NEW NITRATE CONTROL PROGRAM
COMING TOGETHER TO RESOLVE THE SAFE DRINKING WATER CHALLENGE

Challenges and Choices
A new Nitrate Control Program is now in place in the Central Valley to address historic nitrate problems, which have left some communities that rely on groundwater without a source of safe drinking water. The program includes twin imperatives for the most affected areas of the Valley:
- Providing safe drinking water to affected homes and communities as quickly as possible.
- Managing nitrate discharges to reduce or eliminate impacts to groundwater.

The program is being administered by the Central Valley Regional Water Quality Control Board (Regional Board).

The Nitrate Control Program will begin in Priority 1 groundwater basins that include: Kaweah, Turlock, Chowchilla, Tule, Modesto, and Kings basins. Once regulated dischargers receive their Notice to Comply from the Regional Board in April 2020, they will have a choice between two compliance pathways:
- Pathway A: Proceeding under an individual permit. (See page 4 for details.)
- Pathway B: Joining a Management Zone. (See pages 2-4 for details.)

Management Zones:
A New Alternative Compliance Choice
Joining a Management Zone is an alternative means of nitrate compliance that offers regulated dischargers something they have never had before:
- An opportunity to work cooperatively to manage nitrate discharges more cost-effectively and to provide safe drinking water to adversely affected residents.

Timeline at a Glance: Within nine months, dischargers choosing Pathway B must develop a Preliminary Management Zone Proposal which includes an Early Action Plan to provide safe drinking water. From there, implementation of the Early Action Plan must begin within two months.

Management Zone Benefits:
- Ensure safe drinking water to those who need it.
- Avoid “going it alone” under demanding individual permit (Pathway B).
- Maintain local control and more flexibility than under past regulations.
- Adapt management to local conditions.
- Share resources, funding, and knowledge.

1 The new Nitrate Control Program is contained within Basin Plan Amendments for Sacramento and San Joaquin River basins and Tulare Lake Basin, as approved by the Central Valley Water Quality Control Board in 2018 and State Water Resources Control Board in 2019.
2 Regulated dischargers are holders of Waste Discharge Requirements (WDR) permits for nitrate.
Protect water resources over the long-term.

**Pages 2-3 Inside Banner Heading UNDERSTANDING MANAGEMENT ZONES**

**Lead-in Text Page 2:** Whether you are a regulated discharger or other interested party, the new Nitrate Control Program regulations include many new requirements, challenges and opportunities that will require swift and unprecedented cooperation, leadership, outreach, and enterprise among numerous people, including growers, industrial producers, water suppliers, cities, counties, and community, Tribal, and environmental interests.

Here are facts and guideposts for navigating the new program successfully.

**What is a Management Zone?**
A Management Zone is a formally defined area with specific and hydrologically contiguous boundaries where a formal contractual arrangement among regulated dischargers will be required to deliver safe drinking water and to manage nitrate.

Flexibility, local discretion, and cooperation are hallmarks of the Management Zone approach. Through this choice, the new Nitrate Control Program recognizes diverse demographic, climate, hydrologic, and geologic conditions and allows local interests to determine the best steps for providing safe drinking water, managing nitrate discharges, and safeguarding water resources and the economy.

**Threshold Decisions When You Receive Your Notice to Comply**
1. Don’t wait. You must decide quickly whether to go it alone or join with others. Key considerations: Conduct a realistic assessment of your resources and capabilities. What is the nature of your discharge? Will you be able to comply as an individual regulated discharger? (See Page 4 for more details about Pathway A.)
2. If not, consider whether joining a Management Zone is the best path for you. Key considerations: Determine who else is working on nitrate management issues in your area. Reach out to them and explore the choices and issues. Will it be possible to work cooperatively to meet the program requirements?
3. Seek out resources to help with your decision. Contacts are being developed for each of the Priority 1 basins and are listed at cvsalts.info; click on the brown box “Join a Management Zone for Nitrate Compliance,” which contains pertinent information about the Nitrate Control Program.

**Graphic box:** **Deadlines:**
Tight timelines lie ahead for regulated dischargers forming Management Zones. Each of these steps is subject to Regional Board and public review.

- Within 9 months: Submit Preliminary Management Zone Proposal which includes an Early Action Plan to provide safe drinking water to Regional Board.
- Within 11 months: Begin Early Action Plan for provision of drinking water to affected people and communities within the Management Zone.
- Within 16 months: Submit Final Management Zone Proposal.
- Month 17 and beyond: Continue to implement Early Action Plan while also developing Management Zone Implementation Plan for Regional Board approval.
Lead-in Text Page 3: The following immediate activities are needed to form the foundation for your Preliminary Management Zone Proposal, due within nine months.

1. **Identify stakeholders and participants**, including those who will benefit, who must cover costs, or who can help contribute to solutions. Potential participants:
   - Regulated dischargers and their representatives.
   - City, county, and other government representatives, and entities that manage water supplies, such as municipalities, utilities, and small water agencies.
   - Community, Tribal, civic, and environmental justice leaders and voices.
   - Potential substitute drinking water locations, such as convenience marts and churches.

