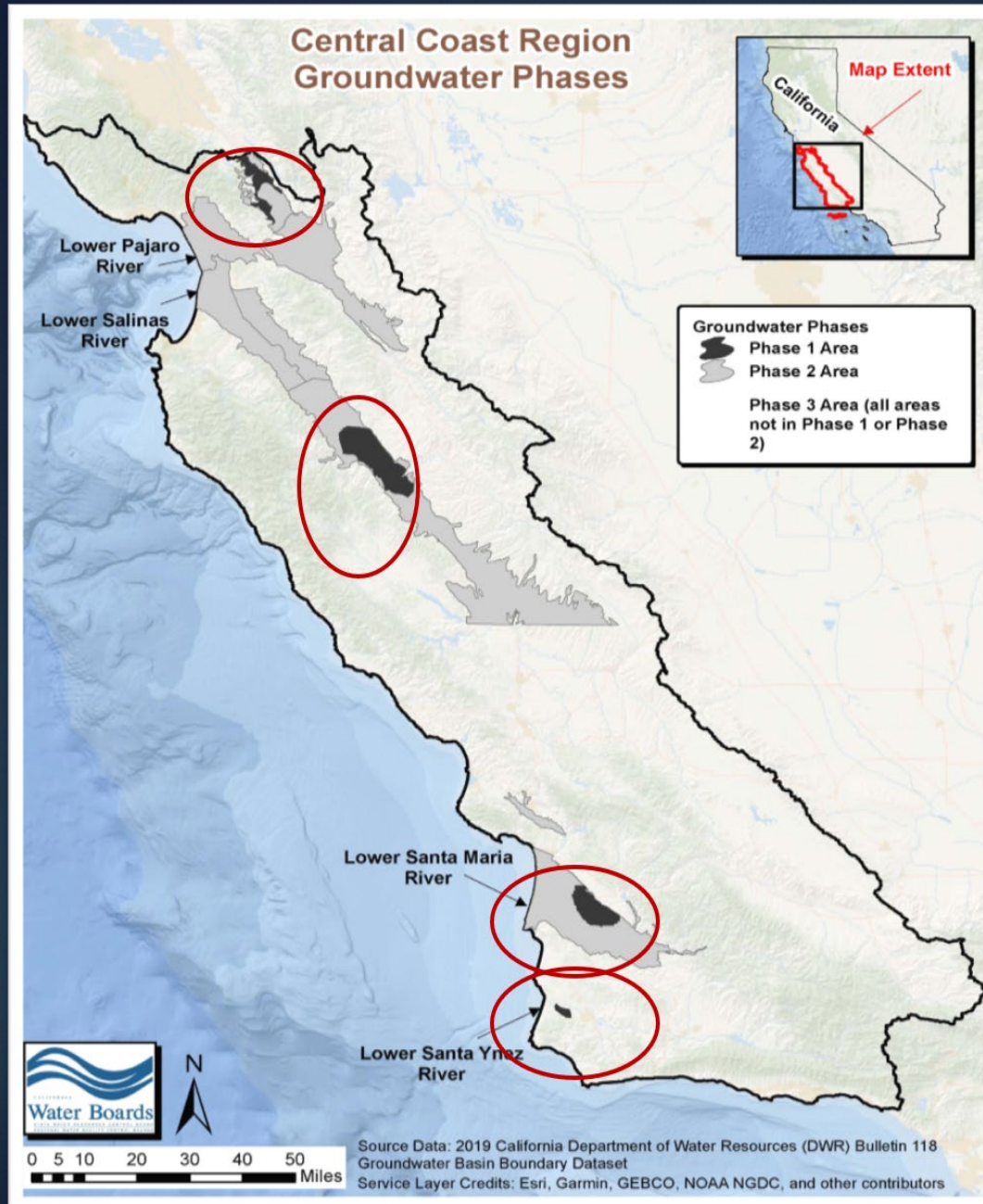


Incentives for Reducing Nitrogen Discharge to Groundwater

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- Pump and Fertilize. Nitrogen in Irrigation Water
- “Discounts” for Reducing **Nitrogen Applied**
 - Organic Fertilizers
 - Compost
- “Credits” for Increasing **Nitrogen Removed**
 - Cover Crops, High Carbon Amendments, Woody Mulch

Groundwater Phase Areas



Monitoring and Reporting Based on Ranch Phase Area

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- Phasing In of Requirements using Groundwater Phase Areas
- Eventually, all Growers must Comply with all Requirements
- Displayed on Ranch eNOI

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IRRIGATED LANDS REGULATORY PROGRAM - NOTICE OF INTENT - GENERAL RANCH INFO

NOTE: NAVIGATING AWAY FROM THIS FORM BEFORE CLICKING THE [ADD THIS RANCH](#) BUTTON MAY CAUSE YOU TO LOSE ALL ENTERED DATA

Name of Operation: **Test Operation (AW9999)** - [VIEW OPERATION FORM](#)

Ranch Name: (Global ID: AGL020027811)

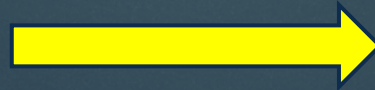
GW Phase Area: 1
SW Priority Area: 1

Section VII: Ranch Status

Recordkeeping and Reporting. Irrigation and Nutrient Management Plan (INMP)

TNA Report

- Collect:
 - Nitrogen Applied to Each Crop
 - Fertilizers, Nitrogen in Irrigation Water
 - Irrigation Information (estimated)



INMP Summary Report

- Collect:
 - Nitrogen Applied to Each Crop
 - Fertilizers, Nitrogen in Irrigation Water
 - Irrigation Information (measured)
 - **Nitrogen Removed**

- ✓ This data is used to assess nutrient and irrigation management practices with the goal of achieving discharge targets and limits

Irrigation and Nutrient Management Plan – Phasing Timeline

Ranches	TNA Record-keeping Period	TNA Report Due March 1	INMP Record-keeping Period	INMP Summary Report Due March 1
Required per Ag Order 3.0	2021 2022	2022 2023	-	-
Groundwater Phase Area 1	-	-	Beginning 2023	Beginning 2024
Groundwater Phase Area 2	2023 2024	2024 2025	Beginning 2025	Beginning 2026
Groundwater Phase Area 3	2023 2024 2025 2026	2024 2025 2026 2027	Beginning 2027	Beginning 2028

Overview.