2. **Delineate the boundaries of the Management Zone.**
   - The boundary of a Management Zone is determined by regulated dischargers and local stakeholders and submitted in a Preliminary Management Zone Proposal to the Regional Board. In addition to hydrogeology, relevant considerations include institutional boundaries, land uses, groundwater quality, sources of supply such as recycled water and stormwater, and water resources management strategies.

3. **Characterize the Management Zone.**
   - Compile existing data on nitrate conditions and discharges, hydrogeology, and drinking water supplies and users to include in the Preliminary Management Zone Proposal and inform management actions.

4. **Identify populations and geographies where people will require delivery of clean drinking water.**
   - Identify areas where nitrate in groundwater exceeds safe drinking water standards. Consider who may be getting their drinking water from these areas, including households, businesses, and small drinking water supply systems, and those already served by replacement water stations / kiosks.

5. **Begin discussions immediately on how you will share actions, costs, and decision-making.**
   - Completing the Preliminary Management Zone Proposal (including the Early Action Plan) will involve numerous cooperative decisions, data collection, and technical evaluation. Sharing costs and forming a Management Zone will require decisions around governing structures, decision processes, and cost allocation. These can be thorny issues that will take time, creativity, and collaboration to resolve. Some practical considerations:
     - Identify early who can launch the effort, become the convener, or constitute a steering committee. Who is best equipped to do outreach? Host public meetings? Engage hydrogeologic and other experts?
     - Governance, leadership, and decision-making structures will be needed.
     - A contracting entity or mechanism will be necessary, such as a Joint Powers Authority or Memorandum of Understanding with an existing entity.
     - Fair means of cost allocation must be devised.

**Two Pilot Management Zones**

To help establish Management Zone models, two grant-funded pilot formations have been completed. They provide useful lessons about the challenges and benefits of moving forward swiftly, collaboratively, and decisively. One is in the Turlock Groundwater Subbasin. The other involves the Alta Irrigation District and Kings River East SGMA GSA within the Kings Groundwater Subbasin.

The two pilots have developed Preliminary Management Zone Proposals, which include Early Action Plans, and have created informative Guidance Documents to assist others in Priority 1 Basins in forming Management Zones. The Guidance Documents can be accessed here. [Add hyperlink]
Keep in mind the public and longstanding nature of this work. Transparent procedures and a reliable record-keeping system should be maintained.

Widespread outreach and inclusivity will be essential.

**Components of Nitrate Control Program Deliverables**

**Preliminary Management Zone Proposal**

- Identifies participating regulated dischargers.
- Documents outreach to other regulated dischargers who may want to participate.
- Characterizes groundwater quality to identify where high nitrate levels may be affecting residents who rely on groundwater as a drinking water source.
- Assesses current treatment and control efforts.
- Includes an Early Action Plan to provide immediate source of safe drinking water to those with high nitrate levels in their drinking water wells.

**The Early Action Plan**

The Early Action Plan is included as part of the Preliminary Management Zone Proposal and identifies how a Management Zone will provide short-term safe drinking water supplies to households and communities affected by high nitrate levels in their groundwater source. The Management Zone must begin implementation no later than 60 days after submittal to the Regional Board. Key tasks:

- **Engagement**
  - Conduct outreach to affected residents and communities, elected officials, and community leaders during development and implementation of the Early Action Plan.

- **Program Development**
  - Identify potentially affected residents and ensure they have the opportunity to participate in proposed solutions.
  - Develop specific actions and a schedule for providing interim replacement drinking water to affected residents within the Management Zone. Elements to consider:
    - Types, siting, and design of facilities such as filling stations or vendor-supplied facilities.
    - Alternatives such as home bottled water delivery or point-of-use treatment.
    - Operational agreements with property owners.
    - Participation criteria and processes such as providing containers.
    - Well testing.
  - Develop an outreach program for use during plan implementation.
  - Establish a process to coordinate with non-dischargers during implementation.

- **Funding**
  - Establish a funding mechanism to implement the plan.

**Highlight Box: Pathway A: Individual Permitting**

Pathway A provides that a regulated discharger or groups of dischargers subject to a single WDR may opt to comply under individual permit requirements that:

- Define requirements to protect shallow groundwater.
- Establish five discharge categories and associated compliance requirements.
- Establish trigger levels for consideration.
- Ensure that those impacted by nitrates have safe drinking water, as applicable.

**Pathway A timeline at a Glance:** Within 11 months, submit Notice of Intent with (a) initial nitrate assessment as required per Nitrate Control Program regulations; and (b) Early Action Plan and/or
Alternative Compliance Project (as needed); OR, switch to Pathway B and support the Management Zone that has been proposed in their area.

**Highlight Box: SGMA: The Sustainable Groundwater Management Act**
Under California’s historic groundwater statute, Groundwater Sustainability Agencies (GSAs) recently formed to regulate groundwater management. SGMA represents the current generation of regulatory problem-solving at the local level. In some cases, though not all, GSAs may be an appropriate vehicle for the work of the Nitrate Control Program. Even if not the proper vehicle, information and governance and management strategies under SGMA may be useful for informing how Management Zones are formed and implemented.

**Helpful Resources** area available at cvsalts.info