Groundwater Requirements

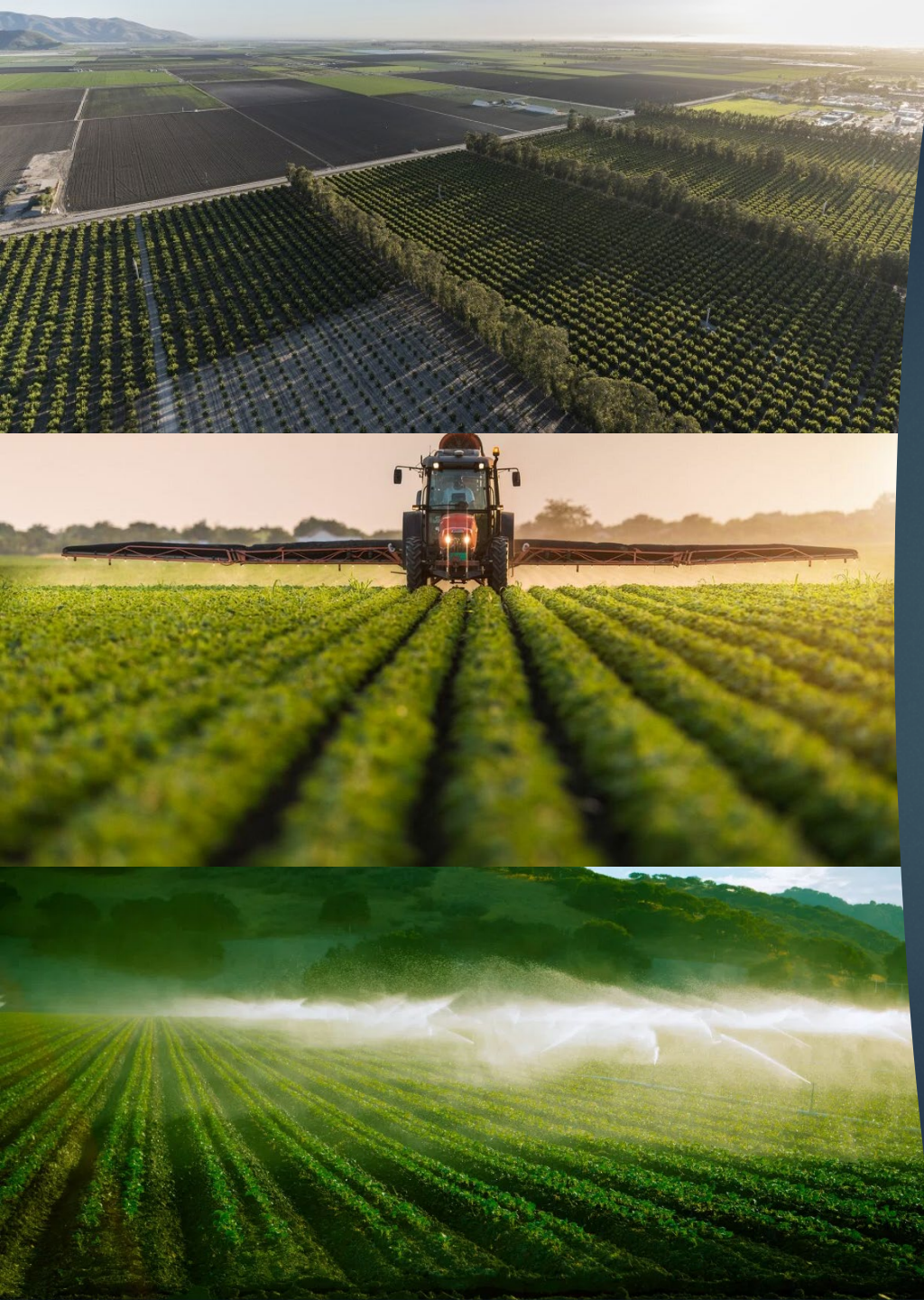
1. TNA and INMP reports: records reported by crop
2. A – R targets and limits due dates: independent of reporting (TNA, INMP)
3. Reporting begins based on phase area, ranch location
4. Third party members, targets and more time to comply

Pesticide Discharges. Surface Water Protection Requirements

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- Surface Receiving Water Limits
- Timeline
 - First limits 2032





Surface Water Protection: Monitoring and Reporting

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- Surface Receiving Water Quality Trends, continuing
- Follow-Up Surface Receiving Water Implementation
 - Priority Areas
 - Individual Growers Begin a Year Early
- Ranch-Level Surface Discharge

Priority Area

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- Displayed on ranch eNOI

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Name of Operation: **Test Operation (AW9999) - [VIEW OPERATION FORM](#)**

Ranch Name: (Global ID: AGL020027811) **GW Phase Area: 1
SW Priority Area: 1**

Section VII: Ranch Status

Year 2022 Requirements

All Ranches

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- Submit ACF: by March 1
- Sample On-farm Domestic Wells and Primary Irrigation Well
 - Sample: March 1 - May 31. Report: by July 31
- Submit Surface Receiving Water Quality Trends Work Plan by July 1

Ranches required to submit TNA under Ag Order 3.0

- Submit TNA Report for 2021: by March 1, 2022

2023- TNA and INMP reminders

Ranches	TNA Record-keeping Period	TNA Report Due March 1	INMP Record-keeping Period	INMP Summary Report Due March 1
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Groundwater Phase Area 3	2023 2024 2025 2026	2024 2025 2026 2027	Beginning 2027	Beginning 2028

Resources Available

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For Information about Third-Party Program Services Contact:

Approved Third-Party Program Administrator:

Central Coast Water Quality Preservation, Inc.

(Preservation, Inc.)

support@ccwqp.org

831-240-9533

Thank you

**CENTRAL COAST WATER BOARD
IRRIGATED LANDS PROGRAM
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